

ASET

INTERNATIONAL ENERGY
TRAINING ACADEMY



COURSE DIRECTORY 2025

INDUSTRY LEADING SKILLS TRAINING

for the Construction, Energy, Engineering, Environmental,
Health & Safety, Marine and Renewable Sectors



KNOWLEDGE



KNOW-HOW



UNDERSTANDING



SKILLS



COMPETENCE

-  **ASSESSOR & VERIFIER TRAINING**
-  **COMPEX HAZARDOUS AREA TRAINING**
-  **DIGITAL ONLINE LEARNING**
-  **ELECTRICAL ENGINEERING TRAINING**
-  **EMERGENCY RESPONSE TRAINING**
-  **HEALTH, SAFETY & ENVIRONMENT TRAINING**
-  **INSTRUMENTATION AND CONTROL**
-  **MARINE OPERATIONS TRAINING**
-  **MECHANICAL ENGINEERING TRAINING**
-  **PROCESS OPERATIONS TRAINING**
-  **RENEWABLES ENERGY TRAINING**
-  **SCAFFOLDING TRAINING**

CONTENTS

5	LOCATION MAPS
6	COURSE BOOKINGS AND INFORMATION
6	HOW TO BOOK
6	DISCLAIMER
6	PAYMENT FOR COURSES
7	CANCELLATION POLICY
8	ACCOMMODATION
8	ASET PRICE PROMISE
8	WELFARE AND LEARNING SUPPORT FACILITIES
9	WHO WE ARE...
10	WHAT WE DO...
10	QUALITY ASSURED
12	HISTORY
12	INDUSTRY AWARDS
13	TRAINING FACILITIES
	● ASSESSOR & VERIFIER TRAINING
27	ASSESS WORKPLACE COMPETENCE USING DIRECT AND INDIRECT METHODS: UNIT L AND D9DI SQA SCQF LEVEL 8
28	INTERNALLY MONITOR AND MAINTAIN THE QUALITY OF WORKPLACE ASSESSMENT: UNIT L AND D11 SQA SCQF LEVEL 8
	● COMPLEX HAZARDOUS AREAS TRAINING
30	COMPLEX 5 DAY EX01 – EX04 COMPETENCE BASED COURSE
31	COMPLEX RECOGNISED PRACTITIONERS PROGRAMME (EX01RPP - EX04RPP)
32	COMPLEX 3 DAY COMPETENCE BASED COURSE: ELECTRICAL AND INSTRUMENTATION EQUIPMENT IN EXPLOSIVE DUST ATMOSPHERES
33	COMPLEX 3 DAY MECHANICAL COMPETENCE BASED COURSE UNIT 11 (INCLUDING COMPLEX FOUNDATION MODULE EXF)
34	COMPLEX FOUNDATION UNIT (EXF)
35	HAZARDOUS AREAS 3 DAY 'EX' APPRECIATION COURSE
36	EXPLOSION PROTECTED MOTORS INSPECTION AND MAINTENANCE
37	EXPLOSION PROTECTION
38	EXPLOSION PROTECTION AND ATEX AWARENESS
39	ATEX DIRECTIVES AND UKCA MARKING GUIDANCE
	● DIGITAL ONLINE LEARNING
41	DIGITAL ONLINE LEARNING: ATEX DIRECTIVES AND UKCA MARKING GUIDANCE
42	DIGITAL ONLINE LEARNING: CARBON CAPTURE AND STORAGE
43	DIGITAL ONLINE LEARNING: CONTROL OF SUBSTANCES HAZARDOUS TO HEALTH (COSHH)
44	DIGITAL ONLINE LEARNING: ELECTRICITY AT WORK REGULATIONS
45	DIGITAL ONLINE LEARNING: EXPLOSION PROTECTED MOTORS INSPECTION AND MAINTENANCE AWARENESS
46	DIGITAL ONLINE LEARNING: EXPLOSION PROTECTED AND ATEX AWARENESS
47	DIGITAL ONLINE LEARNING: HV SWITCHING AND DISTRIBUTION SYSTEMS AWARENESS
48	DIGITAL ONLINE LEARNING: HV/LV SAFE WORKING PRACTICES AWARENESS
49	DIGITAL ONLINE LEARNING: MANUAL HANDLING AWARENESS
50	DIGITAL ONLINE LEARNING: MECHANICAL EQUIPMENT IN POTENTIALLY HAZARDOUS AREAS
51	DIGITAL ONLINE LEARNING: RISK ASSESSMENT
52	DIGITAL ONLINE LEARNING: WASTE MANAGEMENT IN THE CIRCULAR ECONOMY

● ELECTRICAL ENGINEERING TRAINING

- 54 HV SWITCHING AND SYSTEM CONTROL (CITY & GUILDS 0672)
- 55 HV SWITCHING AND SYSTEM CONTROL REFRESHER
- 56 IET WIRING REGULATIONS 18TH EDITION (BS 7671)
- 57 IET WIRING REGULATIONS 18TH EDITION UPDATE (BS 7671:2018)
- 58 POWER SYSTEM PROTECTION (PROTECTION RELAYS)
- 59 EAL LEVEL 3 AWARD IN INITIAL VERIFICATION AND PERIODIC INSPECTION AND TESTING OF ELECTRICAL INSTALLATIONS (EAL 600/4337/4 + 600/4338/6)
- 60 LEVEL 3 AWARD IN THE DESIGN AND INSTALLATION OF DOMESTIC AND SMALL COMMERCIAL ELECTRIC VEHICLE CHARGING INSTALLATIONS
- 61 LEVEL 3 AWARD IN THE IN-SERVICE INSPECTION AND TESTING OF ELECTRICAL EQUIPMENT (PAT TESTING)
- 62 AUTHORISED PERSON: HIGH VOLTAGE SYSTEMS AND OPERATIONAL SAFETY
- 63 AUTHORISED PERSON: LOW VOLTAGE SYSTEMS
- 64 COMPETENT ELECTRICAL PERSON: LOW VOLTAGE SYSTEMS
- 65 SENIOR AUTHORISED PERSON: HIGH VOLTAGE OPERATIONS AND SAFETY
- 66 SENIOR AUTHORISED PERSON: HIGH VOLTAGE SYSTEMS
- 67 HIGH VOLTAGE CIRCUIT BREAKER SERVICE AND MAINTENANCE
- 68 HIGH VOLTAGE SYSTEMS MAINTENANCE AND INSPECTION
- 69 ADVANCED HIGH VOLTAGE SYSTEM MAINTENANCE AND INSPECTION
- 70 HIGH VOLTAGE SYSTEMS TECHNICAL AWARENESS
- 71 HV/LV SAFE WORKING PRACTICES AWARENESS
- 72 BACK UP SYSTEMS
- 73 ECS HEALTH AND SAFETY ASSESSMENT (ECS CARD)
- 74 ELECTRICITY AT WORK REGULATIONS
- 75 EMERGENCY ESCAPE LIGHTING

● EMERGENCY RESPONSE TRAINING

- 77 CONTROL ROOM OPERATOR EMERGENCY RESPONSE
- 78 INTRODUCTION TO CRO EMERGENCY RESPONSE ROLE AND RESPONSIBILITIES
- 79 MAJOR EMERGENCY MANAGEMENT INITIAL RESPONSE FOR RENEWABLE ENERGY (WIND)
- 80 MAJOR EMERGENCY MANAGEMENT INITIAL RESPONSE TRAINING
- 81 OIM CONTROLLING EMERGENCIES
- 82 OIM COACHING – CONTROLLING EMERGENCIES
- 83 OFFSHORE EMERGENCY RESPONSE AWARENESS
- 84 OPITO EMERGENCY COORDINATOR FOR RENEWABLE ENERGY
- 85 RULES AND REGULATIONS FOR OFFSHORE INSTALLATION MANAGER

● HEALTH, SAFETY AND ENVIRONMENT TRAINING

- 87 CONTROL OF SUBSTANCES HAZARDOUS TO HEALTH (COSHH)
- 88 ECITB CCNSG SAFETY PASSPORT
- 89 ECITB CCNSG SAFETY PASSPORT (REFRESHER)
- 90 IOSH SAFETY, HEALTH AND ENVIRONMENT FOR CONSTRUCTION SITE WORKERS
- 91 IOSH SAFETY, HEALTH AND ENVIRONMENT FOR CONSTRUCTION SITE MANAGERS
- 92 IOSH MANAGING SAFELY
- 93 IOSH WORKING SAFELY
- 94 MANUAL HANDLING AWARENESS
- 95 NEBOSH HSE CERTIFICATE IN MANUAL HANDLING RISK ASSESSMENT
- 96 NEBOSH AWARD IN ENVIRONMENTAL AWARENESS AT WORK
- 97 NEBOSH HSE CERTIFICATE IN PROCESS SAFETY MANAGEMENT
- 98 NEBOSH NATIONAL GENERAL CERTIFICATE IN OCCUPATIONAL HEALTH AND SAFETY
- 99 RISK ASSESSMENT
- 100 WORKING AT HEIGHTS AWARENESS

● INSTRUMENTATION & CONTROL TRAINING

- 102 FIRE AND GAS SYSTEM MAINTENANCE
- 103 FLOW MEASUREMENT
- 104 INTRODUCTION TO PROCESS INSTRUMENTATION (MODULE 1 MEASURING SYSTEMS)
- 105 INTRODUCTION TO PROCESS INSTRUMENTATION (MODULE 2 CONTROL SYSTEMS)
- 106 INTRODUCTION TO WIRELESS INSTRUMENTATION
- 107 INTRODUCTION TO PLC'S IN PROGRAMMING
- 108 PROCESS CONTROL VALVES – OPERATION, MAINTENANCE AND INSPECTION
- 109 SAFETY INSTRUMENT SYSTEMS (SIS) AND THEIR USE IN FUNCTIONAL SAFETY

● MARINE OPERATIONS TRAINING

- 112 DYNAMIC POSITIONING INTRODUCTION
- 113 DYNAMIC POSITIONING AWARENESS
- 114 DYNAMIC POSITIONING INDUCTION/BASIC
- 115 DYNAMIC POSITIONING SIMULATOR/ADVANCED
- 116 DYNAMIC POSITIONING REVALIDATION/DYNAMIC POSITIONING REFRESHER AND COMPETENCY ASSESSMENT COURSES
- 117 DYNAMIC POSITIONING REVALIDATION COURSE ONLINE EXAM
- 118 STABILITY THEORY (STABILITY 1)
- 119 OFFSHORE STABILITY AND BALLAST CONTROL FOR SEMI-SUBMERSIBLES (STABILITY 2)
- 120 BALLAST CONTROL SIMULATOR COURSE (STABILITY 3)
- 121 BALLAST CONTROL SIMULATOR REFRESHER COURSE (STABILITY 4)
- 122 MARINE OPERATIONS OF SELF-ELEVATING PLATFORMS (JACK-UP RIGS)
- 123 MARINE OPERATIONS OF SELF-ELEVATING PLATFORMS (JACK-UP RIGS) REFRESHER COURSE
- 124 FPSO MARINE OPERATIONS AWARENESS
- 125 RIG MOVE OPERATIONS
- 126 RADIOTELEPHONY RESTRICTED OPERATORS CERTIFICATE (ROC) (GMDSS)
- 127 RADIOTELEPHONY GENERAL OPERATORS CERTIFICATE (GOC) (GMDSS)
- 128 CIVIL AVIATION AUTHORITY (CAA) OFFSHORE COMMUNICATION SERVICE RADIO OPERATOR

● MECHANICAL ENGINEERING TRAINING

- 130 AUTHORISED PERSON (AP) IN PRESSURE SYSTEMS (MECHANICAL)
- 131 CENTRIFUGAL PUMP MAINTENANCE AND TROUBLESHOOTING
- 132 DIESEL ENGINE SERVICING AND FAULT FINDING
- 133 ECITB MJI 10: HAND TORQUE BOLTED CONNECTION TECHNIQUES
- 134 ECITB MJI 18: HYDRAULICALLY TENSIONED BOLTED CONNECTIONS
- 135 ECITB MJI 10,18,19: MECHANICAL JOINT INTEGRITY
- 136 ECITB MJI 10 AND MJI 19: HAND TORQUE BOLTED CONNECTION TECHNIQUES/HYDRAULICALLY TORQUE CONNECTION TECHNIQUES
- 137 ECITB SBT01: ASSEMBLE AND INSTALL SMALL BORE TUBING WITH TWIN FERRULE MECHANICAL GRIP FITTINGS
- 138 ECITB MJI 33: TORQUE AND TENSION WIND TURBINE BOLTED CONNECTIONS
- 139 FLANGE MAKE UP AND BOLTING FOR INTEGRITY
- 140 HOSE ASSEMBLY AND INSPECTION
- 141 HYDRAULIC ENGINEERING FUNDAMENTALS – STAGE 1
- 142 HYDRAULIC ENGINEERING FAILURE ANALYSIS AND TROUBLESHOOTING – STAGE 2
- 143 HYDRAULIC ENGINEERING SYSTEMS DESIGN AND ADVANCED TROUBLESHOOTING – STAGE 3
- 144 MECHANICAL PLANT INSPECTION
- 145 PRACTICAL DIESEL ENGINE OVERHAUL
- 146 PRESSURE TESTING FOR TECHNICIANS
- 147 PRESSURE TESTING FOR TECHNICIANS REFRESHER COURSE
- 148 ROTATING MACHINERY ALIGNMENT TECHNIQUES
- 149 SMALL BORE TUBING AND PIPEWORK
- 150 VALVE MAINTENANCE AND VALVE PRESSURE TESTING
- 151 VALVE IDENTIFICATION AND OPERATION

● PROCESS OPERATIONS TRAINING

- 153 FAMILIARISATION OF A CHEMICAL INJECTION SYSTEM
- 154 INTRODUCTION AND APPRECIATION OF PROCESS CONTROL
- 155 INTRODUCTION TO PROCESS SAFETY
- 156 INTRODUCTION TO THE OIL AND GAS INDUSTRY (FROM DISCOVERY TO REFINERY)
- 157 OPITO AUTHORISED GAS TESTER (AGT)
- 158 PROCESS OPERATIONS: CONTROL ROOM TECHNICIAN
- 159 SAFE ISOLATION AND REINSTATEMENT OF PLANT (SIRP)
- 160 UNDERSTANDING OF P&IDS

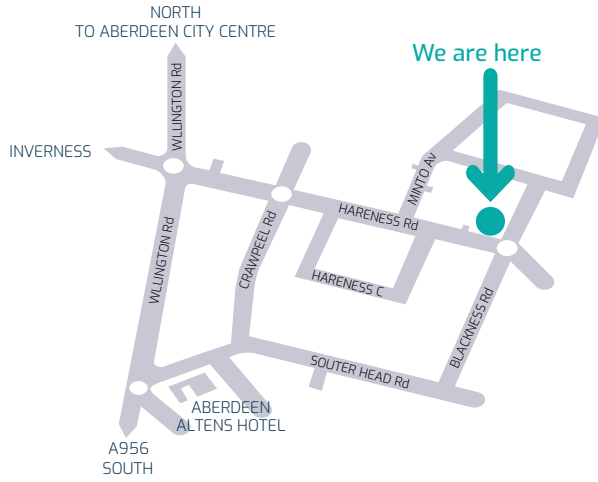
● RENEWABLES ENERGY TRAINING

- 162 GWO BASIC SAFETY TRAINING (BST) ONSHORE
- 163 GWO BASIC SAFETY TRAINING (BST) ONSHORE REFRESHER
- 164 GWO BASIC TECHNICAL TRAINING (BTT) BOLT TIGHTENING MODULE
- 165 GWO BASIC TECHNICAL TRAINING (BTT) COMBINED
- 166 GWO CONTROL OF HAZARDOUS ENERGIES (COHE) COMBINED
- 167 GWO CONTROL OF HAZARDOUS ENERGIES (COHE) REFRESHER
- 168 OPITO INTRODUCTION TO MECHANICAL AND ELECTRICAL ENGINEERING IN RENEWABLE ENERGY
- 169 MAJOR EMERGENCY MANAGEMENT INITIAL RESPONSE FOR RENEWABLE ENERGY (WIND)
- 170 OPITO EMERGENCY COORDINATOR FOR RENEWABLE ENERGY
- 171 ECITB MJI 33: TORQUE AND TENSION WIND TURBINE BOLTED CONNECTIONS

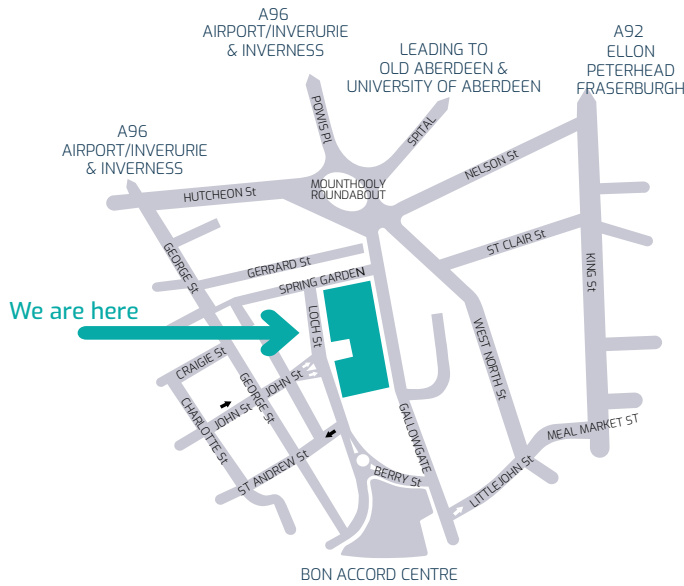
● SCAFFOLDING TRAINING

- 174 CISRS OPERATIVE TRAINING SCHEME (COTS)
- 175 CISRS SCAFFOLDING PART 1 – TUBE AND FITTING
- 176 CISRS SCAFFOLDING PART 2 – TUBE AND FITTING
- 177 LEVEL 2 CISRS SKILLS TEST – TUBE AND FITTING
- 178 CISRS SCAFFOLDING INSPECTION TRAINING SCHEME (SITS)
- 179 CISRS LEVEL 3 ADVANCED SCAFFOLDING
- 180 LEVEL 3 CISRS ADVANCED SKILLS TEST
- 181 CISRS SCAFFOLDER REFRESHER CPD COURSE
- 182 MOBILE ALUMINIUM TOWER TRAINING

LOCATION MAPS



ASET International Energy Training Academy
Altens Training Centre
 Aberdeen Altens Campus
 Hareness Road
 Altens industrial Estate
 Aberdeen
 AB12 3LE



Marine Training Centre
 North East Scotland College
 Aberdeen City Campus
 Gallowgate
 Aberdeen
 AB25 1BN



Clinterty Training Centre
 Aberdeen Clinterty Campus
 Clinterty
 Kinellar
 Aberdeen
 AB21 0TZ

COURSE BOOKINGS AND INFORMATION

HOW TO BOOK

For course bookings, course enquiries, or training requests, please contact our dedicated **Customer Service Team** on the following number

+44 (0) 300 330 5559

Alternatively email us at asetbookings@aset.co.uk or visit our website where you can book and pay online at www.aset.co.uk.

To ensure you obtain the course dates that meet your requirements, early bookings are recommended as many of our courses are in high demand.

Customer Service is our priority, so dates for any of the courses described in this directory may be tailored to suit your specific requirements (subject to minimum delegate numbers).

DISCLAIMER

Every effort is made to ensure that the information provided in this publication is accurate and up to date, but no legal responsibility is accepted for any errors, omissions or misleading statements.

This publication is subject to ASET International Energy Training Academy copyright and may not be reproduced in whole or part without the express permission of ASET.

ASET International Energy Training Academy is registered for VAT.

Course durations are approximate and times may change depending on delegate numbers.

PAYMENT FOR COURSES

Private Customers

All private customer bookings require course fees to be paid at the time of booking.

Business Customers

New company customers are required to pay for their first booking in advance of the commencement date of the course (date will be advised by the Customer Service Team at the time of booking).

Credit accounts are offered to company customers for subsequent bookings subject to a satisfactory credit check. Customers will be notified if their credit check has been successful and advised of the credit limit applied to their account. ASET International Energy Training Academy (ASET)'s credit terms require payment within 30 days from date of invoice.

ASET will review credit accounts and credit limits from time to time and reserves the right to amend or withdraw credit accounts where payment is not received within terms and/or where any other information comes to light which may indicate that customers are unable to comply with ASET's terms and conditions.

In the event of an unsatisfactory credit check, course fees will require to be paid in advance of the commencement date of the course.

Disclaimer

Current prices are displayed on the ASET website.

ASET International Energy Training Academy reserves the right to change prices, course dates or course provision at any time without notice.

CANCELLATION POLICY

ASET Cancellations

ASET International Energy Training Academy reserves the right to cancel a course should the minimum number of delegates not be met or due to unforeseen circumstances.

In the event of ASET International Energy Training Academy cancelling a course, liability will be limited to the refund of the course fee only, if paid.

Customer Cancellations

No cancellation fee will be charged for customer cancellation requests received more than 10 working days prior to the commencement of a course.

Cancellation requests received 10 working days or less prior to the commencement of the course will result in a cancellation fee of the full course price being charged unless a substitute delegate can be provided or the original delegate transferred to an alternative date. Any course fees already paid will be retained and allocated to the new delegate or transferred to the date as appropriate.

Please note that the option to transfer delegates to an alternative date is restricted to one move per delegate and any subsequent cancellation or transfer request will result in the full course fee being charged. We reserve the right to decline a request to transfer a booking if the request is made 24 hours or less prior to the commencement of the course.

Where a cancellation takes the number of delegates attending the course below minimum numbers the full course fee for that delegate will be payable.

Exceptions to the Above Cancellation Policy

Cancellations of the following courses:

- OIM Controlling Emergencies
- OIM Coaching – Controlling Emergencies

received within 15 working days or less days prior to commencement of the course will result in the full course fee per delegate being charged to cover operational costs incurred in respect of role players, assessors, emergency response suite booked for the course and two facilitators.

Where a company makes a block booking of a course 20 working days' notice prior to the commencement of the course is required. Any cancellation or transfer requests received within 20 working days or less prior to the commencement of the course will result in the course fee for the minimum delegate numbers being charged.

Limitation of Admission to Courses

ASET reserves the right to refuse admission to any course because of restricted availability of facilities due to accommodation or teaching requirements, suitability of candidate, or for any other reason which deems it necessary to do so at ASET's sole discretion. Admission to courses is ultimately at the sole discretion of the ASET Chief Executive. Bookings accepted may be subsequently cancelled as a result of this policy and course fees refunded, if paid.

Intellectual Property Rights

Intellectual Property in any work originating prior to or during the course of this training contract, developed by ASET for the purposes of the training shall be the exclusive property of ASET. The delegate shall not make use of such Intellectual Property except in the form of handout notes and in this respect solely for the use of the course delegates themselves and no other persons.

For the purposes of this Agreement, Intellectual Property shall include but not be limited to: teaching materials, lesson plans, handout notes, demonstration materials, display materials, software, designs, methods, processes, documented know how, research results, reports, analysis and all other similar items developed by ASET prior to or during the training course(s) delivered.

ACCOMMODATION

ASET International Energy Training Academy is happy to provide details of local hotels and guesthouses in the Aberdeen area.

Please contact: ASET International Energy Training Academy Customer Service Team on the following number **+44 (0) 300 330 5559**
Alternatively email us at asetbookings@aset.co.uk

ASET International Energy Training Academy operates out of the three following sites:

**ASET International Energy Training Academy
Altens Training Centre**
Altens Campus
Hareness Road
Altens Industrial Estate
Aberdeen
AB12 3LE

Marine Training Centre
North East Scotland College
City Campus
Gallowgate
Aberdeen
AB25 1BN

Clinterty Training Centre
Clinterty Campus
Clinterty
Kinellar
Aberdeen
AB21 0TZ

ASET PRICE PROMISE

ASET regularly evaluates the pricing of our courses to ensure we remain competitively priced. However if you are able to find another training provider in North East Scotland offering the same course and certification as ASET, at a lower price, we guarantee to beat their price by 10% as long as you provide evidence of the lower price at the time of booking.



WELFARE AND LEARNING SUPPORT FACILITIES



WHO WE ARE...

ASET International Energy Training Academy is a trading name of Aberdeen Skills and Enterprise Training Limited (ASET), a wholly owned subsidiary company of North East Scotland College (NESCol) - a Scottish Government owned Further Education College and registered charity.

ASET is one of the leading training providers in the North East of Scotland region, playing a key role in supporting the regions energy transition and the Scottish Government zero carbon emission target. ASET also welcomes training delegates from throughout the UK and over 90 international countries.

ASET's training instructors have occupational experience from the upstream and downstream oil and gas, engineering, marine, renewables and construction industries.

All ASET's highly experienced engineering instructors are SVQ/NVQ Level 3 approved instructors in either Electrical, Instrumentation, Mechanical or Process Engineering. Our Marine instructors hold either a STCW Certificate of Competence II/2 (Chief Mate) or significant work experience in Marine Operations relevant to their field and our instructors in Radiotelephony have both a General Operators Certificate (GOC) and CAA Authorised Offshore Communications Service (OCS) certificate. In the scaffolding centre our instructors hold SVQ/NVQ Level 3 in Advanced Scaffolding.

In addition all our instructors are/have:

- Minimum 5 years industry experience
- A1 or equivalent workplace assessor
- ASET approved training instructors and awarding body approved instructors/assessors where required.

The instructors' knowledge and experience, combined with our unique training facilities and our customer focused approach, has allowed the ASET International Energy Training Academy to achieve an impressive worldwide reputation for delivering high quality, credible training.....

“Reality without the risk”

WHAT WE DO...

ASET International Energy Training Academy provides highly specialized, technical, skills based training and assessment to UK and International awarding body standards.

ASET's extensive training portfolio includes over 200 training and assessment based courses, to support the renewables, engineering, construction, marine, oil and gas and wider energy industries:

- Automation & Process Control
- CompEx Hazardous Areas
- Digital Online Learning
- ECITB Connected Competence Trade Tests and ASET's own exclusive range of Oil & Gas Production Trade Tests
- Electrical, Hydraulic and Mechanical engineering
- Emergency Response and Management
- Health, Safety & Environment
- Marine including Dynamic Positioning, Stability & Semi-Submersibles, Jack-Up Operations and Rig Move Operations
- Oil & Gas Process Operations
- Renewables with a key focus on upskilling and transitioning Wind Technicians for the onshore and offshore wind energy industries
- Scaffolding
- Vocational Assessor & Verifier qualifications

In addition our courses can be customized and tailored specifically to meet individual client needs.



ASET trains and assesses from various stages to job ready which includes new entrants; industry apprentices; semi-experienced and experienced energy technicians, maintenance engineers, scaffolders, offshore installation managers, control room operators, emergency response team members, health and safety personnel, dynamic position operators and semi-submersible and jack-up rig operational personnel.

ASET offers an exclusive range of production trade tests, designed to establish the existing knowledge, know-how, skills, and understanding of process technicians, all carried out on our ABCOL platform. In addition, ASET provides vocational training programmes such as OPITO Global Level 2 Oil and Gas Processing, as well as Performing Engineering Operations in Mechanical, Electrical, and Instrumentation Engineering. If you would like more information on these courses, please get in touch with our Customer Service Team.



QUALITY ASSURED

North East Scotland College and its subsidiary company, ASET, deliver courses in line with the requirement of a range of quality systems. The College is subject to the quality requirements of Education Scotland, who are responsible for the quality of educational provision in schools and colleges in Scotland. College provision is also subject to the quality requirements of the Scottish Qualifications Authority. Additionally the College has obtained a wide range of specific quality standards including Investors in People, BS EN 14001 (Environmental Management) and BS EN 18001 (Occupational Health & Safety Management).

ASET's range of vocational training courses is carried out to recognised industry standards from the following awarding bodies:

- CISRS
- City & Guilds
- CompEx Certification Limited
- EAL
- ECITB
- GWO
- International Association of Drilling Contractors (IADC)
- IOSH
- Nautical Institute
- NEBOSH
- OPITO
- SQA
- UK Civil Aviation Authority



HISTORY

Aberdeen Skills & Enterprise Training was incorporated as a Private Limited Company and registered at Companies House in April 1993.

Since its inception, ASET has been delivering competence based training. The company, in conjunction with Shell UK, pioneered and developed the standards and competence based assessment training programmes for the identification and classification of Hazardous Areas and opened the world's first dedicated training centre in 1991. Ex Hazardous Areas training is now a global standard accredited by Compex Certification Limited and ASET remains a leading provider of this training.

The Marine Centre was the first Nautical Institute Dynamic Positioning Approved Centre in the world (1984) and is the only training centre recognized by the International Association of Drilling Contractors for Stability and Semi-Submersible and Jack-Up training (1987).

Aberdeen College and ASET acquired the former Shell Operations training facility in February 2000. Since then ASET has delivered Production and Maintenance training to the majority of the world's operators and contractors in the oil and gas industry.

Since its inception ASET has continued to develop and grow. On 7th March 2012 ASET held the official opening of its new International Oil & Gas Training Academy, arguably one of the finest training facilities for Oil and Gas Technicians of its kind anywhere in the world.

In recent years ASET has further diversified its training portfolio to support the changing needs of industry. New vocational training courses have been introduced covering renewables, energy transition, environmental and construction industry sectors as well as launching a range of Digital Online Learning courses covering a range of subjects.

In recognition of this diversification, and to demonstrate ASET's commitment to delivering a training portfolio that supports partners across the global energy sector, the decision was made in 2022 to unveil the Company's new corporate identity as the ASET International Energy Training Academy.

INDUSTRY AWARDS

ASET's reputation for quality has been recognised by the achievement of a number of quality standards and awards, including:

- Queen's Anniversary Prize (national honour which recognises world class excellence)- on two occasions (Aberdeen College)
- SQA International Centre of the Year Silver Award and Gold Award
- Offshore Achievement Award for Internationalisation of Scottish Skills in 2009 – Winner
- SQA International Business of the Year – Highly Commended 2012
- Offshore Achievement Awards Export – Finalist 2012
- Aberdeen Chambers Northern Business Star Awards Achievement in International Business – Commended 2012
- Aberdeen Chambers Northern Business Star Awards Best Campaign of the Year – Finalist 2013
- SQA International Business of the Year Award 2013 – Winner
- Offshore Achievements Awards Great Small Business - Finalist 2015



TRAINING FACILITIES

ABCOL OIL & GAS PRODUCTION TRAINING PLATFORM

Representing an investment of £20million, the ABCOL Oil & Gas Production Training Platform caters for a wide range of courses covering disciplines from process, mechanical, instrumentation and electrical including isolations, plant maintenance and simulation.

The heart of the ABCOL Platform control system is a Delta V Distributed Control System (DCS) and integrated emergency shut down system Delta V SIS (Safety Instrument System).

The plant instrumentation is a mix of smart Hart and Foundation Fieldbus technology, enhanced by the addition of an AMS system which adds wireless Hart and Valve Link technology. There is also a full range of legacy pneumatic and 4-20Ma analogue control.

The Fire & Gas system has a Triconex Trident PLC control system with combustible and toxic gas detection; smoke, heat and flame detection. There is a working deluge system with fire pumps and a frangible bulb fire detection system.



Below is a summary of the main equipment/technology incorporated within the ABCOL Platform:

Emerson Delta V Distributed Control System (DCS)

Electronic based Control of Work system

Fire & Gas System:

- emergency shut down system
- combustible and toxic gas detectors with infra-red and ultra violet technology
- heat and smoke detectors
- manual alarms
- public address system with simulated GPA/PAPA
- deluge system

Offshore Process Simulation:

- christmas tree
- two phase separator
- air compressors
- storage tanks
- accumulators
- process pipework, valves and electrical supply and connections
- double block and bleed valves
- chemical injection skid
- metering skid, prover and Emerson control panel

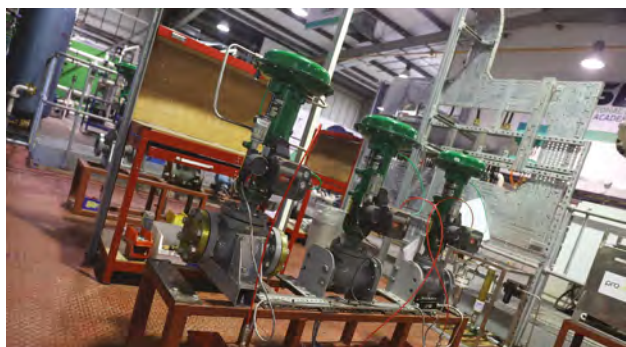
Instrumentation:

- programmable logic controllers (PLC's)
- flow meters
- control valves
- shutdown valves
- Hart fieldbus and wireless instrumentation control technology
- snap-on wireless vibration monitors and snap-on valve link
- 4-20Ma analogue and pneumatic technology

Mechanical:

- centrifugal pumps
- gate valves
- globe valves
- needle valves
- butterfly valves
- plate heat exchangers
- shell tube heat exchangers
- hydraulic skid including pneumatic pumps



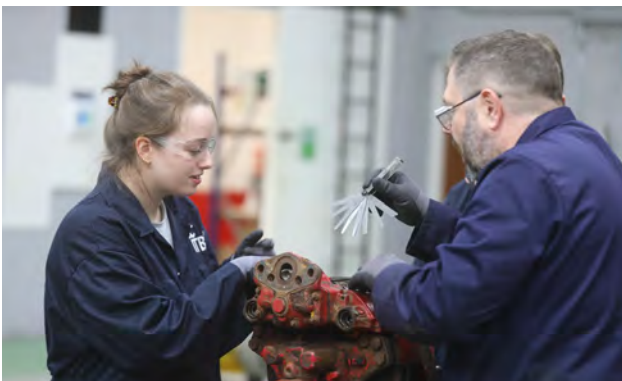


ENGINEERING WORKSHOPS

MECHANICAL WORKSHOP

Located at our Clinterty Training Centre, the mechanical workshop is a large, well organised multi-functional area equipped with:

- workbenches complete with vices and pipe vices
- pillar drills, bandsaw and bench grinder
- a chain hoist fitted to a running beam to assist with lifting heavy items as well as a portable engine hoist
- a range of mechanical maintenance equipment including centrifugal pumps; screw, centrifugal and reciprocating compressors; gearboxes; heat exchangers and diesel engines
- pump and motor sets used to teach alignment using both reverse periphery and laser alignment techniques
- dedicated areas (or work stations) for carrying out specific tasks:
 - *hydraulic training area with modern test rigs for building hydraulic circuits
 - *pneumatic pressure testing area equipped with mechanical and digital chart recorders
 - *an area to strip and overhaul various types of valve (gate, globe, ball, relief), and to hydrostatically test them on our valve pressure test rig
 - *a dedicated area for mechanical joint integrity where process pipework can be dismantled, cleaned, inspected and reassembled using hand torque wrenches, hydraulic torque wrenches and hydraulic bolt tensioners
 - *area for fabrication of steel and copper pipework including soldering, assembly and mechanical threading using both hand tools and RIDGID power threading machine fabrication, installation, maintenance and testing of small bore tubing is catered for within our workshop area using various hand tools and test equipment.



ELECTRICAL WORKSHOPS

ASET has electrical workshops located at both our Altens and Clinterty Training Centres.

The Altens electrical workshops consist of the following:

- 6 x 2 persons work bays each with single phase and three phase supplies feeding a permanently mounted busbar distribution system which in turn supplies various final circuits
- 7 x 2 persons work bays each with a 415V, 220V & 110V supply, used for electrical installation tasks



The Clinterty electrical workshops consist of the following:

- 8 x 2 persons work bays each with single phase and a three phase supply feeding a permanently mounted busbar distribution system which in turn supplies various final circuits.
- 6 x 2 persons work bays each with a 415V, 220V & 110V supply, used for electrical installation tasks
- a 6 person dedicated installation test bay used for verification, inspection and testing of electrical installations.
- a dedicated Battery Room (Lead Acid & Ni Cad Batteries) and Direct Current Uninterrupted Power Supply (DC UPS) used for carrying out maintenance tasks.

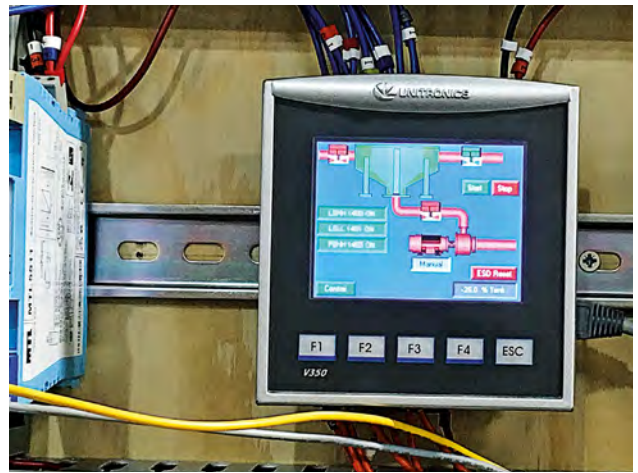


INSTRUMENTATION WORKSHOPS

The instrumentation workshop, located at the Altens Training Centre, have a full range of test equipment to facilitate testing of legacy and Smart Instrumentation.

The instrument test lab contains standard pressure, temperature, level and flow field devices to allow workshop maintenance and calibration in a workshop environment.

The workshops also facilitate the installation and testing of Programmable Logic Controller Systems.



HIGH VOLTAGE/LOW VOLTAGE TRAINING CENTRE

Located at our Altens Training Centre, ASET's unique High Voltage/Low Voltage (HV/LV) Training Centre features a range of the latest technology not available at any other training centre in Scotland, including:

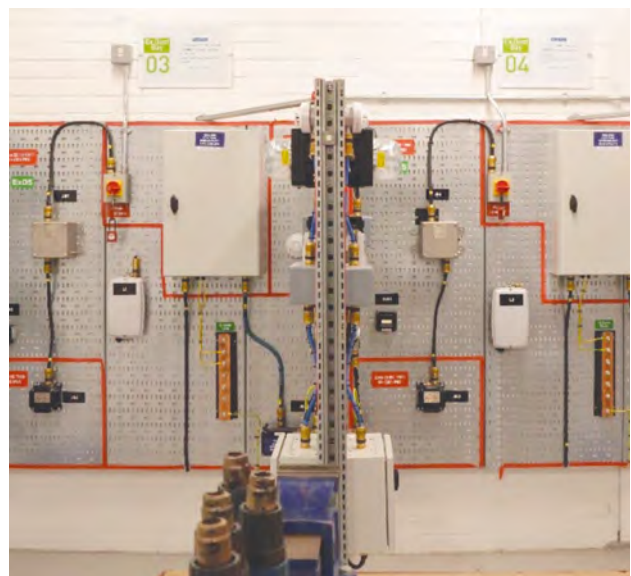
- a full range of HV and LV switchboards which can either be remotely switched through the electric control panel or locally at the boards themselves.
- the primary electrical supply comes from ASET's Power Generator and VSD (Variable Synchronised Drives) which allows delegates to synchronise and load share during training exercises.
- two fully rated transformers which feed between HV to LV boards. ASET's High Voltage technology uses live electrical power which is simulated for safety reasons to 33Kv.
- a load bank which allows synchronisation and load sharing.
- Schneider fully rated Circuit Vacuum Breakers on the HV board and Air Circuit Breakers on the LV boards.
- An extensive range of protection relays which include:
 - EF/OC Protection
 - Thermal Protection
 - Voltage Dependant O/C Protection
 - Generator Protection (Field Failure/Reverse Power)
 - Trip Circuit Supervision
 - Lock Out
 - Transformer Protection
 - A range of Static, Electro Mechanical and Micro Processor Relays

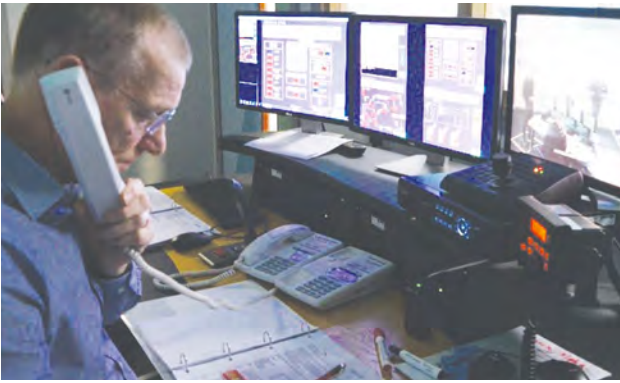


COMPEX HAZARDOUS AREAS TRAINING CENTRE

Refurbished in January 2020, ASET's modern and well equipped CompEx approved Hazardous Areas Training Centre features the latest technology including the following:

- 20 competence validation testing bays used to assess delegates in the preparation, installation and inspection of a range of electrical equipment commonly found in potentially hazardous areas in onshore and offshore working environments (EX01-04)
- 4 competence validation testing bays used to assess candidates in the preparation, installation and inspection of electrical equipment in potentially hazardous combustible dust areas both in the onshore and offshore working environments (EX05-06)
- 6 assessment bays used for inspection and maintenance of flame proof explosion protected motors
- 3 CompEx mechanical assessment pump and motor skids used for inspection and fault finding
- a CompEx mechanical pipe rig trainer used for making up flanges and pressure testing



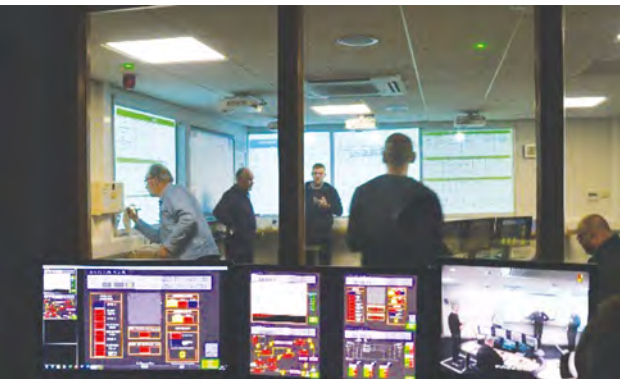


EMERGENCY RESPONSE TRAINING CENTRE

ASET's OPITO Approved Emergency Response Training Centre uses high fidelity computer based screen simulation supported with state of the art communications technology to replicate real life emergency responses and critical situations in the offshore and onshore oil and gas and renewable energy sectors.



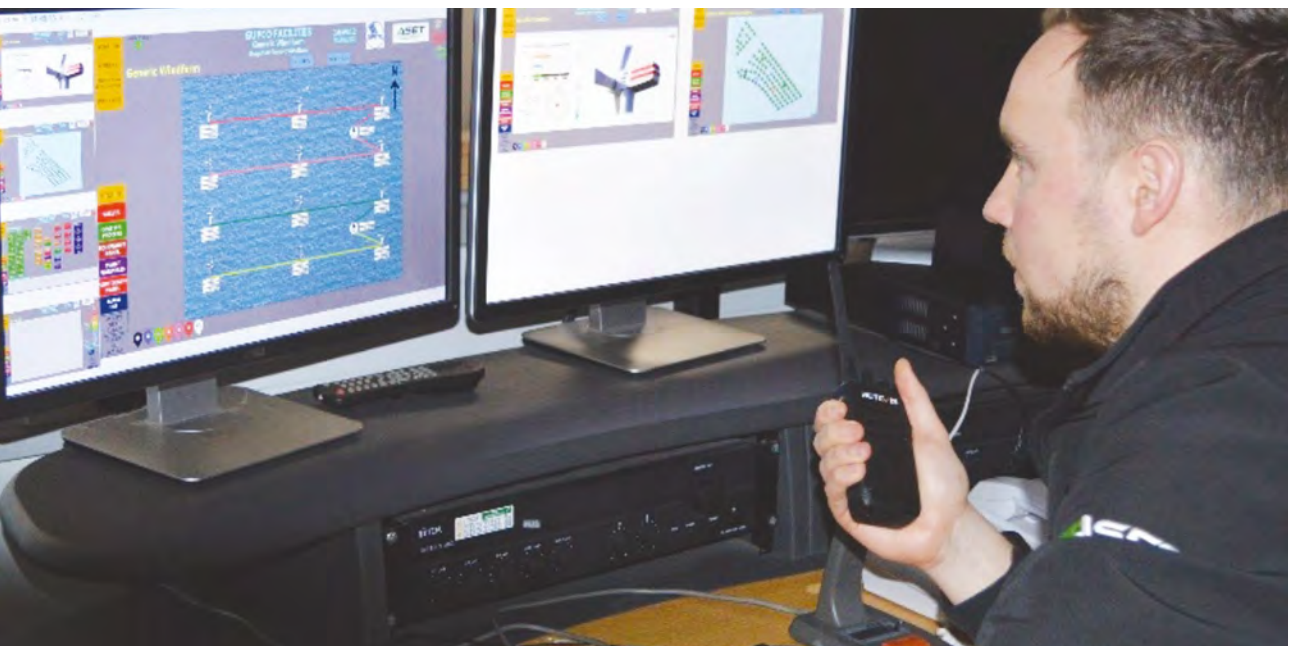
Our online training simulation technology also provides highly effective training to delegates who are unable to attend the ASET Emergency Response Training Centre in person.



ASET is a leading training provider in training and assessing Offshore Installation Managers, Control Room Operators and members of Emergency Response teams. ASET also provides Emergency training for personnel working on onshore and offshore windfarms. Bespoke training can also be offered for any companies whose personnel are required to coordinate and manage emergency response and critical situations.

The ASET Emergency Response Training team is comprised of high calibre training professionals, who are ex-coastguard emergency management personnel, OIMs, CROs and Wind Turbine Technicians.

A leading provider of Emergency Management training and assessment for the Energy Industry, ASET has gained an excellent reputation for the quality of training provided.



RADIOTELEPHONY

ASET'S Radiotelephony Department provides a range of MCA (Maritime and Coastguard Agency) and CAA (Civil Aviation Authority) approved, internationally recognised radio courses to industry.

Located at our Altens Training Centre, the equipment includes:

- VHF/MF/HF radio equipment
- Inmarsat equipment.

MARINE TRAINING CENTRE

Located at the North East Scotland College City Campus, ASET's Marine Training Centre offers simulated training in Dynamic Positioning (DP), Offshore Stability and Ballast Control for semisubmersible rigs and marine operations of self elevating platforms (jack-ups).

DYNAMIC POSITIONING

The DP Training suite uses the Kongsberg K-Sim DP NI Class B High Fidelity Simulator which features 120 degree panoramic view and Class C desktop interactive simulation, meeting Nautical Institute standards.



STABILITY & BALLAST CONTROL, JACK UPS, AND RIG MOVE OPERATIONS

ASET's stability and ballast control of semi-submersibles, jack up and rig move simulator reflects current industry standards including Floating Production Storage and Offloading (FPSO) marine operations. It features:

- electrically powered tilting table
- operating consoles complete with mimic board and computer interface
- advanced simulation software
- three and four leg jack-up simulation
- failure modes such as 'punch through' towing operations.

The simulator provides realistic movement and reaction in relation to changes in sea-state, weight loading and mooring pattern.

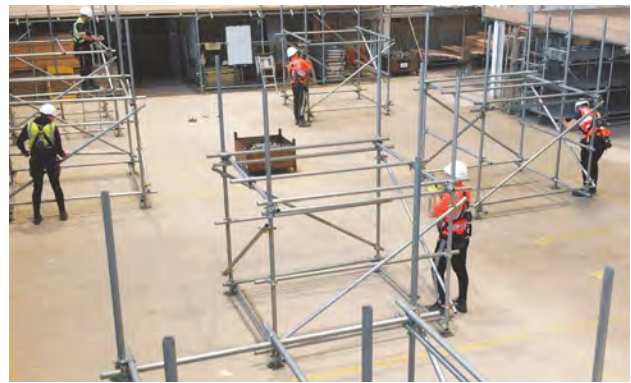


SCAFFOLDING TRAINING CENTRE

Located at Clinterty, ASET's Scaffolding Training Centre is a purpose built modern training facility equipped with a 3 bay layout with 2 raised gantry levels supported by steel structures to accommodate cantilever exercises and over the side scaffolding operations (CISRS Advanced).

The centre accommodates up to 27 trainees and offers tube & fitting in CISRS accredited Part 1, Part 2 and Advanced courses.

SQA and CISRS approved, ASET has the only Approved Centre in the North East of Scotland that supports the CITB Scaffolding Apprenticeship Scheme.



ASET ONLINE TRAINING SIMULATION

ASET International Energy Training Academy offers a range of training courses using our cloud-based online training simulator. The software replicates real life major emergency management situations in the following simulated work environments:

- Production Platforms
- Jack-Ups and Semi-Submersibles
- FPSO's
- Onshore Facilities
- Offshore Wind Farms

The simulator utilises online communication software such as public address, radios and phones to replicate an emergency command centre or production control room environment allowing the team to communicate effectively with the remote training delegates.

Emergency Response

The training team simulate the emergency management scenarios from the ASET's OPITO approved training centre in Aberdeen.

The following courses can be completed through the online simulation:

- OPITO Major Emergency Management Initial Response (MEMIR)
- OPITO Major Emergency Management Initial Response for Renewable Energy (Wind)
- OPITO Control Room Operator for Emergency Response (CRO)
- ASET Introduction to Control Room Operator

Stability and Ballast Control

We also offer the online training simulation for our Ballast Control Simulator Refresher (Stability 4). This is for experienced ballast control operators who have previously completed their training and wish to maintain their CPD but do not require IADC certification.

How to Book

If you are unable to attend the ASET training centre in person or wish to save on travel and accommodation costs, contact our Customer Service team to book your course and complete it from your workplace or office.

Requirements

Delegates are required to have a standard Windows or Mac desktop or laptop with a reliable internet connectivity. The Customer Service team will email joining instructions that include a simulator start-up and user guide as well as personal log in details upon booking.

Delegates attending the Ballast Control Simulator Refresher (Stability 4) must have previously completed a Ballast Control Simulator (Stability 3) training course.

ASSESSOR & VERIFIER TRAINING

CUSTOMER FEEDBACK

“Very useful training course, knowledgeable and very approachable instructor, always happy to help and answer all questions”

Magdalena Pirog, Paragon Offshore
Unit L&D11 SQA SCQF Level 8 Internally Monitor
and Maintain the Quality of Workplace Assessment

“Very good course and recommend it to anyone. Instructor was a pleasure to have and went the extra mile for us all. Very well put together. Good skills & excellent communication skills”

Mark Mair, Ace Winches
Unit L&D11 SQA SCQF Level 8 Internally Monitor
and Maintain the Quality of Workplace Assessment

ASSESSOR & VERIFIER TRAINING

ASSESS WORKPLACE COMPETENCE USING DIRECT AND INDIRECT METHODS: UNIT LANDD9DI SQA SCQF LEVEL 8

Duration	Cost per Delegate	Venue
2 Days Classroom	£1,571+VAT See additional costs below.	Altens Training Centre

Availability Visit our website for the latest available dates. To enquire about additional dates or to set up a course specifically for your company, please contact the [ASET Customer Service Team](#).

About this Course

Target Audience Anyone within an organization whose role requires them to assess the performance of others. The course is also aimed at those who require an understanding of the role of assessment within a Competence Standard System. This is a competence-based qualification; therefore this course is for individuals who will undertake the post-course work to achieve their award.

Prerequisites There are no prerequisites for this course.

Practical Content 70% **Theoretical Content** 30%

Key Learning Outcomes

- Develop an understanding of how to prepare for and plan assessments.
- Gain the skills to assess a candidate's knowledge and performance and confirm their progression and achievement.

Course Content

- Standards of competence
- Assessment strategies
- Assessor role and responsibilities
- The assessment process
- Planning for assessments
- Evaluating evidence
- Making and justifying assessment decisions
- Giving feedback to candidates
- Quality assurance measures
- The people issues
- Constructing and maintaining an Assessor CPD log (now a formal condition of maintaining Assessor status)
- Assistance and guidance on how to construct a portfolio of evidence
- Professional discussion.

Assessment

- Trainee Assessor must compile a portfolio of evidence to satisfy the awarding body criteria
- To achieve this qualification the assessor candidate must assess the competence of two candidates on two separate occasions in their place of work using a set of recognised standards provided by the candidate's employer. At least one of these assessments must be observed by the ASET Lead Assessor.
- Review meetings conducted with the ASET Lead Assessor and the trainee assessor to authenticate the ongoing portfolio of evidence.
- Final meeting for summative assessment of portfolio of evidence.

Certification



SQA Assessor certificate.

PPE Requirements PPE not required.

Further Information Additional costs:

- One assessment by an ASET Lead Assessor in the workplace (not including instructor travel & accommodation if required): **£600+VAT**
- Interim assessment of portfolio: **£200+VAT**
- Final verification of portfolio: **£300+VAT**

INTERNALLY MONITOR AND MAINTAIN THE QUALITY OF WORKPLACE ASSESSMENT: UNIT LANDD11 SQA SCQF LEVEL 8

Duration	Cost per Delegate	Venue
2 Days Classroom	£1,571+VAT See additional costs below.	Altens Training Centre

Availability Visit our website for the latest available dates. To enquire about additional dates or to set up a course specifically for your company, please contact the [ASET Customer Service Team](#).

About this Course

Target Audience

Anyone within an organization whose role requires them to internally assure the quality of assessment. The course is also aimed at those who require an understanding of the role of internally assuring the quality of assessment within a Competence Standard System. This is a competence-based qualification; therefore this course is for individuals who will undertake the post-course work to achieve their award.

Prerequisites

There are no prerequisites for this course.

Practical Content

70%

Theoretical Content 30%

Key Learning Outcomes

- Gain an understanding on the processes of preparing and planning to carry out internal quality assurance.
- Develop the skills and knowledge to carry out planned monitoring of the quality of assessment.
- Understanding of how to provide assessors with feedback, advice and support to help them maintain and improve their assessment practice.
- Understand the requirements of meeting appropriate external quality assurance.

Course Content

- Standards of competence
- Verification strategies
- Verifier's role and responsibilities
- Constructing and maintaining an IQA CPD log (now a formal condition of maintaining IQA status)
- Assistance and guidance on how to construct a portfolio of evidence
- Professional discussion
- The verification process:
 - *Planning for internal quality assurance of assessment
 - *Evaluating quality of assessment
 - *Internally maintain and improve the quality of assessment
 - *Manage information relevant to the internal quality assurance of assessment
 - *Maintain legal and good practice requirements when internally monitoring and maintaining the quality of assessment.

Assessment

- Trainee Verifier must compile a portfolio of evidence to satisfy the awarding body criteria.
- To achieve this qualification the verifier candidate is required to carry out the monitoring activities in their organisation's quality assurance procedures in accordance with appropriate external quality assurance requirements.
- Their knowledge will be assessed by taking part in a discussion with their assessor, answering questions (written or oral), verifier-candidate statement or a combination of all of these.
- The verifier-candidate's performance will be assessed by the assessor looking at products of work, for example:
 - *The verifier-candidate will be observed monitoring the activities of one assessor.
 - *Review meetings conducted with the ASET Lead Verifier and the trainee verifier to authenticate the ongoing portfolio of evidence.
 - *Final meeting for summative assessment of portfolio of evidence.

Certification



SQA Verifier Certificate.

PPE Requirements

PPE not required.

Further Information

Additional costs:

One assessment by an ASET Lead Assessor in the workplace (not including instructor travel & accommodation if required): **£600+VAT**

Interim assessment of portfolio: **£200+VAT**

Final verification of portfolio: **£300+VAT**

COMPEX HAZARDOUS AREAS TRAINING

CUSTOMER FEEDBACK

"The knowledge and skill of instructors are impressive. I am grateful and thankful for all the help and knowledge from the instructors!!"

Huibin Zhang, Score Europe Ltd
CompEx 5 Day Ex01-Ex04 Competence Based Course
November 2023

"ASET is great at preparing candidates for exam"

Lyle McAlpine, Semco Maritime Limited
CompEx Recognised Practitioners Programme (Ex01RPP-Ex04RPP)
April 2024

"Demonstration of explosions and practical exercises in workshops were really good"

Olga Filon, IES Callenberg
Atex Directive and UKCA Marking Guidance
July 2023

"Course was made enjoyable by the instructors"

Stuart Douglas, Diageo Malt Distilling
CompEx 3 Day Competence Based Course: Electrical & Instrumentation Equipment in Explosive Dust Atmospheres
November 2023

"Very enjoyable & beneficial learning experience that was well taught. I will be recommending!"

Lewis Fraser, Dron & Dickson Ltd
CompEx Foundation Unit (EXF)
October 2022

"No issues - all good! Tom was a star!"

Rob Walker, Relyon Nutec UK Ltd
Explosion Protected Motors - Inspection and Maintenance
November 2022

COMPEX HAZARDOUS AREAS TRAINING

COMPEX 5 DAY EX01 – EX04 COMPETENCE BASED COURSE

Duration	Cost per Delegate	Venue
5 Days	£806+VAT	Altens Training Centre

Availability Visit our website for the latest available dates. To enquire about additional dates or to set up a course specifically for your company, please contact the [ASET Customer Service Team](#).

About this Course

Target Audience This qualification is suitable for practicing electrical or instrument technicians who are involved in installing, inspecting and maintaining certified Ex electrical equipment in locations where gases and vapours can potentially create a hazardous area.

Prerequisites Delegates must supply evidence of relevant vocational qualifications i.e. Apprenticeship, SVQ3, SJIB. If you cannot supply these please contact our Customer Service Team who will assist you further.

Practical Content 50% **Theoretical Content** 50%

Key Learning Outcomes

- Identify the correct national regulations, directives and IEC standards which are applicable to hazardous locations.
- Identify the correct criteria and descriptors used to classify a hazardous location.
- Recognise the correct characteristics of common hazardous gases and vapours discussed during the course.
- Demonstrate an underpinning knowledge of how certified Ex electrical equipment including Ex 'd', 'e', 'n', 'p', 'm', 'o', 'q', 's', Intrinsic Safety (IS) maintains its protection concept and how it is to be selected, installed, inspected and maintained.
- Identify the correct test value readings for IS and non-IS installations and equipment.

Course Content

- General principles, ignition properties and apparatus protection
- Standards, Certification and marking
- Flameproof Ex'd' protection
- Increased safety Ex'e'
- Type Ex'n' protection
- Pressurisation Ex'px', Ex'py' and Ex'pz' protection
- Intrinsic safety Ex'ia', 'ib' and 'ic' protection
- Other methods of protection, Ex'o', Ex'q' and Ex'm'
- Combined (hybrid) methods of protection
- Wiring systems, enclosure entries, cable glanding and earthing
- Inspection and maintenance to BS/IEC 60079-17
- Sources of ignition
- Introduction to competence validation testing
- Permit to work system and safe isolation

Assessment Delegates will undertake a practical assessment and an online multiple-choice examination paper to demonstrate they have achieved the key learning outcomes detailed above.

Certification



CompEx National Certificate of Core Competence – valid for 5-years.

PPE Requirements Safety footwear, coveralls, safety glasses and gloves.

Further Information CompEx Recognised Practitioners Programme (RPP) course must be completed prior to 5-year expiry date otherwise 5-day CompEx Course to be retaken.

COMPEX HAZARDOUS AREAS TRAINING

COMPEX RECOGNISED PRACTITIONERS PROGRAMME (EX01RPP - EX04RPP)

Duration	Cost per Delegate	Venue
2 Days	£500+VAT	Altens Training Centre

Availability Visit our website for the latest available dates. To enquire about additional dates or to set up a course specifically for your company, please contact the [ASET Customer Service Team](#).

About this Course

Target Audience Personnel who hold an in-date CompEx National Certificate of Core Competence certificate which requires renewal.

Prerequisites Delegates are required to have a CompEx National Certificate of Core Competence achieved within the last 5 years and evidence of electrical certificates.

Practical Content 50% **Theoretical Content** 50%

Key Learning Outcomes

- Know the correct national regulations, directives and IEC standards which are applicable to hazardous areas.
- Know the correct criteria and descriptors used to classify a hazardous area.
- Recognise the correct characteristics of common hazardous gases and vapours discussed in the course.
- Demonstrate an underpinning knowledge of how certified Ex electrical equipment including Ex 'd', 'e', 'n', 'p', 'm', 'o', 'q', 's', and Intrinsic Safety (IS) maintains its protection concept, and how it is to be selected, installed, inspected, and maintained.

Course Content

- General principles, ignition properties and apparatus protection
- Standards, certification and marking
- Flameproof Ex'd' protection
- Increased safety Ex'e'
- Type Ex'n' protection
- Pressurisation Ex'px', Ex'py' and Ex'pz' protection
- Intrinsic safety Ex 'ia', 'ib' and 'ic' protection
- Other methods of protection, Ex'o', Ex'q' and Ex'm'
- Combined (hybrid) methods of protection
- Wiring systems, enclosure entries, cable glanding and earthing
- Inspection and maintenance to EN/IEC 60079-17
- Sources of ignition
- Equipment selection
- Fault finding exercises

Assessment Delegates will undertake an online multiple-choice examination and practical assessment to demonstrate they have achieved the key learning outcomes detailed above.

Certification



CompEx National Certificate of Core Competence renewed for a further 5-years.

PPE Requirements Safety footwear, coveralls, safety glasses and gloves.

Further Information Recognised Practitioners Programme (RPP) must be completed prior to the 5 year expiry date otherwise 5-day CompEx Course must be retaken.

COMPEX HAZARDOUS AREAS TRAINING

COMPEX 3 DAY COMPETENCE BASED COURSE: ELECTRICAL AND INSTRUMENTATION EQUIPMENT IN EXPLOSIVE DUST ATMOSPHERES

Duration	Cost per Delegate	Venue
3 Days	£796+VAT	Altens Training Centre

Availability Visit our website for the latest available dates. To enquire about additional dates or to set up a course specifically for your company, please contact the [ASET Customer Service Team](#).

About this Course

Target Audience This qualification is suitable for electrotechnical personnel who work on the physical installation and assembly of new 'Ex' equipment and perform preventive maintenance and inspections on previously installed equipment in hazardous dust atmospheres.

Prerequisites Delegates must supply evidence of relevant vocational qualifications i.e. Apprenticeship, SVQ3, SJIB. If you cannot supply these please contact our Customer Service Team who will assist you further.

Practical Content 40% **Theoretical Content** 60%

Key Learning Outcomes

- Identify the correct national regulations, directives and IEC standards which are applicable to hazardous dust locations.
- Identify the correct criteria and descriptors used to classify a hazardous dust location.
- Recognise the correct characteristics of common hazardous dust, fibres and flyings – i.e. combustible, conductive and non-conductive.
- Demonstrate an underpinning knowledge of how Ex electrical equipment is certified, including Ex i, iD, 'm', 'p', 'pD', 't', 'tD', 'd', 'e', 'm', 'o', 'q', 's', how it maintains its protection concept and how it is to be selected, installed, inspected and maintained.
- Identify the correct test value readings for IS and non-IS installations and equipment.
- Use IEC inspection table 1 and inspect pre-installed Ex'd, 'e' and 'n', 't', 'tD' electrical equipment.
- Interpret Intrinsically Safe (IS) documentation.
- Use IEC inspection table 2 and inspect pre-installed certified, non-certified, simple and associated apparatus on a pre-installed intrinsically safe installation.
- Identify and record faults at the correct grade of inspection.
- Recommend the correct remedial action and IEC inspection code for each fault identified.
- Recognise the need to prove an isolation on electrical equipment prior to carrying out a detailed inspection.
- Use the correct documentation.

Course Content

- Directives and relevant standards for selection, installation and inspection
- Ignition temperature of combustible dust clouds; & dust layers
- Combustible dust groups
- Area classification and recommended representations for combustible dust area classification diagrams
- Equipment protection types
- Equipment marking
- Practices 'A' and 'B' for the selection of equipment
- Minimum requirements for ingress protection
- Consideration of equipment for use in combustible dust
- Selection and installation of equipment
- Inspection of equipment

Assessment Delegates will undertake a multiple-choice examination paper and practical exercises to demonstrate they have achieved the key learning outcomes detailed above.

Certification



CompEx National Certificate of Core Competence - valid for 5-years.

PPE Requirements Safety footwear, coveralls, safety glasses and gloves.

COMPEX HAZARDOUS AREAS TRAINING

COMPEX 3 DAY MECHANICAL COMPETENCE BASED COURSE UNIT 11 (INCLUDING COMPEX FOUNDATION MODULE EXF)

Duration	Cost per Delegate	Venue
3 Days	£796+VAT	Altens Training Centre

Availability Visit our website for the latest available dates. To enquire about additional dates or to set up a course specifically for your company, please contact the [ASET Customer Service Team](#).

About this Course

Target Audience This qualification is suitable for practicing mechanical operatives who are involved in installing, inspecting and maintaining non-electrical (mechanical) equipment in locations where gases, vapours and/or dusts can potentially create a hazardous area.

Prerequisites Delegates must supply evidence of relevant mechanical vocational qualifications i.e. Apprenticeship, SVQ3, SJIB. If you cannot supply these please contact our Customer Service Team who will assist you further.

Practical Content 30% **Theoretical Content** 70%

Key Learning Outcomes

- Identify the correct national regulations, directives and IEC standards which are applicable to hazardous locations containing non-electrical (mechanical) equipment.
- Identify the correct criteria and descriptors used to classify a hazardous location.
- Recognise the correct characteristics of common hazardous gases, vapours and dusts discussed during the course.
- Demonstrate an understanding of the basic method and requirements for non-electrical equipment for hazardous locations (constructional safety 'c', control of ignition source 'b' and liquid immersion 'k').
- Demonstrate an understanding of how certified Ex non-electrical equipment maintains its protection concept and how it is to be selected, installed, inspected and maintained.
- Demonstrate an understanding of how certified Ex electrical equipment maintains its protection concept and how it is to be selected, installed, inspected and maintained.
- Demonstrate an understanding of required correct equipment selection, e.g. flange, gaskets, bolts and use of current industry flange installation practices.
- Demonstrate an understanding of leak testing requirements of installed flange arrangements

Course Content

- Health and Safety at Work
- ATEX Directives
- Permit to Work Systems
- Risk Assessment (ATEX compliant and pre-ATEX compliant)
- General principles, ignition properties & apparatus protection
- Standards Certification & Marking
- Area Classification (Zones/Categories & EPL's)
- Ex-Protection Methods (Gas & Dust)
- Temperature Classifications
- Inspection & Maintenance
- Guidelines for determining Mechanical Risk
- Mechanical Seals & Bearings
- Introduction to Competence Validation Testing

Assessment Delegates will undertake a multiple-choice examination paper to demonstrate they have achieved the key learning outcomes detailed above.

Certification



CompEx National Certificate of Core Competence - valid for 5-years.

PPE Requirements Safety footwear, coveralls, safety glasses and gloves.

COMPEX HAZARDOUS AREAS TRAINING

COMPEX FOUNDATION UNIT (EXF)

Duration	Cost per Delegate	Venue
2 Days	£581+VAT	Altens Training Centre

Availability Visit our website for the latest available dates. To enquire about additional dates or to set up a course specifically for your company, please contact the [ASET Customer Service Team](#).

About this Course

Target Audience This qualification is suitable for non-technical personnel who require an understanding of basic Ex principles, and recently qualified technicians who wish to develop their knowledge before undertaking more technical CompEx qualifications.

Prerequisites There are no prerequisites for this course.

Practical Content 0% **Theoretical Content** 100%

Key Learning Outcomes

- Gain the knowledge required to identify the correct national regulations, directives, and IEC standards which relate to hazardous areas.
- Demonstrate a basic knowledge of the main protection concepts, categories and protection levels that apply to equipment certified for use in hazardous areas.
- Ability to recognise the elements that make up a hazardous atmosphere and the precautions required.
- Understand the correct descriptors used for criteria that classify a hazardous gas, vapour or dust location.

Course Content

- Area classification
- Ignition properties
- ATEX Directives
- EN/IEC standards
- Ingress protection
- Methods of protection

Assessment Delegates will undertake a multiple-choice examination paper to demonstrate they have achieved the key learning outcomes detailed above.

Certification



CompEx Foundation Certificate.

PPE Requirements PPE not required.

COMPEX HAZARDOUS AREAS TRAINING

HAZARDOUS AREAS 3 DAY 'EX' APPRECIATION COURSE

Duration	Cost per Delegate	Venue
3 Days	£796+VAT	Altens Training Centre

Availability Visit our website for the latest available dates. To enquire about additional dates or to set up a course specifically for your company, please contact the [ASET Customer Service Team](#).

About this Course

Target Audience Personnel with an electrical or instrumentation background who have recently become involved, or will be moving into a role involving the selection, installation, inspection and maintenance of electrical and instrumentation equipment for use in potentially explosive atmospheres both on and offshore.

This course provides an effective overall appreciation of Hazardous Areas equipment preparing delegates for progression to the full CompEx 5 Day EX01-EX04 Competence Based Course.

Prerequisites There are no prerequisites for this course.

Practical Content 40% **Theoretical Content** 60%

Key Learning Outcomes Gain a knowledge of the basic principles of explosion protection.

Course Content

- Area classification
- Ignition properties
- ATEX Directives
- EN/IEC standards
- Ingress protection
- Methods of protection
- Practical inspection

Assessment Delegates will undertake a multiple-choice examination paper to demonstrate they have achieved the key learning outcomes detailed above.

Certification



City & Guilds 9841 Certificate.

PPE Requirements Safety footwear, coveralls and gloves.

Further Information This is a classroom based course with practical training exercises to underpin knowledge gained.

COMPEX HAZARDOUS AREAS TRAINING

EXPLOSION PROTECTED MOTORS INSPECTION AND MAINTENANCE

Duration	Cost per Delegate	Venue
2 Days	£724+VAT	Altens Training Centre

Availability Visit our website for the latest available dates. To enquire about additional dates or to set up a course specifically for your company, please contact the [ASET Customer Service Team](#).

About this Course

Target Audience Personnel involved in the inspection and maintenance of explosion protected electrical motors, and where knowledge in their dismantling, re-assembly and testing is required.

Prerequisites There are no prerequisites for this course. Prior knowledge of hazardous area principles is recommended.

Practical Content 60% **Theoretical Content** 40%

Key Learning Outcomes

- Illustrate a theoretical and technical knowledge in the dismantling, re-assembly and testing of explosion protected electrical motors.
- Understanding of the requirements for the inspection and maintenance of explosion protected electrical motors.
- Understanding Protection concepts for Ex'd'; Ex'e'; Ex'n' or N and Ex'p' types of protection.

Course Content

- Properties of flammable materials. Gas and apparatus grouping. Area and temperature classification. Ingress protection. Standards, Certification and label reading. Principles of Flameproof Ex'd'; Increased Safety Ex'e'; Non-Incendive ExN'n' or N, Ex'p' protection.
- Non-Incendive (Non-Sparking) Ex'n' or N Motors:
 - *Constructional features. Relevant British Standards and Codes of Practice.
- Ex'd'e' Motors:
 - *Constructional features of such motors and terminal arrangements. Relevant Standards and Codes of Practice. Applications. Consideration of the repair techniques permitted for Explosion Protected Motors.
- Flameproof Ex'd' Motors:
 - *Construction, Standards and Codes of Practice. Dismantling and inspection. Measurement of flamepaths. Bearing removal and fitting. Winding, cleaning and drying. Terminal marking. Electrical testing. Thermistors, RTD's. Anti- condensation heaters.
 - *Flamepaths. Reassembly. Drive pulleys, pinions and couplings. Thermal overload devices and test running.
- Increased Safety Ex'e' Motors:
 - *Constructional features, specifically for the elimination of arcs/sparks and excessive surface temperatures. Standards and Codes of Practice. Limitations of use. Selection of overload devices with regard to tE time and Ia/In current ratios.

Assessment Delegates will undertake a multiple-choice examination paper to demonstrate they have achieved the key learning outcomes detailed above.

Certification



City & Guilds 9841 Certificate.

PPE Requirements Safety footwear, coveralls and gloves.

Further Information This is a classroom based course with practical training exercises to underpin knowledge gained. The course will consider the practices set out by the motor manufacturer.

COMPEX HAZARDOUS AREAS TRAINING

EXPLOSION PROTECTION

Duration	Cost per Delegate	Venue
3 Days	£597+VAT	Altens Training Centre

Availability Visit our website for the latest available dates. To enquire about additional dates or to set up a course specifically for your company, please contact the [ASET Customer Service Team](#).

About this Course

Target Audience Personnel with an electrical, instrument or mechanical background within industry who require an understanding in the selection of equipment for hazardous areas and an overview of the ATEX Directive.

Prerequisites There are no prerequisites for this course.

Practical Content 40% **Theoretical Content** 60%

Key Learning Outcomes

- Understanding of hazardous area concepts for the use of electrical equipment.
- Knowledge of protection methods encompassing manufacture, installation, inspection and maintenance.

Course Content

- Area classification
- Ignition properties
- Definitions and terms
- EN/IEC standards for electrical and instrumentation
- Ingress protection
- Flameproof
- Increased safety
- 'n' types of protection
- Pressurization
- Intrinsic safety systems
- Hybrid protection
- ATEX Certification, documentation, labelling
- Cable types, glanding, earthing
- Inspections, maintenance for electrical and instrumentation
- Additional international standards
- References to NEC 500, NEC 505 zoning

Assessment Delegates will undertake a multiple-choice examination paper to demonstrate they have achieved the key learning outcomes detailed above.

Certification



City & Guilds 9841 Certificate.

PPE Requirements Safety footwear, coveralls and gloves.

Further Information It is recommended that personnel attending this course sit the refresher every 5 years.

This is a classroom based course with practical training exercises to underpin knowledge gained.

COMPEX HAZARDOUS AREAS TRAINING

EXPLOSION PROTECTION AND ATEX AWARENESS

Duration	Cost per Delegate	Venue
4 Days	£704+VAT	Altens Training Centre

Availability Visit our website for the latest available dates. To enquire about additional dates or to set up a course specifically for your company, please contact the [ASET Customer Service Team](#).

About this Course

Target Audience Personnel with electrical, instrument or mechanical background within industry who require an understanding in the selection of equipment for hazardous areas. Suitable for engineers working on projects and pre-planning of inspection programmes to EN/IEC 60079-17 and the implications of DSEAR for maintenance.

Prerequisites There are no prerequisites for this course.

Practical Content 30% **Theoretical Content** 70%

Key Learning Outcomes

- Understanding of hazardous area concepts for the use of electrical equipment.
- Knowledge of protection methods encompassing manufacture, installation, inspection and maintenance.
- Awareness of pre-planning of inspection programmes to EN/IEC 60079-17 and the implications of DSEAR for maintenance.

Course Content

- Area classification
- Ignition properties
- Definitions and terms
- EN/IEC standards for electrical and instrumentation
- Ingress protection
- Flameproof
- Increased safety
- 'n' types of protection
- Pressurization
- Intrinsic safety systems
- Hybrid protection
- ATEX Certification, documentation, labeling
- Cable types, glanding, earthing
- Inspections, maintenance for electrical and instrumentation
- Additional international standards
- References to NEC 500, NEC 505 zoning
- Guidelines in ATEX Directives 94/9/EC, 1999/92/EC

Assessment Delegates will undertake a multiple-choice examination paper to demonstrate they have achieved the key learning outcomes detailed above.

Certification



City & Guilds 9841 Certificate.

PPE Requirements Safety footwear, coveralls and gloves.

Further Information This is a classroom based course with practical training exercises to underpin knowledge gained.

COMPEX HAZARDOUS AREAS TRAINING

ATEX DIRECTIVES AND UKCA MARKING GUIDANCE

Duration	Cost per Delegate	Venue
2 Days	£474+VAT	Altens Training Centre

Availability Visit our website for the latest available dates. To enquire about additional dates or to set up a course specifically for your company, please contact the [ASET Customer Service Team](#).

About this Course

Target Audience Personnel involved in the manufacturing, assembly and supply of equipment; on-site personnel who require an understanding of DSEAR (Dangerous Substances and Explosive Atmospheres Regulations 2002) for the safety of workers and the use of equipment potentially at risk in hazardous areas. Suitable for project engineers, installers and Health & Safety personnel, who are required to comply with the Directives.

Prerequisites There are no prerequisites for this course.

Practical Content 0% **Theoretical Content** 100%

Key Learning Outcomes

- Understand the requirements of the ATEX Directives, UKCA Marking, and related documentation for use in potentially explosive atmospheres.
- Gain an understanding of the construction of technical files including sample documentation for certification, labelling of equipment and the conformity assessment procedures.

Course Content

- S.I. No. 192 and DSEAR S.I. No. 2776 where applicable
- Products within scope
- Zones of use, equipment groups, and categories
- Designation of notified bodies
- Documents issued by notified body and manufacturer
- EC Type-examination and declaration of conformity
- Internal control of production
- Essential health and safety requirements
- Ignition risk assessment and reporting
- Applicable harmonised standards
- Structure of the technical files
- UKCA marking of equipment and other references
- Quality Assurance
- Consideration of PED, Machinery, and EMC Directives
- Reference to the relative parts of DSEAR

Assessment Delegates will undertake a multiple-choice examination paper to demonstrate they have achieved the key learning outcomes detailed above.

Certification



City & Guilds 9841 Certificate.

PPE Requirements PPE not required.

Further Information This is a classroom based course with practical training exercises to underpin knowledge gained.

DIGITAL ONLINE LEARNING

CUSTOMER FEEDBACK



ATEX DIRECTIVES AND UKCA MARKING GUIDANCE

Duration	Cost per Delegate
7 Hours	£219+VAT

Availability

To book this course please email the [ASET Customer Service Team](mailto:asetbookings@aset.co.uk) at asetbookings@aset.co.uk. Confirmation of your booking followed by log in details for your digital course will be sent to the email address provided at the time of booking within approximately 48 hours.

About this Course

Target Audience

Personnel involved in the manufacturing, assembly and supply of equipment; on-site personnel who require an understanding of DSEAR (Dangerous Substances and Explosive Atmospheres Regulations 2002) for the safety of workers and the use of equipment potentially at risk in hazardous areas. Suitable for project engineers, installers and Health & Safety personnel, who are required to comply with the Directives.

Prerequisites

There are no prerequisites for this course.

Practical Content

0%

Theoretical Content 100%

Key Learning Outcomes

- Understand the requirements of the ATEX Directives, UKCA Marking, and related documentation for use in potentially explosive atmospheres.
- Gain an understanding of the construction of technical files including sample documentation for certification, labelling of equipment and the conformity assessment procedures.

Course Content

- S.I. No. 192 and DSEAR S.I. No. 2776 where applicable
- Products within scope
- Zones of use, equipment groups, and categories
- Designation of notified bodies
- Documents issued by notified body and manufacturer
- EC Type-examination and declaration of conformity
- Internal control of production
- Essential health and safety requirements
- Ignition risk assessment and reporting
- Applicable harmonised standards
- Structure of the technical files
- UKCA marking of equipment and other references
- Quality Assurance
- Consideration of PED, Machinery, and EMC Directives
- Reference to the relative parts of DSEAR

Assessment

On completion of the full digital programme each delegate will undertake a multiple-choice examination paper to demonstrate they have achieved the key learning outcomes detailed above. The assessment has a pass mark of 80%.

Certification



ASET International Energy Training Academy Certificate.

Further Information

Delegates can access this course from any location with internet access and work through it at their own pace.

CARBON CAPTURE AND STORAGE

Duration
4 Hours

Cost per Delegate
£219+VAT

Availability

To book this course please email the [ASET Customer Service Team](mailto:asetbookings@aset.co.uk) at asetbookings@aset.co.uk. Confirmation of your booking followed by log in details for your digital course will be sent to the email address provided at the time of booking within approximately 48 hours.

About this Course

Target Audience

Anyone requiring an overview and basic understanding of Carbon Capture and Storage.

Prerequisites

There are no prerequisites for this course.

Practical Content

0%

Theoretical Content 100%

Key Learning Outcomes

- Gain an understanding of the contribution of carbon capture technology towards the effect of climate change.
- Knowledge of how carbon is captured stored and transported.

Course Content

- Introduction to Carbon Capture and Storage
- Renewable energy
- Scotland's energy strategy
- What is carbon capture and storage?
- Advantages and disadvantages
- Alternatives
- Current and future projects

Assessment

On completion of the full digital programme each delegate will undertake a multiple-choice examination paper to demonstrate they have achieved the key learning outcomes detailed above. The assessment has a pass mark of 80%.

Certification



ASET International Energy Training Academy Certificate.

Further Information

Delegates can access this course from any location with internet access and work through it at their own pace.

CONTROL OF SUBSTANCES HAZARDOUS TO HEALTH (COSHH)

Duration	Cost per Delegate
2 Hours	£60+VAT

Availability

To book this course please email the [ASET Customer Service Team](mailto:asetbookings@aset.co.uk) at asetbookings@aset.co.uk. Confirmation of your booking followed by log in details for your digital course will be sent to the email address provided at the time of booking within approximately 48 hours.

About this Course

Target Audience

This course is suitable for employees required to carry out COSHH assessments.

Prerequisites

There are no prerequisites for this course.

Practical Content

0%

Theoretical Content 100%

Key Learning Outcomes

- Gain an understanding of hazardous substances as outlined within the Control of Substances Hazardous to Health Regulations 2002.
- Knowledge required to identify hazardous substances in the workplace.
- Understand the legal requirements of COSHH.

Course Content

- Properties of hazardous substances
- Effects of hazardous substances on the human body, and routes of entry
- Monitoring techniques
- Protective equipment
- Assessment and risk control measures

Assessment

On completion of the full digital programme each delegate will undertake a multiple-choice examination paper to demonstrate they have achieved the key learning outcomes detailed above. The assessment has a pass mark of 80%.

Certification



ASET International Energy Training Academy Certificate.

Further Information

Delegates can access this course from any location with internet access and work through it at their own pace.

ELECTRICITY AT WORK REGULATIONS

Duration 5 Hours
Cost per Delegate £311+VAT

Availability To book this course please email the [ASET Customer Service Team](mailto:asetbookings@aset.co.uk) at asetbookings@aset.co.uk. Confirmation of your booking followed by log in details for your digital course will be sent to the email address provided at the time of booking within approximately 48 hours.

About this Course

Target Audience Electricians, Supervisors and Electrical Management.

Prerequisites There are no prerequisites for this course.

Practical Content 0% **Theoretical Content** 100%

Key Learning Outcomes

- Identify the legal requirements of the relationship of the regulations with other codes of practice.
- Understand and explain the implications of the Electricity at Work Regulations 1989.
- Identify who are specified as competent persons within the regulations.

Course Content

- Citation & Commencement
- Interpretation
- Duties
- Systems, work activities and protective equipment
- Strength and capability of electrical equipment
- Adverse or hazardous environments
- Insulation, protection and placing of conductors
- Earthing or other suitable precautions
- Integrity of referenced conductors
- Connections
- Means for protecting from excess of current
- Means for cutting off the supply and for isolation
- Precaution for work on equipment made dead
- Work on or near live conductors
- Working space, access and lighting
- Persons to be competent to prevent danger and injury
- Defence

Assessment On completion of the full digital programme each delegate will undertake a multiple-choice examination paper to demonstrate they have achieved the key learning outcomes detailed above. The assessment has a pass mark of 80%.

Certification  ASET International Energy Training Academy Certificate.

Further Information Delegates can access this course from any location with internet access and work through it at their own pace.

EXPLOSION PROTECTED MOTORS INSPECTION AND MAINTENANCE AWARENESS

Duration 5 1/2 Hours
Cost per Delegate £219+VAT

Availability To book this course please email the [ASET Customer Service Team](mailto:asetbookings@aset.co.uk) at asetbookings@aset.co.uk. Confirmation of your booking followed by log in details for your digital course will be sent to the email address provided at the time of booking within approximately 48 hours.

About this Course

Target Audience Personnel involved in the inspection and maintenance of explosion protected electrical motors, and where knowledge in their dismantling, re-assembly and testing is required. Prior knowledge of hazardous area principles is recommended.

Prerequisites There are no prerequisites for this course.

Practical Content 0% **Theoretical Content** 100%

- Key Learning Outcomes**
- Illustrate a theoretical and technical knowledge in the dismantling, re-assembly and testing of explosion protected electrical motors.
 - Understanding of the requirements for the inspection and maintenance of explosion protected electrical motors.
 - Understanding protection concepts for Ex'd'; Ex'e'; Ex'n' or N and Ex'p' types of protection.

- Course Content**
- Properties of flammable materials. Gas and apparatus grouping. Area and temperature classification. Ingress protection. Standards, Certification and label reading. Principles of Flameproof Ex'd'; Increased Safety Ex'e'; Non-Incendive ExN'n' or N, Ex'p' protection.
 - Non-Incendive (Non-Sparking) Ex'n' or N Motors: Constructional features. Relevant British Standards and Codes of Practice.
 - Ex'de' Motors: Constructional features of such motors and terminal arrangements. Relevant Standards and Codes of Practice. Applications. Consideration of the repair techniques permitted for Explosion Protected Motors.
 - Flameproof Ex'd' Motors: Construction, Standards and Codes of Practice. Dismantling and inspection. Measurement of flamepaths. Bearing removal and fitting. Winding, cleaning and drying. Terminal marking. Electrical testing. Thermistors, RTD's. Anti- condensation heaters. Reassembly and measurement of Flamepaths. Drive pulleys, pinions and couplings. Thermal overload devices and test running.
 - Increased Safety Ex'e' Motors: Constructional features, specifically for the elimination of arcs/sparks and excessive surface temperatures. Standards and Codes of Practice. Limitations of use. Selection of overload devices with regard to tE time and Ia/In current ratios.

Assessment On completion of the full digital programme each delegate will undertake a multiple-choice examination paper to demonstrate they have achieved the key learning outcomes detailed above. The assessment has a pass mark of 80%.

Certification  ASET International Energy Training Academy Certificate.

Further Information Delegates can access this course from any location with internet access and work through it at their own pace.

EXPLOSION PROTECTED AND ATEX AWARENESS

Duration 10 Hours
Cost per Delegate £219+VAT

Availability To book this course please email the [ASET Customer Service Team](mailto:asetbookings@aset.co.uk) at asetbookings@aset.co.uk. Confirmation of your booking followed by log in details for your digital course will be sent to the email address provided at the time of booking within approximately 48 hours.

About this Course

Target Audience Personnel with electrical, instrument or mechanical background within industry who require an understanding in the selection of equipment for hazardous areas. Suitable for engineers working on projects and pre-planning of inspection programmes to EN/IEC 60079-17 and the implications of DSEAR for maintenance.

Prerequisites There are no prerequisites for this course.

Practical Content 0% **Theoretical Content** 100%

Key Learning Outcomes

- Understanding of hazardous area concepts for the use of electrical equipment.
- Knowledge of protection methods encompassing manufacture, installation, inspection and maintenance.
- Awareness of pre-planning of inspection programmes to EN/IEC 60079-17 and the implications of DSEAR for maintenance.

Course Content

- Area classification
- Ignition properties
- Definitions and terms
- EN/IEC standards for electrical and instrumentation
- Ingress protection
- Flameproof
- Increased safety
- 'n' types of protection
- Pressurization
- Intrinsic safety systems
- Hybrid protection
- ATEX Certification, documentation, labeling
- Cable types, glanding, earthing
- Inspections, maintenance for electrical and instrumentation
- Additional international standards
- References to NEC 500, NEC 505 zoning
- Guidelines in ATEX Directives 94/9/EC, 1999/92/EC

Assessment On completion of the full digital programme each delegate will undertake a multiple-choice examination paper to demonstrate they have achieved the key learning outcomes detailed above. The assessment has a pass mark of 80%.

Certification  ASET International Energy Training Academy Certificate.

Further Information Delegates can access this course from any location with internet access and work through it at their own pace.

HV SWITCHING AND DISTRIBUTION SYSTEMS AWARENESS

Duration 8 Hours
Cost per Delegate £219+VAT

Availability To book this course please email the [ASET Customer Service Team](mailto:asetbookings@aset.co.uk) at asetbookings@aset.co.uk. Confirmation of your booking followed by log in details for your digital course will be sent to the email address provided at the time of booking within approximately 48 hours.

About this Course

Target Audience Engineering personnel involved with power distribution networks, and the use of site operated switchgear, either onshore, offshore or onboard vessels.

Prerequisites There are no prerequisites for this course.

Practical Content 0% **Theoretical Content** 100%

Key Learning Outcomes

- Gain an understanding of electrical hazards and risk management.
- Understand the roles and responsibilities of the members of a team working under a permit.
- Understanding of High Voltage terminology.

Course Content

- Safety regulations Health and Safety at Work etc, Act 1974, The Electricity at Work Regulations 1989
- Electric shock effects
- First aid procedures
- Permit to work systems
- Authorisation levels
- Effects of faults on switchgear
- HV/LV Protection Relays overview
- Switchgear types and principles of operation
- Generator operation
- Control and capability diagrams
- Synchronization
- Load flow and load stability

Assessment On completion of the full digital programme each delegate will undertake a multiple-choice examination paper to demonstrate they have achieved the key learning outcomes detailed above. The assessment has a pass mark of 80%.

Certification  ASET International Energy Training Academy Certificate.

Further Information Delegates can access this course from any location with internet access and work through it at their own pace.

HV/LV SAFE WORKING PRACTICES AWARENESS

Duration 8 Hours
Cost per Delegate £219+VAT

Availability

To book this course please email the [ASET Customer Service Team](mailto:asetbookings@aset.co.uk) at asetbookings@aset.co.uk. Confirmation of your booking followed by log in details for your digital course will be sent to the email address provided at the time of booking within approximately 48 hours.

About this Course

Target Audience

Personnel with electrical, instrument or mechanical background within industry who require a basic understanding of HV/LV safe working practices

Prerequisites

There are no prerequisites for this course.

Practical Content

0%

Theoretical Content 100%

Key Learning Outcomes

- Gain an understanding of switchgear elements and operations.
- Understanding of electrical hazards in HV/LV equipment.
- Gain an awareness of Health & Safety procedures involved in safe isolation of HV/LV equipment.

Course Content

- HSE and Electricity at Work Regulations
- Task Risk Assessments
- Authorisations
- Effects of faults on switchgear
- Permit to Work systems
- Switchgear types and principles of operation

Assessment

On completion of the full digital programme each delegate will undertake a multiple-choice examination paper to demonstrate they have achieved the key learning outcomes detailed above. The assessment has a pass mark of 80%.

Certification



ASET International Energy Training Academy Certificate.

Further Information

Delegates can access this course from any location with internet access and work through it at their own pace.

This is a foundation course in preparation for undertaking the full HV/LV Safe Working Practices course at ASET International Energy Training Academy.

MANUAL HANDLING AWARENESS

Duration 1 Hour
Cost per Delegate £60+VAT

Availability

To book this course please email the [ASET Customer Service Team](mailto:asetbookings@aset.co.uk) at asetbookings@aset.co.uk. Confirmation of your booking followed by log in details for your digital course will be sent to the email address provided at the time of booking within approximately 48 hours.

About this Course

Target Audience

This course is suitable for employees required to carry out manual handling.

Prerequisites

There are no prerequisites for this course.

Practical Content

0%

Theoretical Content 100%

Key Learning Outcomes

- Gain an understanding of how to minimise the risk of injury to oneself and others.
- Increase awareness of potential manual handling hazards in the workplace.

Course Content

- Consideration of the implications of injuries associated with manual handling incidents
- Correct manual handling techniques
- The construction of the human frame and the health issues that can arise out of poor manual handling technique
- Risk assessment techniques as they relate to manual handling
- Lifting and handling techniques

Assessment

On completion of the full digital programme each delegate will undertake a multiple-choice examination paper to demonstrate they have achieved the key learning outcomes detailed above. The assessment has a pass mark of 80%.

Certification



ASET International Energy Training Academy Certificate.

Further Information

Delegates can access this course from any location with internet access and work through it at their own pace.

MECHANICAL EQUIPMENT IN POTENTIALLY HAZARDOUS AREAS

Duration	Cost per Delegate
11 Hours	£219+VAT

Availability To book this course please email the [ASET Customer Service Team](mailto:asetbookings@aset.co.uk) at asetbookings@aset.co.uk. Confirmation of your booking followed by log in details for your digital course will be sent to the email address provided at the time of booking within approximately 48 hours.

About this Course

Target Audience Personnel with electrical, instrument or mechanical background within industry who require a basic understanding of HV/LV safe working practices.

Prerequisites There are no prerequisites for this course.

Practical Content 0% **Theoretical Content** 100%

Key Learning Outcomes

- Gain an understanding of switchgear elements and operations.
- Understand the requirements of pre-prepared switching and isolation programmes.
- Gain an awareness of Health & Safety procedures involved in safe isolation of HV/LV equipment.

Course Content

- HSE and Electricity at Work Regulations
- Task Risk Assessments
- Authorisations
- Effects of faults on switchgear
- Permit to Work systems
- Switchgear types and principles of operation
- Generation of switching and isolation programmes
- Overview of HV/LV Protection Relays with practical demonstration of Relay Discrimination Scheme

Assessment On completion of the full digital programme each delegate will undertake a multiple-choice examination paper to demonstrate they have achieved the key learning outcomes detailed above. The assessment has a pass mark of 80%.

Certification  ASET International Energy Training Academy Certificate.

Further Information Delegates can access this course from any location with internet access and work through it at their own pace.

This is a foundation course in preparation for undertaking the full HV/LV Safe Working Practices course at ASET International Energy Training Academy.

RISK ASSESSMENT

Duration 1 Hours
Cost per Delegate £60+VAT

Availability

To book this course please email the [ASET Customer Service Team](mailto:asetbookings@aset.co.uk) at asetbookings@aset.co.uk. Confirmation of your booking followed by log in details for your digital course will be sent to the email address provided at the time of booking within approximately 48 hours.

About this Course

Target Audience

This course is suitable for employees required to carry out Risk Assessments.

Prerequisites

There are no prerequisites for this course.

Practical Content

0%

Theoretical Content 100%

Key Learning Outcomes

- Gain an awareness of the purpose of a risk assessment.
- Knowledge of the definitions of hazard, risk and control measures.
- Understanding of how to use a basic risk matrix.
- Knowledge of the difference between task and dynamic risk assessments.

Course Content

- Legislative requirements
- Main reasons for assessing risks
- Estimating risks
- Applying a control measure hierarchy to control risks
- Safe Working Procedures

Assessment

On completion of the full digital programme each delegate will undertake a multiple-choice examination paper to demonstrate they have achieved the key learning outcomes detailed above. The assessment has a pass mark of 80%.

Certification



ASET International Energy Training Academy Certificate.

Further Information

Delegates can access this course from any location with internet access and work through it at their own pace.

WASTE MANAGEMENT IN THE CIRCULAR ECONOMY

Duration
10 Hours

Cost per Delegate
£286+VAT

Availability To book this course please email the [ASET Customer Service Team](mailto:asetbookings@aset.co.uk) at asetbookings@aset.co.uk. Confirmation of your booking followed by log in details for your digital course will be sent to the email address provided at the time of booking within approximately 48 hours.

About this Course

Target Audience Anyone requiring an overview of waste management within the economy.

Prerequisites There are no prerequisites for this course.

Practical Content 0% **Theoretical Content** 100%

Key Learning Outcomes Provide an understanding of what is required at management level in an organisation to help ensure that waste is managed in the workplace in order to meet environmental legal requirements.

Course Content

- Introduction – Key Definitions
- Environmental Law (UK General and Scotland Specific)
- Environmental Guidance
- Environmental Management System
- An Aspects and Impacts Register
- Use of and Reduction of Energy and Waste
- Control of Waste
- Emergency Planning

Assessment On completion of the full digital programme each delegate will undertake a multiple-choice examination paper to demonstrate they have achieved the key learning outcomes detailed above. The assessment has a pass mark of 80%.

Certification  ASET International Energy Training Academy Certificate.

Further Information Delegates can access this course from any location with internet access and work through it at their own pace.

ELECTRICAL ENGINEERING TRAINING

CUSTOMER FEEDBACK

"I will certainly visit again for more training!"

Martin Osuji - Energy Plus Technical Services Doha
Authorised Person HV Systems
December 2023

"Great teacher in Marty. Couldn't be more helpful, very knowledgeable!"

Ian Niven, Private Delegate
EAL Inspection and Testing
April 2024

"Informative course and well delivered by instructor"

Austin McLennan, BP
Electricity at Work Regulations
February 2024

"Graeme was very knowledgeable about the course and answered any questions answered. Course was put across in a fun way."

Scott Jeffrey, KCA Deutag
HV Refresher
October 2023

"Excellently delivered by Austin who answered all questions put to him"

Mark McLeod, BP
HV Switching and System Control
April 2024

"Facilities are great! Instructors are well informed"

W Sinclair, BAM Construct & Ventures UK Ltd
18th Edition
April 2024

"Course was clear and informative"

Ethan Tole, Mitie Group
PAT Testing
December 2023

"Enjoyable and worthwhile course. Lecturer very knowledgeable and very willing to assist if needed"

Iain Mcguire, Private Delegate
Protections Relays
December 2023

ELECTRICAL ENGINEERING TRAINING

HV SWITCHING AND SYSTEM CONTROL (CITY & GUILDS 0672)

Duration	Cost per Delegate	Venue
3 Days	£1,071+VAT	Altens Training Centre

Availability Visit our website for the latest available dates. To enquire about additional dates or to set up a course specifically for your company, please contact the [ASET Customer Service Team](#).

About this Course

Target Audience Engineering personnel involved with power distribution networks, and the use of site operated switchgear, either onshore, offshore or onboard vessels.

Prerequisites There are no prerequisites for this course.

Practical Content 60% **Theoretical Content** 40%

Key Learning Outcomes

- Gain an understanding of the basic principles in HV/LV switching.
- Required knowledge of health and safety within a HV area and how to work safely.
- Knowledge and skill to prepare and perform a switching and isolation within an HV/LV area.

Course Content

- Safety regulations Health and Safety at Work etc Act 1974, The Electricity at work Regulations 1989
- Electric shock effects
- First aid procedures
- Permit to work systems
- Authorisation levels
- Effects of faults on switchgear
- HV/LV Protection Relays overview
- Switchgear types and principles of operation
- Generator operation
- Control and capability diagrams
- Synchronization
- Load flow and load stability

Assessment Delegates will undertake a multiple-choice examination paper and practical assessment to demonstrate they have achieved the key learning outcomes detailed above.

Certification



City & Guilds 0672 Certificate.
(Recommended to be refreshed every 4 years)

PPE Requirements

Safety footwear, coveralls, safety glasses and gloves.

Further Information

Why ASET's High Voltage Training differs from that of its competitors in Scotland:
ASET's High Voltage equipment consists of a full range of HV and LV switchboards which can either be remotely switched through our Electric Control Panel or locally at the boards themselves.

- The primary electrical supply comes from two of ASET's Power Generator and VSD (Variable Synchronised Drives) which allows delegates the opportunity to synchronise and load share during training exercises
- ASET has two fully rated Transformers which feed between HV to LV boards
- ASET's High Voltage technology and equipment is the most up-to-date consisting of Schneider fully rated Circuit Vacuum Breakers on the HV board and fully rated Air Circuit Breakers on our LV boards
- ASET training personnel take delegates through extensive training and assessment on all HV and LV boards using live electrical power which is simulated for safety reasons to 33Kv. This also includes delegates creating suitable switching and isolations:
 - *ASET's exclusive 0672 City & Guilds accredited programme has, over many years, become the entry course and standard in the North Sea and wider UKCS for further authorisations by Electrical personnel
 - *Part of the ASET competency assessment requires course delegates to complete a written examination and a practical assessment to demonstrate the knowledge they have gained throughout the course. This is mandatory for quality assurance and City & Guilds 0672 Certification.

ELECTRICAL ENGINEERING TRAINING

HV SWITCHING AND SYSTEM CONTROL REFRESHER

Duration	Cost per Delegate	Venue
2 Days	£714+VAT	Altens Training Centre

Availability Visit our website for the latest available dates. To enquire about additional dates or to set up a course specifically for your company, please contact the [ASET Customer Service Team](#).

About this Course

Target Audience Personnel who have attended ASET's exclusive HV Switching & System Control (City & Guilds 0672) course in the last 4 years and who are now required to demonstrate their competence or update their knowledge with an industry recommendation.

Prerequisites Delegates are required to have previously completed ASET's exclusive City & Guilds 0672 HV Switching and System Control or ASET's HV Switching & System Control Refresher course within the previous 4 years.

Practical Content 60% **Theoretical Content** 40%

Key Learning Outcomes

- An understanding of the Health and Safety procedures on HV/LV electrical systems.
- Ability to interpret the operational requirements of system control on electrical distribution systems.
- Illustrate an understanding of pre-prepared switching and isolation systems.

Course Content

- Safety Regulations Health and Safety at Work etc Act 1974, The Electricity at Work Regulations 1993
- Dangers of electricity
- Permit to work systems
- Generation of switching programs
- Generator operation

Assessment Delegates will undertake a multiple-choice examination paper to demonstrate they have achieved the key learning outcomes detailed above.

Certification



City & Guilds 0672 Certificate.
(Recommended to be refreshed every 4 years)

PPE Requirements Safety footwear, coveralls, safety glasses and gloves.

Further information Why ASET's High Voltage Training differs from that of its competitors in Scotland:

- ASET's High Voltage equipment consists of a full range of HV and LV switchboards which can either be remotely switched through our Electric Control Panel or locally at the boards themselves.
- The primary electrical supply comes from two of ASET's Power Generator and VSD (Variable Synchronised Drives) which allows delegates the opportunity to synchronise and load share during training exercises
- ASET has two fully rated Transformers which feed between HV to LV boards
- ASET's High Voltage technology and equipment is the most up-to-date consisting of Schneider fully rated Circuit Vacuum Breakers on the HV board and fully rated Air Circuit Breakers on our LV boards
- ASET training personnel take delegates through extensive training and assessment on all HV and LV boards using live electrical power which is simulated for safety reasons to 33Kv. This also includes delegates creating suitable switching and isolations.

ELECTRICAL ENGINEERING TRAINING

IET WIRING REGULATIONS 18TH EDITION (BS 7671)

Duration	Cost per Delegate	Venue
3 Days	£607+VAT	Altens Training Centre

Availability Visit our website for the latest available dates. To enquire about additional dates or to set up a course specifically for your company, please contact the [ASET Customer Service Team](#).

About this Course

Target Audience Electricians, electrical supervisors and persons responsible for electrical management.

Prerequisites There are no prerequisites for this course.

Practical Content 0% **Theoretical Content** 100%

Key Learning Outcomes To update the knowledge of electrical and electrical design personnel to the 18th Edition of the IET Wiring Regulations.

Course Content

- Numbering system, definitions and scope of the regulations
- Guidance on The Electricity at Work Regulations 1989
- Assessment of general characteristics
- Shock protection requirements
- Protective conductors, earthing and bonding
- Overcurrent protection
- Selection of cables
- Isolation and switching requirements
- Selection and installation of equipment
- Special installations
- Inspection and testing

Assessment Delegates will undertake an online open book multiple-choice examination paper to demonstrate they have achieved the key learning outcomes detailed above.

Certification



City & Guilds 2382-22 Certificate.

PPE Requirements PPE not required.

ELECTRICAL ENGINEERING TRAINING

IET WIRING REGULATIONS 18TH EDITION UPDATE (BS 7671:2018)

Duration	Cost per Delegate	Venue
1 Day	£281+VAT	Altens Training Centre

Availability Visit our website for the latest available dates. To enquire about additional dates or to set up a course specifically for your company, please contact the [ASET Customer Service Team](#).

About this Course

Target Audience To update the knowledge of electrical and electrical design personnel from the 17th Edition 3rd amendment to the 18th Edition of the IET Wiring Regulations.

Prerequisites Delegates are required to have previously completed IET Wiring Regulations 17th Edition Amendment 3 (Yellow Book).

Practical Content 0% **Theoretical Content** 100%

Key Learning Outcomes To update the knowledge of electrical and electrical design personnel to the 18th Edition of the IET Wiring Regulations.

Course Content

- Numbering system, definitions and scope of the regulations
- Guidance on the EAW Regulations 1989
- Assessment of general characteristics
- Shock protection requirements
- Protective conductors, earthing and bonding
- Overcurrent protection
- Selection of cables
- Isolation and switching requirements
- Selection and installation of equipment
- Special installations
- Inspection and testing
- Appendices
- Overview of key changes from 17th edition 3rd amendment to the 18th edition

Assessment Delegates will undertake an online open book multiple-choice examination paper to demonstrate they have achieved the key learning outcomes detailed above.

Certification



City & Guilds 2382-22 Certificate.

PPE Requirements PPE not required.

ELECTRICAL ENGINEERING TRAINING

POWER SYSTEM PROTECTION (PROTECTION RELAYS)

Duration	Cost per Delegate	Venue
3 Days	£893+VAT	Altens Training Centre

Availability Visit our website for the latest available dates. To enquire about additional dates or to set up a course specifically for your company, please contact the [ASET Customer Service Team](#).

About this Course

Target Audience Electrical personnel involved with the operation and maintenance of power system protection schemes.

Prerequisites There are no prerequisites for this course.

Practical Content 70% **Theoretical Content** 30%

Key Learning Outcomes


- Understanding of the operating principles, techniques and setting procedures.
- Understanding information and instruction in the safe operating procedures for electrical protection schemes.
- Interpretation of protection fault indications and appropriate corrective actions, along with maintenance of HV and LV protection relays.

Course Content

- Faults and fault levels
- Principles of selectivity
- Measurement
- Earth fault and earth leakage protection
- Differential protection
- Generation protection
- Transformer protection
- Motor protection

Assessment Delegates will undertake a multiple-choice examination paper to demonstrate they have achieved the key learning outcomes detailed above.

Certification

 City & Guilds 9841 Certificate
(Recommended to be refreshed every 4 years).

PPE Requirements Safety footwear, coveralls, safety glasses and gloves.

Further Information This is a classroom based course with practical training exercises to underpin knowledge gained.

Why does ASET's Power System Protection (Protection Relays) course differs from that of its competitors in Scotland? Unlike our competitors ASET uses up to ten different types of protection relays which include a range of Static, Electro Mechanical and Micro Processor relays which offer:

- EF/OC Protection
- Generator Protection (Field Failure and Reverse Power)
- Motor Protection (Thermal Protection)
- Transformer Protection
- Voltage Dependent O/C Protection
- Trip Circuit Supervision
- Lock Out

ELECTRICAL ENGINEERING TRAINING

EAL LEVEL 3 AWARD IN INITIAL VERIFICATION AND PERIODIC INSPECTION AND TESTING OF ELECTRICAL INSTALLATIONS (EAL 600/4337/4 + 600/4338/6)

Duration	Cost per Delegate	Venue
5 Days	£887+VAT	Altens Training Centre

Availability Visit our website for the latest available dates. To enquire about additional dates or to set up a course specifically for your company, please contact the [ASET Customer Service Team](#)..

About this Course

Target Audience Electrical personnel involved in initial and periodic inspecting and testing of electrical installations. Ideal preparation for anyone applying for Approved Contractor Scheme status/ approval (NICEIC, ECA, NAPIT and SELECT).

Prerequisites Delegates are required to be practicing electricians and hold the following:

- Level 3 Electrotechnical qualification or
- ECS Gold Card, JIB Electrician or Approved Electrician Card

Delegates are also required to bring photographic ID such as a passport or driving license in order to sit the assessments on this course.

Practical Content 60% **Theoretical Content** 40%

Key Learning Outcomes

- Gain an understanding of the theory and practice of the initial verification and commissioning of both single and three phase electrical installations.
- Gain the skills and knowledge required to carry out periodic inspection, testing and condition reporting, of both single and three phase electrical installations.


Course Content

- Safe isolation procedures and equipment
- Requirements of periodic and initial inspection and testing
- Safe use of test equipment
- Completing inspection & testing documentation
- Continuity of protective conductors
- Continuity of ring final circuit conductors
- Insulation resistance
- Protection by SELV
- Polarity
- Earth electrode resistance
- Earth fault loop impedance
- RCD testing
- Prospective fault current
- Phase rotation
- Functional testing
- Verification of volt drop

Assessment

- 90 minute Initial Verification online open book exam
- 60 minute Periodic Inspection & Testing online open book exam
- Practical exercises

Certification

 Part of the **Enginuity Group**

EAL Level 3 Award in Initial Verification and Certification of Electrical Installations (QCF) 600/4337/4
EAL Level 3 Award in Periodic Inspection and Testing of Electrical Installations (QCFD) 600/4338/6

PPE Requirements Safety footwear, coveralls, safety glasses and gloves.

ELECTRICAL ENGINEERING TRAINING

LEVEL 3 AWARD IN THE DESIGN AND INSTALLATION OF DOMESTIC AND SMALL COMMERCIAL ELECTRIC VEHICLE CHARGING INSTALLATIONS

Duration	Cost per Delegate	Venue
2 Days	£622+VAT	Altens Training Centre

Availability Visit our website for the latest available dates. To enquire about additional dates or to set up a course specifically for your company, please contact the [ASET Customer Service Team](#).

About this Course

Target Audience This course is intended for experienced electricians and installers who are looking to enhance their current skillset to allow them to install domestic, commercial and 'on street' vehicle charging points.

Prerequisites Delegates are required to be practicing electricians and hold the following:

- Level 3 Electrotechnical qualification or
- ECS Gold Card, JIB Electrician or Approved Electrician Card

Delegates are also required to bring photographic ID such as a passport or driving license in order to sit the assessments on this course.

Practical Content 0% **Theoretical Content** 100%

Key Learning Outcomes

- Know the key requirements relating to electric vehicle charging equipment.
- Understand the advantages and disadvantages of different types of electric vehicle charging arrangements and equipment.
- Understand the planning and preparation for design and installation of electric vehicle charging equipment.
- Understand the requirements for inspection, testing, commissioning and handover of electric vehicle charging.

Course Content

- Introduction to electric vehicles - electric vehicle types, characteristics, charging requirements, safety considerations
- Overview of electric vehicle charging - modes of charging and requirements, restrictions
- Electrical installation requirements - supply, earthing, planning permission, explosive atmospheres, protection, labelling, control, risk assessment
- Installation - practical domestic and commercial installation
- Inspection, test and certification - commissioning and DNO paperwork
- System test, fault finding and examination - includes both a practical and written assessments

Assessment Delegates will undertake a short answer and scenario based questions assessment and an online multiple-choice examination paper to demonstrate they have achieved the key learning outcomes detailed above.

Certification



City & Guilds Level 3 award in the Design and Installation of Domestic and Small Commercial Electric Vehicle Charging Installations (2921- 31).

PPE Requirements PPE not required.

ELECTRICAL ENGINEERING TRAINING

LEVEL 3 AWARD IN THE IN-SERVICE INSPECTION AND TESTING OF ELECTRICAL EQUIPMENT (PAT TESTING)

Duration	Cost per Delegate	Venue
1½ Days	£362+VAT	Altens Training Centre

Availability Visit our website for the latest available dates. To enquire about additional dates or to set up a course specifically for your company, please contact the [ASET Customer Service Team](#).

About this Course

Target Audience Electrical personnel who are involved in the management, inspection and testing of portable electrical equipment.

Prerequisites There are no prerequisites for this course.

Practical Content 30% **Theoretical Content** 70%

Key Learning Outcomes Develop the knowledge and practical skills required to professionally carry out inspection and testing on electrical installations in accordance with IET Codes of Practice.

Course Content

- Demonstration of the management procedures
- Testing procedures
- Completion of test result forms
- Hands-on testing of portable equipment and evaluation of test results

Assessment Delegates will undertake a practical assessment and an online open book multiple-choice examination paper to demonstrate they have achieved the key learning outcomes detailed above.

Certification



City & Guilds 2377 Certificate.

PPE Requirements PPE not required.

ELECTRICAL ENGINEERING TRAINING

AUTHORISED PERSON: HIGH VOLTAGE SYSTEMS AND OPERATIONAL SAFETY

Duration	Cost per Delegate	Venue
5 Days	£1,433+VAT	Altens Training Centre

Availability Visit our website for the latest available dates. To enquire about additional dates or to set up a course specifically for your company, please contact the [ASET Customer Service Team](#).

About this Course

Target Audience Offshore and onshore electrical personnel who are involved with the operation and maintenance of electrical switchboards and associated electrical installation equipment.

Prerequisites There are no prerequisites for this course.

Practical Content 70% **Theoretical Content** 30%

Key Learning Outcomes

- Understand the application of safe working procedures within HV operations.
- Understanding the operational functions of HV systems in a safe manner.
- Understanding of the requirements for maintaining HV systems.

Course Content

- Electrical safety rules and legislation including Health and Safety at work etc Act 1974 and The Electricity at Work Regulations 1989
- Safety documentation applications
- High Voltage switching and isolations practicals
- Generator systems controls
- Understanding and testing of protection relays
- Fault finding on HV switchboards
- Servicing of HV circuit breakers and testing procedures

Assessment Delegates will undertake a multiple-choice examination paper to demonstrate they have achieved the key learning outcomes detailed above.

Certification



City & Guilds 9841 Certificate.

PPE Requirements Safety footwear, coveralls, safety glasses and gloves.

Further Information This course is classroom based with practical training exercises using ASET's High Voltage equipment to underpin knowledge gained.

ELECTRICAL ENGINEERING TRAINING

AUTHORISED PERSON: LOW VOLTAGE SYSTEMS

Duration	Cost per Delegate	Venue
3 Days	£887+VAT	Altens Training Centre

Availability Visit our website for the latest available dates. To enquire about additional dates or to set up a course specifically for your company, please contact the [ASET Customer Service Team](#).

About this Course

Target Audience Experienced engineering personnel who may be appointed as Authorised Person (Electrical Low Voltage).

Prerequisites There are no prerequisites for this course.

Practical Content 50% **Theoretical Content** 50%

Key Learning Outcomes

- Understand the functions and operational requirements of low voltage systems.
- Identify the required maintenance and testing of low voltage systems.
- Understand the application and requirements for working safely on low voltage systems.

Course Content

- Safe working practices
- Requirements of The Electricity at Work Regulations 1989
- Low voltage switchgear
- Protection principles
- Motor principles and testing
- Safe isolation
- Roles and responsibilities
- Low voltage procedures
- Practical exercises on plant and single phase/poly phase systems demonstrating safe working and completing the appropriate documentation

Assessment Delegates will undertake a multiple-choice examination paper to demonstrate they have achieved the key learning outcomes detailed above.

Certification



City & Guilds 9841 Certificate.

PPE Requirements Safety footwear, coveralls, safety glasses and gloves.

Further Information This course is classroom based with practical training exercises to underpin knowledge gained.

ELECTRICAL ENGINEERING TRAINING

COMPETENT ELECTRICAL PERSON: LOW VOLTAGE SYSTEMS

Duration	Cost per Delegate	Venue
2 Days	£520+VAT	Altens Training Centre

Availability Visit our website for the latest available dates. To enquire about additional dates or to set up a course specifically for your company, please contact the [ASET Customer Service Team](#).

About this Course

Target Audience Electrical personnel who are involved in the operation and maintenance of Low Voltage electrical installations.

Prerequisites There are no prerequisites for this course.

Practical Content 70% **Theoretical Content** 30%

Key Learning Outcomes

- Understand the function and operational requirements of low voltage systems.
- Identify the required maintenance and testing of low voltage systems.
- Understand the application of the requirements for working safely on low voltage systems.

Course Content

- Electrical safety rules and legislation including Health and Safety at Work etc Act 1974 and The Electricity at Work Regulations 1989
- Safety documentation
- Practical isolations of platform plant motors and testing according to a Planned Maintenance Routine (PMR)
- Hazardous areas applications
- Practical applications of hazardous areas Universal and Barrier Glands
- Earth Loop Impedance and Insulation Resistance Testing

Assessment Delegates will undertake a multiple-choice examination paper to demonstrate they have achieved the key learning outcomes detailed above.

Certification



City & Guilds 9841 Certificate.

PPE Requirements Safety footwear, coveralls, safety glasses and gloves.

Further Information This is a classroom based course with practical training exercises underpinning knowledge gained.

ELECTRICAL ENGINEERING TRAINING

SENIOR AUTHORISED PERSON: HIGH VOLTAGE OPERATIONS AND SAFETY

Duration	Cost per Delegate	Venue
5 Days	£1,433+VAT	Altens Training Centre

Availability Visit our website for the latest available dates. To enquire about additional dates or to set up a course specifically for your company, please contact the [ASET Customer Service Team](#).

About this Course

Target Audience Electrical personnel competent in operating and maintaining high voltage switchgear systems who are looking to move into a Senior Authorised Person role.

Prerequisites There are no prerequisites for this course.

Practical Content 75% **Theoretical Content** 25%

Key Learning Outcomes

- Understand the application of safe working procedures within HV operations.
- Ability to interpret the operational functions and maintenance of HV systems.
- Knowledge of rules and regulations pertaining to HV systems.

Course Content

- Electrical safety rules and Legislation including Health and Safety at Work etc Act 1974 and The Electricity at Work Regulations 1989
- Safety documentation applications
- High Voltage switching and isolations practicals
- Generator systems controls
- Understanding and testing of protection relays
- Fault finding on HV switchboards
- Servicing of HV circuit breakers and testing procedures

Assessment Delegates will undertake a multiple-choice examination paper to demonstrate they have achieved the key learning outcomes detailed above.

Certification



City & Guilds 9841 Certificate.

PPE Requirements Safety footwear, coveralls, safety glasses and gloves.

Further information This course is classroom based with practical training exercises using ASET's High Voltage equipment to underpin knowledge gained.

ELECTRICAL ENGINEERING TRAINING

SENIOR AUTHORISED PERSON: HIGH VOLTAGE SYSTEMS

Duration	Cost per Delegate	Venue
5 Days	£1,433 +VAT	Altens Training Centre

Availability Visit our website for the latest available dates. To enquire about additional dates or to set up a course specifically for your company, please contact the [ASET Customer Service Team](#).

About this Course

Target Audience Senior electrical personnel who are going to be/are responsible for the safety, how the job is planned, how the job is done, how the job is completed and signed off, by others performing high voltage work, e.g. Authorised Electrical Person (AEP), contractors.

Prerequisites There are no prerequisites for this course.

Practical Content 40% **Theoretical Content** 60%

Key Learning Outcomes

- Identify the safe working practices and procedures of working on HV/LV Switchgear.
- Understanding of the application of safe working procedures to HV/LV Switchgear and Protection Relays.
- Understand and define the operation of the HV/LV system.

Course Content

- Safety Regulations Health and Safety at Work etc Act 1974 The Electricity at Work Regulations 1989
- HSE HV Publications
- Exercises on HV/LV Safe Isolation procedures, switchgear and transformers
- HV/LV fault finding
- HV/LV protection
- Safety documentation and equipment with regards to switchgear

Assessment Delegates will undertake a multiple-choice examination paper to demonstrate they have achieved the key learning outcomes detailed above.

Certification



City & Guilds 9841 Certificate.

PPE Requirements Safety footwear, coveralls, safety glasses and gloves.

Further information This course is classroom based with practical exercises using ASET's High Voltage equipment to underpin knowledge gained.

ELECTRICAL ENGINEERING TRAINING

HIGH VOLTAGE CIRCUIT BREAKER SERVICE AND MAINTENANCE

Duration	Cost per Delegate	Venue
2 Days	£724+VAT	Altens Training Centre

Availability Visit our website for the latest available dates. To enquire about additional dates or to set up a course specifically for your company, please contact the [ASET Customer Service Team](#).

About this Course

Target Audience Engineering personnel involved with power distribution networks, and the use of site operated switchgear, either onshore, offshore or onboard vessels.

Prerequisites There are no prerequisites for this course.

Practical Content 70% **Theoretical Content** 30%

Key Learning Outcomes

- Understand the functions and operational requirements of HV/LV electrical switchgear and distribution systems.
- Identify the requirements of maintaining and testing of oil, vacuum and air circuit breakers.
- Understanding and interpretation of the requirements for safe working within HV/LV areas.

Course Content

- Importance of adequate maintenance on HV breakers
- Electrical safety rules and regulations
- Safe isolations procedures
- Introduction to switchgear, types of breakers and operation
- Hands-on servicing and testing of HV breakers
- Circuit breaker analyser testing and use of associated software

Assessment Delegates will undertake a multiple-choice examination paper to demonstrate they have achieved the key learning outcomes detailed above.

Certification



City & Guilds 9841 Certificate

PPE Requirements Safety footwear, coveralls, safety glasses and gloves.

Further Information This is a classroom based course with practical training exercises to underpin knowledge gained.

ELECTRICAL ENGINEERING TRAINING

HIGH VOLTAGE SYSTEMS MAINTENANCE AND INSPECTION

Duration	Cost per Delegate	Venue
2 Days	£515+VAT	Altens Training Centre

Availability Visit our website for the latest available dates. To enquire about additional dates or to set up a course specifically for your company, please contact the [ASET Customer Service Team](#).

About this Course

Target Audience Electrical personnel who require a knowledge of what is involved with the safe operation and maintenance of High Voltage electrical switchboards for future electrical authorisations under on-site assessment.

Prerequisites There are no prerequisites for this course.

Practical Content 70% **Theoretical Content** 30%

Key Learning Outcomes

- Gain a knowledge of maintenance, repair and subsequent testing of various types of HV/LV switchgear.
- Demonstrate an understanding of preventative maintenance.
- Understanding of the requirements for working safely on HV/LV equipment and within HV/LV areas.

Course Content

- Electrical safety Including The Electricity at Work Regulations 1989
- Safety documentation authorisation and applications
- Production of switching and isolation documents as per tasks request
- Performing isolation procedures as authorised
- Carrying out electrical tests as requested in a Planned Maintenance Routine (PMR)

Assessment Delegates will undertake a multiple-choice examination paper to demonstrate they have achieved the key learning outcomes detailed above.

Certification



City & Guilds 9841 Certificate.

PPE Requirements Safety footwear, coveralls, safety glasses and gloves.

Further Information This is a classroom based course with practical training exercises to underpin knowledge gained.

ELECTRICAL ENGINEERING TRAINING

ADVANCED HIGH VOLTAGE SYSTEM MAINTENANCE AND INSPECTION

Duration	Cost per Delegate	Venue
5 Days	£1,433+VAT	Altens Training Centre

Availability Visit our website for the latest available dates. To enquire about additional dates or to set up a course specifically for your company, please contact the [ASET Customer Service Team](#).

About this Course

Target Audience Experienced personnel who are ultimately responsible for the safe working of High Voltage Equipment, and for Senior Authorised Electrical Persons (SAEPs). Authorised Persons (APs) who carry out the routine maintenance, inspection, periodic testing of HV Switchboards and associated breakers, transformers, generators, motors and electrical protection.

Prerequisites There are no prerequisites for this course.

Practical Content 60% **Theoretical Content** 40%

Key Learning Outcomes

- Gain an advanced knowledge of the maintenance, repair and subsequent testing of HV/LV switchgear.
- Demonstrate an advanced understanding of preventative maintenance.
- Understanding of the requirements for working safely on HV/LV equipment within an HV/LV area.

Course Content

- Safety Regulations Health and Safety at Work etc Act 1974
- The Electricity at Work Regulations 1989
- HSE High Voltage publications
- Electric shock, first aid
- Permit to Work, risk assessment
- Predictive maintenance, method statements
- Isolation Certificate
- Case studies/videos
- Practical exercises
- Polarisation Index of transformers, & HV motors
- Ductor testing and torqueing up of Switchboard Bus Bars
- Routine maintenance of HV circuit breaker
- Application of CME & Busbar earths
- Check settings of all HV switchboard protection relays

Assessment Delegates will undertake a multiple-choice examination paper to demonstrate they have achieved the key learning outcomes detailed above.

Certification



City & Guilds 9841 Certificate.

PPE Requirements Safety footwear, coveralls, safety glasses and gloves.

Further Information This is a classroom based course with practical training exercises underpinning knowledge gained.

ELECTRICAL ENGINEERING TRAINING

HIGH VOLTAGE SYSTEMS TECHNICAL AWARENESS

Duration	Cost per Delegate	Venue
3 Days	£887+VAT	Altens Training Centre

Availability Visit our website for the latest available dates. To enquire about additional dates or to set up a course specifically for your company, please contact the [ASET Customer Service Team](#).

About this Course

Target Audience Electrical maintenance personnel who need to gain an understanding of high voltage/low voltage systems and their operation.

Prerequisites There are no prerequisites for this course.

Practical Content 50% **Theoretical Content** 50%

Key Learning Outcomes

- An understanding of High Voltage electrical systems.
- Application of legislation & standards to HV systems.
- Understanding of requirements for working safely within HV areas.

Course Content

- Health & Safety at Work etc Act 1974
- The requirements of The Electricity at Work Regulations 1989
- Testing
- Protection principles
- Transformer theory & maintenance
- Earthing principles & testing
- Maintenance techniques
- Switchgear operation & testing

Assessment Delegates will undertake a multiple-choice examination paper to demonstrate they have achieved the key learning outcomes detailed above.

Certification



City & Guilds 9841 Certificate.

PPE Requirements Safety footwear, coveralls, safety glasses and gloves.

Further Information Classroom based with practical training to underpin knowledge gained and exclusively uses ASET's High Voltage equipment which consists of a full range of HV and LV switchboards which can either be remotely switched through our Electric Control Panel or locally at the boards themselves.

ELECTRICAL ENGINEERING TRAINING

HV/LV SAFE WORKING PRACTICES AWARENESS

Duration	Cost per Delegate	Venue
1 Day	£275+VAT	Altens Training Centre

Availability Visit our website for the latest available dates. To enquire about additional dates or to set up a course specifically for your company, please contact the [ASET Customer Service Team](#).

About this Course

Target Audience Personnel with electrical, instrument or mechanical background within industry who require a basic understanding of HV/LV safe working practices.

Prerequisites There are no prerequisites for this course.

Practical Content 30% **Theoretical Content** 70%

Key Learning Outcomes

- Gain an understanding of switchgear elements and operations.
- Understand the requirements of pre-prepared switching and isolation programmes.
- Gain an awareness of Health and Safety procedures involved in safe isolation of HV/LV equipment.

Course Content

- HSE and Electricity at Work Regulations
- Task Risk Assessments
- Authorisations
- Effects of faults on switchgear
- Permit to Work systems
- Switchgear types and principles of operation
- Generation of switching and isolation programs
- Overview of HV/LV Protection Relays with practical demonstration of Relay Discrimination Scheme

Assessment Delegates will undertake a multiple-choice examination paper to demonstrate they have achieved the key learning outcomes detailed above.

Certification



City & Guilds 9841 Certificate.

PPE Requirements Safety footwear, coveralls, safety glasses and gloves.

Further Information This is a classroom based course with practical training exercises underpinning knowledge gained.

ELECTRICAL ENGINEERING TRAINING

BACK UP SYSTEMS

Duration	Cost per Delegate	Venue
3 Days	£887+VAT	Clinterty Training Centre

Availability Visit our website for the latest available dates. To enquire about additional dates or to set up a course specifically for your company, please contact the [ASET Customer Service Team](#).

About this Course

Target Audience Personnel with electrical & instrumentation background within industry who require an understanding of generator battery & UPS back-up systems.

Prerequisites There are no prerequisites for this course.

Practical Content 60% **Theoretical Content** 40%

Key Learning Outcomes

- Knowledge of back-up electrical systems including installation, inspection and maintenance as per the requirements of the, BS EN and IEC standards.
- Understanding of the different types of back-up systems including UPS, Battery and Generator set ups.
- Understand the roles and responsibilities for both duty holder and employees for maintenance purposes in alignment with regulations.

Course Content

- Definitions and terms
- Topologies
- BS7671: Requirements for Electrical Installations - IET Wiring Regulations
- EN/IEC standards for back-up systems
- Safe Working Practices
- Documentation, Labelling, Isolation, Cable Types, Inspections, Maintenance

Assessment Delegates will undertake a multiple-choice examination paper to demonstrate they have achieved the key learning outcomes detailed above.

Certification



City & Guilds 9841 Certificate.

PPE Requirements Safety footwear, coveralls, safety glasses and gloves.

Further Information This is a classroom based course with practical training exercises underpinning knowledge gained.

ELECTRICAL ENGINEERING TRAINING

ECS HEALTH AND SAFETY ASSESSMENT (ECS CARD)

Duration	Cost per Delegate	Venue
30 minutes	£54+VAT	Altens Training Centre

About this Assessment

- Electricians obtaining or renewing a SJIB Grade (ECS) Card are required to demonstrate an acceptable standard of health and safety knowledge by passing the Electrotechnical Certification Scheme (ECS) Health and Safety Assessment.
- The ASET International Energy Training Academy is a Scottish Joint Industry Board (SJIB) approved Venue, supplying invigilation and administration for participants completing the 30 minute ECS Health and Safety Assessment, made up of 50 multiple choice questions (for more information please refer to the ECS Health and Safety Assessment Revision Guide).
- The completed assessments will be returned to the SJIB and resulted within 3-4 weeks. Participants who successfully complete the assessment will be awarded a certificate that is acceptable to SJIB for renewal of their ECS card. The ECS Health and Safety certificate is valid for 3 years.

How to book this course

To book this assessment email or call the [ASET Customer Service Team](#) on:
Telephone: **+44 (0) 300 330 5559** Email: asetbookings@aset.co.uk

ELECTRICAL ENGINEERING TRAINING

ELECTRICITY AT WORK REGULATIONS

Duration	Cost per Delegate	Venue
1/2 Day	£321+VAT	Altens Training Centre

Availability Visit our website for the latest available dates. To enquire about additional dates or to set up a course specifically for your company, please contact the [ASET Customer Service Team](#).

About this Course

Target Audience Electricians, supervisors and electrical management.

Prerequisites There are no prerequisites for this course.

Practical Content 0% **Theoretical Content** 100%

Key Learning Outcomes

- Identify the legal requirements of the relationship of the regulations with other codes of practice.
- Understand and explain the implications of The Electricity at Work Regulations 1989.
- Identify who are specified as competent persons within the regulations.

Course Content

- Citation & Commencement
- Interpretation
- Duties
- Systems, work activities and protective equipment
- Strength and capability of electrical equipment
- Adverse or hazardous environments
- Insulation, protection and placing of conductors
- Earthing or other suitable precautions
- Integrity of referenced conductors
- Connections
- Means for protecting from excess of current
- Means for cutting off the supply and for isolation
- Precaution for work on equipment made dead
- Work on or near live conductors
- Working space, access and lighting
- Persons to be competent to prevent danger and injury
- Defence

Assessment Delegates will undertake a multiple-choice examination paper to demonstrate they have achieved the key learning outcomes detailed above.

Certification



City & Guilds Certificate 9841.

PPE Requirements PPE not required.

Further Information This is a classroom based course.

ELECTRICAL ENGINEERING TRAINING

EMERGENCY ESCAPE LIGHTING

Duration	Cost per Delegate	Venue
2 Days	£617+VAT	Clinterty Training Centre

Availability Visit our website for the latest available dates. To enquire about additional dates or to set up a course specifically for your company, please contact the [ASET Customer Service Team](#).

About this Course

Target Audience Electrical personnel who require a working knowledge and understanding of the Emergency Escape Lighting legal requirements - Regulatory Reform (Fire Safety) Order (RRFSO) and the HSE's Offshore Semi Permanent Circulars SPC/TECH/OSD/40.

Prerequisites There are no prerequisites for this course.

Practical Content 50% **Theoretical Content** 50%

Key Learning Outcomes

- Understand the functions and operational requirements of Emergency Escape Lighting.
- Knowledge of the installation, maintenance and testing required within Emergency Escape Lighting.
- Understand the application of the rules and regulations imposed on Emergency Escape Lighting.

Course Content

- Safety Regulations Health and Safety at Work etc Act 1974
- The Electricity at Work Regulations 1989
- Electric shock, first aid
- Recommendations
- Routine maintenance
- Testing
- Risk assessment
- Practical exercises on light level checks

Assessment Delegates will undertake a multiple-choice examination paper to demonstrate they have achieved the key learning outcomes detailed above.

Certification

 City & Guilds 9841 Certificate.

PPE Requirements Safety footwear, coveralls, safety glasses and gloves.

Further information This is a classroom based course with practical training exercises to underpin knowledge gained.

EMERGENCY RESPONSE TRAINING

CUSTOMER FEEDBACK

"Instructors were amazing and showed a wealth of knowledge. Great course!"

Graeme Moir, Bluewater Services
CRO
February 2024

"Excellent course which helps re-align your emergency response approach to fully comply with the OPITO standard. Excellent support from the team."

Rod Plowman, Dana Petroleum
OIM
March 2024

"One of the most interactive and well put together courses I have been on. Really do learn a lot!"

Siobhan Newberry, Shell
MEMIR
January 2024

"Great course delivered by Phil, very in depth and very realistic scenarios, also great info received on the de-briefs regarding what mistakes I had done and how to correct them!"

Stephen McAlweenie, TAQA Bratani
Intro to CRO
March 2024

EMERGENCY RESPONSE TRAINING

CONTROL ROOM OPERATOR EMERGENCY RESPONSE

Duration	Cost per Delegate	Venue
2 Days	£2,627+VAT	Altens Training Centre
		Remote Training Simulation Available

Availability Visit our website for the latest available dates. To enquire about additional dates or to set up a course specifically for your company, please contact the [ASET Customer Service Team](#).

About this Course

Target Audience The Control Room Operator (CRO) Emergency Response assessment programme is designed for personnel who are about to be appointed to a CRO position or who are already serving as a CRO.

Prerequisites A Duty Holder declaration and supporting evidence from employer confirming the learner has achieved the performance criteria in Outcome 1 and 2 and asset information is to be provided as per the OPITO standard.

Delegates will also be required to supply a Government issued photographic ID on arrival to the course.

Practical Content 80% **Theoretical Content** 20%

Key Learning Outcomes Assess the knowledge and skills of candidate in the role of the CRO during an emergency situation in a simulated environment.

Course Content

- Recognising and dealing with stress during critical situations
- Assertiveness techniques during critical situations
- Decision-making skills
- Communication skills
- Practice scenarios

Assessment Delegates will be assessed against the set performance criteria under simulated conditions using a minimum of two and a maximum of three emergency scenarios based on the type of asset the candidate is normally required to fulfil the CRO role as agreed and confirmed by the Duty Holder.

Certification

 OPITO Certificate.

PPE Requirements PPE not required.

Further Information Delegates should be aware that there are elements within the course which could prove to be stressful in nature. It is the responsibility of both the sponsoring company and the delegate to highlight any concerns regarding delegate fitness to participate on this course. Delegates will be required to fill in a self-assessment medical form on arrival.

This course exclusively uses ASET's state of the art, live and interactive onshore and offshore production operations computer based simulation software which simulates a Control Room environment.

EMERGENCY RESPONSE TRAINING

INTRODUCTION TO CRO EMERGENCY RESPONSE ROLE AND RESPONSIBILITIES

Duration

2 Days

Cost per Delegate

£2,142+VAT

Venue

Altens Training Centre

Remote Training Simulation Available

Availability

Visit our website for the latest available dates. To enquire about additional dates or to set up a course specifically for your company, please contact the [ASET Customer Service Team](#).

About this Course**Target Audience**

This course is aimed at new or potential Control Room Operators (CRO)'s.

Prerequisites

There are no prerequisites for this course.

Practical Content

80%

Theoretical Content 20%

Key Learning Outcomes

- Understand the correct communications and actions to be made before, during and after an emergency.
- Understand the roles of offshore emergency personnel.
- Identification of emergency situations.
- Understand need for awareness of personnel safety during emergencies.
- Recognise environmental factors and their effect on emergency situations.

Course Content

The training commences with an introduction to the role of the CRO in interpreting control systems from within a centralised control room environment to identify developing critical and emergency situations. This moves on to training in the management of emergency situations in the control room including a theory assessment and covering the below:

- Process operating procedures
- Fire and gas detection systems
- Alarm management and interpretation
- Checklists and incident logging
- Emergency shutdown & blow-down systems
- Emergency response roles and responsibilities
- Stress management

Assessment

Delegates will undertake a multiple-choice examination paper and emergency response simulated scenarios to demonstrate they have achieved the key learning outcomes listed above.

Certification

ASET International Energy Training Academy Certificate.

PPE Requirements

PPE not required.

Further Information

This course exclusively uses ASET's state of the art, live and interactive onshore and offshore production operations computer based simulation software which simulates a Control Room environment.

EMERGENCY RESPONSE TRAINING

MAJOR EMERGENCY MANAGEMENT INITIAL RESPONSE FOR RENEWABLE ENERGY (WIND)

Duration	Cost per Delegate	Venue
3 Days	Please contact us for details.	Altens Training Centre
		Remote Training Simulation Available

Availability Visit our website for the latest available dates. To enquire about additional dates or to set up a course specifically for your company, please contact the [ASET Customer Service Team](#).

About this Course

Target Audience Personnel who are either in charge of, are members of, or provide support to an emergency management team, in an emergency.

Prerequisites Delegates are required to supply a Government issued photographic ID on starting the course.

Practical Content 60% **Theoretical Content** 40%

Key Learning Outcomes

- Understand the key factors of preparing for, responding to, and maintaining control throughout the development or escalation of an emergency situation in the Renewable Energy industry.
- Learn how to manage communication, emergency-related information and put into place predetermined plans at the point when the emergency alarm has been raised, to the point when the emergency manager is assured that the emergency is over.
- Understand how stress can impact on individuals and team performance during emergencies.
- Have the opportunity to role-play as the emergency manager in a minimum of two specific types of emergency scenarios. This is a key element of the training programme and is backed up by constructive feedback from the course instructional team.

Course Content

Theory of Major Emergency Management:

- Major emergencies
- The emergency manager
- Emergency command center (ECC) facilities and information management
- Preplanning and maintaining a state of readiness
- Dealing with stress

Practical Elements of Major Emergency Management:

- Assessing the situation
- Taking effective action
- Maintaining communication
- Delegating authority
- Management of team and self

Assessment Evaluation of delegates will be by continuous observation during command centre simulations, at least two of which must be as the Emergency Manager, each based around a major incident. Delegates will also receive a written analysis of any gaps that exist in their current managerial knowledge and capabilities for commanding a major emergency. These gaps should be met by further training and workplace drills and exercises, at their company's discretion.

Certification

 OPITO Certificate.

PPE Requirements PPE not required.

Further Information Delegates should be aware that there are elements within the course which could prove to be stressful in nature. It is the responsibility of both the sponsoring company and the delegate to highlight any concerns regarding delegate fitness to participate on this course. Delegates will be required to fill in a self-assessment medical form on arrival.

This course exclusively uses ASET's state of the art, live and interactive process operations computer based simulation software which simulates an Emergency Command Centre (ECC).

EMERGENCY RESPONSE TRAINING

MAJOR EMERGENCY MANAGEMENT INITIAL RESPONSE TRAINING

Duration	Cost per Delegate	Venue
4 Days	£2,749 +VAT	Altens Training Centre
		Remote Training Simulation Available

Availability Visit our website for the latest available dates. To enquire about additional dates or to set up a course specifically for your company, please contact the [ASET Customer Service Team](#).

About this Course

Target Audience Personnel who are either designated as being in charge of, are members of, or provide support to an emergency management team in an emergency.

Prerequisites Delegates are required to supply a Government issued photographic ID on starting the course.

Practical Content 65% **Theoretical Content** 35%

Key Learning Outcomes

- Gain the ability to review, manage and assess the information available in an emergency situation in a timely manner, establishing priorities and taking effective action.
- Understanding on the implementation of predetermined emergency plans and procedures in the context of the current emergency.
- Understand the importance of efficiently communicating information and instructions with all relevant agencies in accordance with guidance and legislation and evaluating progress including communication of changes.
- Knowledge on how to monitor and control resources.
- Develop the skill to recognise and deal with stress in themselves and others and effectively delegate authority and manage individuals and teams.

Course Content

Theory of Major Emergency Management:

- Types of major emergencies and the managers responsibilities
- The emergency manager role
- Emergency command center (ECC) facilities and information management
- Pre-planning and maintaining a state of readiness
- Dealing with stress

Practical Elements of Major Emergency Management:

- Review, manage and assess the information available in an emergency situation in a timely manner
- Establish priorities and take effective action
- Maintaining communications
- Delegating authority and management of team and self

Assessment Evaluation of delegates will be by continuous observation during command centre simulations, at least two of which must be as the Emergency Manager, each based around a major incident. Delegates will also receive a written analysis of any gaps that exist in their current managerial knowledge and capabilities for commanding a major emergency. These gaps should be met by further training and workplace drills and exercises, at their company's discretion.

Certification



OPITO Certificate.

PPE Requirements PPE not required.

Further Information

Delegates should be aware that there are elements within the course which could prove to be stressful in nature. It is the responsibility of both the sponsoring company and the delegate to highlight any concerns regarding delegate fitness to participate on this course. Delegates will be required to fill in a self-assessment medical form on arrival.

This course exclusively uses ASET's state of the art, live and interactive onshore and offshore production operations computer based simulation software which simulates an Emergency Command Centre (ECC).

EMERGENCY RESPONSE TRAINING

OIM CONTROLLING EMERGENCIES

Duration	Cost per Delegate	Venue
2 Days	Please contact us for details.	Altens Training Centre

Availability Visit our website for the latest available dates. To enquire about additional dates or to set up a course specifically for your company, please contact the [ASET Customer Service Team](#).

About this Course

Target Audience Offshore Installation Managers (OIMs), deputy OIMs and emergency deputy OIMs who require OPITO Certification.

Prerequisites A Duty Holder declaration and supporting evidence from employer confirming the learner has achieved the performance criteria in Outcome 1 and asset information is to be provided as per the OPITO standard.

It is the responsibility of the OIM learner's company to supply or approve a Discipline Expert for the assessment process. Where the company will not be supplying a Discipline Expert, ASET must be informed 7 days prior to course commencement.

Delegates will also be required to supply a Government issued photographic ID on starting course.

Practical Content 85% **Theoretical Content** 15%

Key Learning Outcomes Develop the required skills by providing a number of emergency situations where personnel must demonstrate their competence and ability to meet the internationally approved OPITO standards for Offshore Installation Managers and their nominated deputies in Controlling Emergencies.

Course Content In order to be deemed competent to the OPITO Standard, delegates must demonstrate the following elements:

- Maintain a State of Readiness completed in the workplace
- Assess situation and take effective action
- Maintain communications
- Delegate authority to act
- Manage individual and team performance
- Deal with stress in self & others

Assessment Delegates will be assessed against the set performance criteria under simulated conditions using a minimum of two and a maximum of three emergency scenarios based on the type of asset the candidate is normally required to fulfil the OIM role as agreed and confirmed by the Duty Holder.

Certification  OPITO Certificate and Assessor report.

PPE Requirements PPE not required.

Further Information Delegates should be aware that there are elements within the course which could prove to be stressful in nature. It is the responsibility of both the sponsoring company and the delegate to highlight any concerns regarding delegate fitness to participate on this course. Delegates will be required to fill in a self-assessment medical form on arrival.

This course exclusively uses ASET's state of the art, live and interactive onshore and offshore production operations computer based simulation software which simulates an Emergency Command Centre (ECC) environment.

EMERGENCY RESPONSE TRAINING

OIM COACHING – CONTROLLING EMERGENCIES

Duration	Cost per Delegate	Venue
2 Days	Please contact us for details.	Altens Training Centre

Availability Visit our website for the latest available dates. To enquire about additional dates or to set up a course specifically for your company, please contact the [ASET Customer Service Team](#).

About this Course

Target Audience Offshore Installation Managers (OIMs), Deputy OIMs and Emergency Deputy OIMs who require coaching prior to attending the OPITO approved OIM Controlling Emergencies course.

Prerequisites Delegates are required to supply a Government issued photographic ID on starting the course.

Practical Content 85% **Theoretical Content** 15%

Key Learning Outcomes

- Understand the importance of information management and effective communication during an emergency.
- Understanding of the roles of offshore emergency personnel.
- Practice and understand effective delegation and management of an emergency team's performance.
- Recognise and manage the signs of stress.
- Recognise and interpret environmental factors and their effect on emergency situations.

Course Content Classroom and simulator introduction to:

- Assessing the situation & taking effective action
- Maintain communications
- Delegate authority to ac
- Manage individual & team performance
- Deal with stress in self & others
- Constructive feedback on performance

Assessment Delegates will undertake a multiple-choice examination paper and emergency response simulated scenarios to demonstrate they have achieved the key learning outcomes listed above.

Certification  ASET International Energy Training Academy Certificate.

PPE Requirements PPE not required.

Further Information Delegates should be aware that there are elements within the course which could prove to be stressful in nature. It is the responsibility of both the sponsoring company and the delegate to highlight any concerns regarding delegate fitness to participate on this course.

This course exclusively uses ASET's state of the art, live and interactive onshore and offshore production operations computer based simulation software which simulates an Emergency Command Centre (ECC) environment.

EMERGENCY RESPONSE TRAINING

OFFSHORE EMERGENCY RESPONSE AWARENESS

Duration	Cost per Delegate	Venue
1 Day	£ 561 +VAT	Altens Training Centre

Availability Visit our website for the latest available dates. To enquire about additional dates or to set up a course specifically for your company, please contact the [ASET Customer Service Team](#).

About this Course

Target Audience This course is aimed at personnel who may be required to provide onshore support to an Offshore Installation Manager (OIM) during an emergency situation, but have no offshore experience.

Prerequisites There are no prerequisites for this course.

Practical Content 50% **Theoretical Content** 50%

Key Learning Outcomes Give the knowledge and understanding of the OIM's role during an emergency with relation to their role onshore.

Course Content

- Relevant legislation
- Previous offshore incidents
- The role of the OIM in an emergency
- The offshore Emergency Management Team (EMT)
- Resources available to the OIM
- Practical offshore emergency management exercises

Assessment This is a awareness course only there is no formal assessment.

Certification  ASET International Energy Training Academy Certificate.

PPE Requirements PPE not required.

Further Information This course exclusively uses ASET's state of the art, live and interactive onshore and offshore production operations computer based simulation software which simulates an Emergency Command Centre (ECC) environment

EMERGENCY RESPONSE TRAINING

OPITO EMERGENCY COORDINATOR FOR RENEWABLE ENERGY

Duration	Cost per Delegate	Venue
2 Days	Please contact us for details.	Altens Training Centre

Availability Visit our website for the latest available dates. To enquire about additional dates or to set up a course specifically for your company, please contact the [ASET Customer Service Team](#).

About this Course

Target Audience Personnel who have been deemed ready by their employer to be formally assessed in the role of an Emergency Coordinator during an emergency situation. They must have completed all relevant company specific training and should be employed within the renewables industry.

Prerequisites A Duty Holder declaration and supporting evidence from employer confirming the learner has achieved the performance criteria in Outcome 1 and asset information is to be provided 7 days prior to course commencement as per the OPITO standard.

Delegates will be required to supply a Government issued photographic ID on the day of the course.

Practical Content 60% **Theoretical Content** 40%

Key Learning Outcomes Assessment of competence in the role of an Emergency Coordinator during various emergency situations in a simulated environment.

Course Content

- Maintain a state of readiness
- Assess situation and take effective action
- Maintain communications and coordinate the response to emergencies
- Manage self and team performance
- Relevant information to ensure appropriate actions and communications in the event of an emergency situation

Assessment Delegates will be formally assessed in the role of an Emergency Coordinator during an emergency situation to OPITO Standards.

Certification



OPITO Certificate, valid for 3-years.

PPE Requirements PPE not required.

Further Information Delegates should be aware that there are elements within the course which could prove to be stressful in nature. It is the responsibility of both the sponsoring company and the delegate to highlight any concerns regarding delegate fitness to participate on this course. Delegates will be required to fill in a self-assessment medical form on arrival.

EMERGENCY RESPONSE TRAINING

RULES AND REGULATIONS FOR OFFSHORE INSTALLATION MANAGER

Duration	Cost per Delegate	Venue
3 Days	£1,035+VAT	Altens Training Centre

Availability Visit our website for the latest available dates. To enquire about additional dates or to set up a course specifically for your company, please contact the [ASET Customer Service Team](#).

About this Course

Target Audience Offshore Installation Managers (OIMs), deputy OIMs, emergency deputy OIMs and supervisors.

Prerequisites There are no prerequisites for this course.

Practical Content 40% **Theoretical Content** 60%

Key Learning Outcomes

- Understand and explain the legislation applicable to an Offshore Installation Manager.
- Understand the purpose and use of applicable management systems.
- Identify the information contained within The Offshore Installations (Offshore Safety Directive)(Safety Case etc) Regulations 2015.
- Be able to interpret the management and administration regulations.
- Understand the Offshore Installation Manager's responsibilities under the Offshore Installations and Pipeline Works (Management and Administration) Regulations 1995.
- Understand the requirement of the Offshore Installations (Prevention of Fire and Explosion, and Emergency Response) Regulations 1995.
- Knowledge of how to report an offshore installation incident.

Course Content

- Health & Safety law (duties and responsibilities)
- Offshore and onshore law
- Regulations applicable to installations
- Permit systems and safety
- Emergency response
- Accident prevention
- Corporate manslaughter/homicide

Assessment Delegates will undertake a multiple-choice examination paper to demonstrate they have achieved the key learning outcomes listed above.

Certification  ASET International Energy Training Academy Certificate.

PPE Requirements PPE not required.

HEALTH, SAFETY AND ENVIRONMENT TRAINING

CUSTOMER FEEDBACK

"Great course very informative!"

Logan Cameron, Safety Training (York)
ECITB CCNSG Safety Passport
April 2024

"Enjoyed course, instructor managed to keep good engagement"

James Pierce, Vestas Offshore Wind UK
IOSH Managing Safely
July 2023

"Thorough course suitable for both beginners and those with Health and Safety experience"

Graeme Murray, Kepak Group
IOSH Working Safely
December 2023

"Alan our instructor was very informative on our course. He helped us as a group and as individuals, I was initially worried about attending the course but Alan quickly put me at ease."

Alistair McIntyre, Mitie Group
NEBOSH General Certificate in Occupational Health and Safety
December 2023

"Ed was an excellent instructor. Kept the class interesting and let us break at a good time to ensure we did not burnout. Enjoyed the course and appreciated Ed's depth of knowledge."

Shane Smith, Maersk Training UK
NEBOSH HSE Certificate in Process Safety Management
June 2023

"I feel like I understand everything about risk assessments a lot better and can bring a lot of information back to the company!"

Jacqui Adams, Alba Power
Risk Assessment
December 2023

"Very knowledgeable instructor, very well presented"

Richard Wrightson, Private Delegate
Working at Heights Awareness
June 2023

CONTROL OF SUBSTANCES HAZARDOUS TO HEALTH (COSHH)

Duration	Cost per Delegate	Venue
1 Day	£286+VAT	Altens Training Centre

Availability Visit our website for the latest available dates. To enquire about additional dates or to set up a course specifically for your company, please contact the [ASET Customer Service Team](#).

About this Course

Target Audience Employees required to carry out COSHH assessments.

Prerequisites There are no prerequisites for this course.

Practical Content 20% **Theoretical Content** 80%

Key Learning Outcomes

- Gain an understanding of the control of health & safety risks when using hazardous substances.
- Have the knowledge to identify the different types of hazard symbols.
- Gain a comprehensive understanding of the different types of hazardous substances and their effects.

Course Content

- Properties of hazardous substances
- Effects of hazardous substances on the human body, and routes of entry
- Monitoring techniques
- Protective equipment
- Risk control measures

Assessment Delegates will undertake a multiple-choice examination paper to demonstrate they have achieved the key learning outcomes detailed above.

Certification  ASET International Energy Training Academy Certificate.

PPE Requirements PPE not required.

HEALTH, SAFETY AND ENVIRONMENT TRAINING

ECITB CCNSG SAFETY PASSPORT

Duration	Cost per Delegate	Venue
2 Days	£148+VAT	Altens Training Centre

Availability Visit our website for the latest available dates. To enquire about additional dates or to set up a course specifically for your company, please contact the [ASET Customer Service Team](#).

About this Course

Target Audience Personnel entering required to enter engineering and construction sites.

Prerequisites There are no prerequisites for this course.

Practical Content 0% **Theoretical Content** 100%

Key Learning Outcomes

- Gain an understanding of health and safety law and permits to work.
- Understand safe working practices relating to construction and engineering sites including scaffolding.
- Understand all emergency procedures including those pertaining to fire and the precaution thereof.
- Develop an understanding of Control of Substances Hazardous to Health (COSHH), manual handling and their application in the workplace.

Course Content

- Safe behaviours at work, including consequences of good and bad safety practices and the Health and Safety at Work etc Act 1974
- Risk assessments, including fire safety, hazardous substances and asbestos.
- Hierarchy of control
- Manual handling
- Provision and use of work equipment regulations
- Hand Arm Vibration Syndrome
- Working in confined spaces and working at height
- Lifting Operations and Lifting Equipment Regulations
- Site transport
- Signage
- Excavations
- Electric/Isolation
- Environment, including noise
- Reporting of Injuries, Diseases and Dangerous Occurrences

Assessment Delegates will be required to complete a multiple choice test on each module covered during the training, with a pass rate of 80% or more on each test.

Certification



CCNSG (Client Contractor National Safety Group) Safety Passport (valid for 3-years).

PPE Requirements PPE not required.

ECITB CCNSG SAFETY PASSPORT (REFRESHER)

Duration	Cost per Delegate	Venue
1 Day	£122+VAT	Altens Training Centre

Availability Visit our website for the latest available dates. To enquire about additional dates or to set up a course specifically for your company, please contact the [ASET Customer Service Team](#).

About this Course

Target Audience Personnel with an existing CCNSG Safety Passport cards holders who need to renew their card.

Prerequisites Delegates must already hold a valid CCNSG Safety Passport Card and must renew within the safety passport expiry date or retake to two-day CCNSG Safety Passport course.


Practical Content 0% **Theoretical Content** 100%

Key Learning Outcomes The ECITB CCNSG Safety Passport Refresher provides a refresher in all aspects of site safety and personal awareness.

- Course Content**
- Accidents and injuries
 - Causes of accidents
 - Behaviour
 - Consequences for a company
 - HSE role and inspectors
 - Safe systems at work
 - Confined space
 - Permit to Work
 - Work at height
 - Hazards, fire, noise and chemicals

Assessment Delegates will be required to complete a multiple choice test on each module covered during the training, with a pass rate of 80% or more on each test.

Certification



CCNSG (Client Contractor National Safety Group) Safety Passport (valid for 3-years).

PPE Requirements PPE not required.

HEALTH, SAFETY AND ENVIRONMENT TRAINING

IOSH SAFETY, HEALTH AND ENVIRONMENT FOR CONSTRUCTION SITE WORKERS

Duration	Cost per Delegate	Venue
1 Day	£209+VAT	Altens Training Centre

Availability Visit our website for the latest available dates. To enquire about additional dates or to set up a course specifically for your company, please contact the [ASET Customer Service Team](#).

About this Course

Target Audience Personnel who works on or who have cause to be on construction sites and wish to attain an understanding of safety, health and environment relating to the construction industry.

Prerequisites There are no prerequisites for this course.

Practical Content 0% **Theoretical Content** 100%

Key Learning Outcomes

- Gain an understanding of the importance of site safety, recognizing managing health risks and high risk activities, dealing with incidents and the wider environment.
- Learn how to spot common hazards and improve safety performance across the site.

Course Content

- Health and safety issues to be managed in the construction industry to protect employees, contractors, neighbours and others.
- The basics of local law.
- The importance of risk assessments and method statements and the development process.
- Site requirements for the welfare of construction workers on site.
- Hazards and controls associated with construction sites and activities including working at height and confined spaces.
- Site environmental management including management of waste and ecology.

Assessment Delegates will undertake a multiple-choice examination paper and a hazard spotting exercise to demonstrate they have achieved the key learning outcomes detailed above.

Certification



IOSH Certificate.

PPE Requirements PPE not required.

HEALTH, SAFETY AND ENVIRONMENT TRAINING

IOSH SAFETY, HEALTH AND ENVIRONMENT FOR CONSTRUCTION SITE MANAGERS

Duration	Cost per Delegate	Venue
5 Days	£638+VAT	Altens Training Centre

Availability Visit our website for the latest available dates. To enquire about additional dates or to set up a course specifically for your company, please contact the [ASET Customer Service Team](#).

About this Course

Target Audience Construction site managers who wish to attain a comprehensive understanding of safety, health and environment relating to the construction industry.

Prerequisites There are no prerequisites for this course.

Practical Content 0% **Theoretical Content** 100%

Key Learning Outcomes Gain an understanding and develop the skills to manage risks within a construction environment.

Course Content

- Local law and enforcement
- Preparing for work
- General management of the site, workers and contractors including for example:
 - *The importance of method statements
 - *The use of permits to work
- The importance of managing environmental aspects and impacts related to construction projects
- Principles underpinning effective construction design and management
- The key issues and control of working at height including for example:
 - *Plans and risk assessments
 - *Roofs and fragile surfaces
 - *Working platforms and ladders
 - *Management, use and stability of scaffolds
 - *Fall arrest and suspension equipment
- Site requirements for the welfare of construction workers on site

Assessment Delegates will undertake a multiple-choice examination paper and a hazard spotting exercise to demonstrate they have achieved the key learning outcomes detailed above.

Certification



IOSH Certificate.

PPE Requirements PPE not required.

HEALTH, SAFETY AND ENVIRONMENT TRAINING

IOSH MANAGING SAFELY

Duration	Cost per Delegate	Venue
3 Days	£459+VAT	Altens Training Centre

Availability Visit our website for the latest available dates. To enquire about additional dates or to set up a course specifically for your company, please contact the [ASET Customer Service Team](#).

About this Course

Target Audience This course is suitable for managers and supervisors wishing to gain a broad understanding of occupational Health & Safety.

Prerequisites There are no prerequisites for this course.

Practical Content 25% **Theoretical Content** 75%

Key Learning Outcomes

- Gain an understanding of everyone's safety and health responsibilities in the workplace
- To recognize how managers and supervisors can influence, control and monitor risk to improve safety and health in the workplace.

Course Content

- Introducing managing safely
- Assessing risks
- Controlling risks
- Understanding responsibilities
- Understanding hazards
- Investigating incidents
- Measuring performance

Assessment Delegates will undertake a multiple-choice examination paper and hazard spotting exercise to demonstrate they have achieved the key learning outcomes detailed above.

Certification



PPE Requirements PPE not required.

HEALTH, SAFETY AND ENVIRONMENT TRAINING

IOSH WORKING SAFELY

Duration	Cost per Delegate	Venue
1 Day	£153+VAT	Altens Training Centre

Availability Visit our website for the latest available dates. To enquire about additional dates or to set up a course specifically for your company, please contact the [ASET Customer Service Team](#).

About this Course

Target Audience Personnel at any level in any sector who require an understanding in the essentials of safety and health.

Prerequisites There are no prerequisites for this course.

Practical Content 20% **Theoretical Content** 80%

Key Learning Outcomes Gain an understanding of why safety and health is important and how individuals can make a difference to the wellbeing of themselves and others through challenging their behavior.

Course Content

- Introducing working safely
- Defining hazard and risk
- Identifying common hazards
- Improving safety performance

Assessment Delegates will undertake a multiple-choice examination paper and hazard spotting exercise to demonstrate they have achieved the key learning outcomes detailed above.

Certification



PPE Requirements PPE not required.

HEALTH, SAFETY AND ENVIRONMENT TRAINING

MANUAL HANDLING AWARENESS

Duration	Cost per Delegate	Venue
1 Day	£286+VAT	Altens Training Centre

Availability Visit our website for the latest available dates. To enquire about additional dates or to set up a course specifically for your company, please contact the [ASET Customer Service Team](#).

About this Course

Target Audience Personnel required to carry out manual handling techniques.

Prerequisites There are no prerequisites for this course.

Practical Content 20% **Theoretical Content** 80%

Key Learning Outcomes

- Understand the legislation behind manual handling.
- Gain an understanding on how to lift and carry safely.

Course Content

- An overview of relevant legislation
- Consideration of the implications of injuries associated with manual handling incidents
- Correct manual handling techniques
- The construction of the human frame and the health issues that can arise out of poor manual handling technique
- Risk assessment techniques as they relate to manual handling
- Practical instruction and delegate participation on:
 - *Lifting and handling techniques
 - *The use of mechanical lifting aids provided by the client

Assessment Delegates will undertake a multiple-choice examination paper to demonstrate they have achieved the key learning outcomes detailed above.

Certification  ASET International Energy Training Academy Certificate.

PPE Requirements PPE not required.

NEBOSH HSE CERTIFICATE IN MANUAL HANDLING RISK ASSESSMENT

Duration	Cost per Delegate	Venue
1 Day	£300+VAT	Altens Training Centre

Availability Visit our website for the latest available dates. To enquire about additional dates or to set up a course specifically for your company, please contact the [ASET Customer Service Team](#).

About this Course

Target Audience The NEBOSH HSE Certificate in Manual Handling Risk Assessment is for anyone who gets involved with assessing and addressing manual handling risks, such as: Health and Safety Professionals, Workplace champions, Employee representatives and Occupational Health Practitioners.

Prerequisites There are no prerequisites for this course.

Practical Content 0% **Theoretical Content** 100%

Key Learning Outcomes The NEBOSH HSE Certificate in Manual Handling Risk Assessment is a one-day qualification, based on HSE's best practice guidance and tools. The content will help you to identify and assess manual handling risk, and more importantly, prioritise controls to protect workers.

Course Content The qualification will help you to:

- Explain the importance of reducing risks associated with manual handling activities
- Understand responsibilities in relation to manual handling
- Explain what manual handling risks are and how they may result in injury
- Demonstrate and practice appropriate manual handling risk assessment technique
- Apply wider elements of risk management for manual handling.
- Using this qualification to build in-house expertise will help organisations:
- Protect team members from one of the main causes of musculoskeletal disorders
- Have confidence that the approach adopted to manual handling risk assessment reflects best practice and utilises HSE manual handling tools and templates.

Assessment A practical assessment is completed at the end of the course. After watching a video of a manual handling activity in a workplace, you will be asked to assess it using HSE tools and templates.

Certification



NEBOSH HSE Certificate in Manual Handling Risk Assessment

PPE Requirements PPE not required.

HEALTH, SAFETY AND ENVIRONMENT TRAINING

NEBOSH AWARD IN ENVIRONMENTAL AWARENESS AT WORK

Duration	Cost per Delegate	Venue
1 Day	£301+VAT	Altens Training Centre

Availability Visit our website for the latest available dates. To enquire about additional dates or to set up a course specifically for your company, please contact the [ASET Customer Service Team](#).

About this Course

Target Audience

This qualification is for anyone who needs to gain a basic understanding of environmental impacts and risk control. It provides an introduction to implementing ISO 14001. It is an environmental qualification for learners with no prior knowledge of the subject required. The qualification has global relevance and covers the principles of environmental management, not UK specific law. It may be particularly relevant for:

- Team leaders and supervisors
- Facilities managers
- Anyone wishing to ensure they work positively with regard to the environment.

Prerequisites

There are no prerequisites for this course.

Practical Content

20%

Theoretical Content 80%

Key Learning Outcomes

- Introduction to environmental issues at work
- Awareness of the role workers can play in improving environmental performance
- Gain an understanding of environmental impacts and risk control

Course Content

- The meanings of basic environmental terms.
- Importance and benefits of sustainable development.
- The individual's role in a certified Environmental Management System (EMS).
- Air, water and land pollution.
- Dealing with emergencies.

Assessment

Delegates will undertake a multiple-choice examination paper and practical exercises to demonstrate they have achieved the key learning outcomes detailed above.

Certification



NEBOSH Award in Environmental Awareness at Work.

PPE Requirements

PPE not required.

HEALTH, SAFETY AND ENVIRONMENT TRAINING

NEBOSH HSE CERTIFICATE IN PROCESS SAFETY MANAGEMENT

Duration	Cost per Delegate	Venue
5 Days	£959+VAT	Altens Training Centre

Availability Visit our website for the latest available dates. To enquire about additional dates or to set up a course specifically for your company, please contact the [ASET Customer Service Team](#).

About this Course

Target Audience Personnel who work in process industries such as oil and gas, chemicals, plastics and pharmaceuticals. Ideal for managers, safety representatives and health and safety advisors working within the process industries, both inside and outside the UK.

It is not designed for chemical and process safety engineers experienced in the specification, design and maintenance of process plant.

Prerequisites There are no entry requirements for this qualification, but it is recommended that learners should already have an underpinning knowledge of health and safety issues, and many will have gained another NEBOSH qualification.

Practical Content 20% **Theoretical Content** 80%

Key Learning Outcomes

- Understand the requirements of process safety leadership.
- Gain the skills to ensure proper management of process risk.
- Develop the knowledge to identify and deal with process safety hazard control.
- Understand fire and explosion protection.

Course Content

- Establishment of process management systems
- Asset management and maintenance strategies
- Safe start-up and shutdown of process plant
- Performance standards for safety critical systems and equipment
- Hazards and controls for:
 - *Chemical reactions
 - *Bulk storage of dangerous substances
 - *Fire and explosion
- Purpose and features of emergency plans

Assessment Delegates will undertake a multiple-choice examination paper to demonstrate they have achieved the key learning outcomes detailed above.

Certification



NEBOSH HSE Certificate in Process Safety Management.

PPE Requirements PPE not required.

NEBOSH NATIONAL GENERAL CERTIFICATE IN OCCUPATIONAL HEALTH AND SAFETY

Duration	Cost per Delegate	Venue
10 Days + 1 Day exam	£1,530+VAT	Altens Training Centre

Availability Visit our website for the latest available dates. To enquire about additional dates or to set up a course specifically for your company, please contact the [ASET Customer Service Team](#).

About this Course

Target Audience Managers, supervisors, employee representatives and other non- specialists with health and safety responsibilities wishing to gain underpinning knowledge to help them discharge their organisational duties and functions more effectively.

Prerequisites There are no prerequisites for this course.

Practical Content 25% **Theoretical Content** 75%

Key Learning Outcomes

- Gain the knowledge and skills to effectively manage health and safety.
- Ability to identify and control common workplace hazards.
- Understanding of the legal requirements.

Course Content

- Why we should manage workplace health and safety
- How health and safety management systems work and what they look like
- Managing risk – understanding people and processes
- Health and safety monitoring and measuring
- Physical and psychological health
- Musculoskeletal health
- Chemical and biological agents
- General workplace issues
- Work equipment
- Fire
- Electricity

Assessment Delegates will undertake an open book online NEBOSH exam and submit a Risk Profile and Risk Assessment in order to demonstrate they have achieved the key learning outcomes detailed above.

Certification



NEBOSH National General Certificate.
NEBOSH will issue the candidate with their certificate on successful completion of the external examinations.

PPE Requirements PPE not required.

Further Information

- ASET's NEBOSH National General Certificate in Occupational Health & Safety course has NO HIDDEN COSTS. All expenses relating to the course, such as exam fees and course materials, are included within the cost of each course and all assessments are conducted from the same site meaning a simple and hassle-free course for delegates. Please bear this in mind when making price comparisons with other training providers.
- Course dates are scheduled to coincide with NEBOSH examination dates.

RISK ASSESSMENT

Duration	Cost per Delegate	Venue
1 Day	£286+VAT	Altens Training Centre

Availability Visit our website for the latest available dates. To enquire about additional dates or to set up a course specifically for your company, please contact the [ASET Customer Service Team](#).

About this Course

Target Audience Personnel required to carry out risk assessments.

Prerequisites There are no prerequisites for this course.

Practical Content 20% **Theoretical Content** 80%

Key Learning Outcomes

- Gain an awareness of the purpose of a risk assessment.
- Know the definitions of hazard, risk and control measures.
- Understand how to use a basic risk matrix.
- Know the difference between task and dynamic risk assessments.

Course Content

- Legislative requirements
- Main reasons for assessing risks
- Estimating risks
- Applying a control measure hierarchy to control risks
- Safe Working Procedures
- Conduct assessment and produce a Safe Working Procedure

Assessment Delegates will undertake a multiple-choice examination paper to demonstrate they have achieved the key learning outcomes detailed above.

Certification  ASET International Energy Training Academy Certificate.

PPE Requirements PPE not required.

HEALTH, SAFETY AND ENVIRONMENT TRAINING

WORKING AT HEIGHTS AWARENESS

Duration	Cost per Delegate	Venue
1 Day	£296+VAT	Clinterty Training Centre

Availability Visit our website for the latest available dates. To enquire about additional dates or to set up a course specifically for your company, please contact the [ASET Customer Service Team](#).

About this Course

Target Audience Personnel who are required to carry out work at height in the workplace.

Prerequisites There are no prerequisites for this course.

Practical Content 50% **Theoretical Content** 50%

Key Learning Outcomes

- Gain knowledge of the correct procedures when working at heights.
- Understand the relevant statutory requirements and hazards when working at heights.

Course Content

- Awareness of the Work at Height Regulations 2005 and other relevant legislation
- Familiarisation with the requirements of the regulations and how they affect them and their organisation
- Awareness of different types of work carried out at height and the possible hazards and risks involved
- Awareness of the importance of organising and planning prior to starting work at height
- Awareness of the safe systems of work procedures required to carry out work at height
- Familiarisation with the correct types of PPE and equipment used when working at height and how to inspect them
- Familiarisation with control procedures to reduce the hazards of working at height, including different types of fall protection systems
- Awareness of the different types of working platforms that can be used for work at height including MEWP's and scaffold towers
- Awareness of different types of ladders and their safe use for work at height
- Proficiency in the use of various work at height equipment including harnesses, fall arrest and lanyards
- Proficiency to ascend and descend ladders safely using relevant equipment
- Awareness of suspension syncope, how to avoid it and how to deal with a person suffering from the effects.

Assessment Delegates will undertake a multiple-choice examination paper to demonstrate they have achieved the key learning outcomes detailed above.

Certification



City & Guilds 9841 Certificate.

PPE Requirements Safety footwear, hard hat and safety gloves.

Further Information This is a classroom based course with practical working at heights tasks carried out in the ASET Scaffolding Training Centre which is 10m in height.

The course involves climbing ladders and using working at height equipment, therefore delegates should be physically fit to carry out these tasks.

INSTRUMENTATION & CONTROL TRAINING

CUSTOMER FEEDBACK

"Great course, great and knowledgeable instructor, can't praise him enough. Thank you."

Alex Martin, PD&MS Group
Fire & Gas System Maintenance
October 2024

"Brilliant course, Ed is very knowledgeable and went above to help out"

Harry Walsh, PD&MS Group
Fire & Gas System Maintenance
October 2024

"Happy with the theory and practical side. Course really helped with knowledge. learnt a lot from Ed. Hoping to get a few more courses booked."

Lyndsay Dunbar, MW Environment Balmedie
Process Instrumentation Module 1
September 2024

FIRE AND GAS SYSTEM MAINTENANCE

Duration	Cost per Delegate	Venue
3 Days	£893+VAT	Altens Training Centre

Availability Visit our website for the latest available dates. To enquire about additional dates or to set up a course specifically for your company, please contact the [ASET Customer Service Team](#).

About this Course

Target Audience Maintenance technicians who are new to Fire and Gas Systems, engineers requiring a full appreciation of system maintenance requirements or experienced personnel who require a refresher course.

Prerequisites There are no prerequisites for this course.

Practical Content 40% **Theoretical Content** 60%

Key Learning Outcomes

- Demonstrate the ability to safely work on a fire and gas system.
- Demonstrate how to calibrate, inhibit, maintain and test gas detectors and associated components.
- Understand the basic principles of fire and gas system maintenance.

Course Content

- Fully functional Fire and Gas System
- Live plant calibration function check procedures on the following equipment:
 - *Smoke detectors, heat detectors, Infrared (IR) and Video Flame Detectors, IR Gas Detectors, toxic gas detectors
 - *Deluge and sprinkler systems activated by PolyFlow tubing
 - *Fusible plug, frangible bulbs, Invensys Trident plc

Assessment Delegates will undertake a multiple-choice examination paper to demonstrate they have achieved the key learning outcomes detailed above.

Certification  ASET International Energy Training Academy Certificate.

PPE Requirements Safety footwear, coveralls, safety glasses and hardhat.

Further Information This course exclusively uses ASET's market leading live and fully integrated ABCOL Oil & Gas Production Training Platform, allowing the delegates a hands on experience on a live replicated offshore process plant.

FLOW MEASUREMENT

Duration	Cost per Delegate	Venue
3 Days	£836+VAT	Altens Training Centre

Availability Visit our website for the latest available dates. To enquire about additional dates or to set up a course specifically for your company, please contact the [ASET Customer Service Team](#).

About this Course

Target Audience Instrument/electrical technicians and engineers who require a basic understanding of flow measurement.

Prerequisites There are no prerequisites for this course.

Practical Content 40% **Theoretical Content** 60%

Key Learning Outcomes

- Understand the basic principles of flow measurement.
- Gain the knowledge required to function check and calibrate flow transmitters.
- Develop the skills to prepare an AC4 plant area for the installation of an ultra-sonic clamp.
- Understand the processes involved with the configuration of a flow meter using PT787 software.

Course Content

- Operation, Maintenance of coriolis
- Differential pressure and ortex meters
- Introduction to meter verification methods
- AMS and hart communication
- Pro Plus 2 metering software

Assessment Delegates will undertake a multiple-choice examination paper to demonstrate they have achieved the key learning outcomes detailed above.

Certification  ASET International Energy Training Academy Certificate.

PPE Requirements Safety footwear, coveralls, safety glasses and hardhat.

Further Information This course exclusively uses ASET's market leading live and fully integrated ABCOL Oil & Gas Production Training Platform, allowing the delegates a hands on experience on a live replicated offshore process plant.

INTRODUCTION TO PROCESS INSTRUMENTATION (MODULE 1 MEASURING SYSTEMS)

Duration	Cost per Delegate	Venue
5 Days	£1,005+VAT	Altens Training Centre

Availability Visit our website for the latest available dates. To enquire about additional dates or to set up a course specifically for your company, please contact the [ASET Customer Service Team](#).

About this Course

Target Audience Technicians and engineers not of an instrumentation discipline who require a comprehensive practical overview of the instrumentation used currently in the process industry.

Prerequisites There are no prerequisites for this course.

Practical Content 60% **Theoretical Content** 40%

Key Learning Outcomes

- Demonstrate the ability to safely work in a process instrumentation environment.
- Demonstrate how to remove, replace and test instrumentation components.
- Understand the basic principles of Instrumentation measuring systems.

Course Content

- Pressure measurement instruments
- Temperature measurement instruments
- Level measurement instruments
- Flow measurement instruments
- Use of instrument diagrams and documentation
- Introduction to Asset Management Suite (A.M.S.)
- Emerson Trex and 475 Field Communicators and standard calibration equipment
- Introduction to modern DCS and ESD systems
- Practical demonstration and candidate practical calibration/function checks

Assessment Delegates will undertake a multiple-choice examination paper to demonstrate they have achieved the key learning outcomes detailed above.

Certification  ASET International Energy Training Academy Certificate.

PPE Requirements Safety footwear, coveralls, safety glasses and hardhat.

Further Information This course exclusively uses ASET's market leading live and fully integrated ABCOL Oil & Gas Production Training Platform, allowing the delegates a hands on experience on a live replicated offshore process plant.

INTRODUCTION TO PROCESS INSTRUMENTATION (MODULE 2 CONTROL SYSTEMS)

Duration	Cost per Delegate	Venue
4 Days	£1,005+VAT	Altens Training Centre

Availability Visit our website for the latest available dates. To enquire about additional dates or to set up a course specifically for your company, please contact the [ASET Customer Service Team](#).

About this Course

Target Audience Technicians and engineers not of an instrumentation discipline who require a comprehensive practical overview of the instrumentation used currently in the process industry.

Prerequisites There are no prerequisites for this course.

Practical Content 60% **Theoretical Content** 40%

Key Learning Outcomes

- Demonstrate the ability to safely work in a process instrumentation environment.
- Demonstrate how to remove, replace and test instrumentation components and control valves.
- Understand the basic principles of Instrumentation control systems.

Course Content

- Loop turning on a live plant: pressure/flow/level
- Instrument loops and drawings
- Control valves and actuators
- Controllers and control theory
- Common control loops
- Multiple control loops
- Associated practical work (control-valve inspection, controller operation, control familiarisation exercises)
- DCS & ESD Configuration

Assessment Delegates will undertake a multiple-choice examination paper to demonstrate they have achieved the key learning outcomes detailed above.

Certification  ASET International Energy Training Academy Certificate.

PPE Requirements Safety footwear, coveralls, safety glasses and hardhat.

Further Information This course exclusively uses ASET's market leading live and fully integrated ABCOL Oil & Gas Production Training Platform, allowing the delegates a hands on experience on a live replicated offshore process plant.

INTRODUCTION TO WIRELESS INSTRUMENTATION

Duration	Cost per Delegate	Venue
3 Days	£893+VAT	Altens Training Centre

Availability Visit our website for the latest available dates. To enquire about additional dates or to set up a course specifically for your company, please contact the [ASET Customer Service Team](#).

About this Course

Target Audience Technicians and engineers with some instrument/electrical experience who require a comprehensive practical overview of Wireless Instrumentation used currently in the process industry.

Prerequisites There are no prerequisites for this course.

Practical Content 80% **Theoretical Content** 20%

Key Learning Outcomes

- Demonstrate how to work safely when dealing with wireless instrumentation components.
- Demonstrate how to programme, install and configure wireless instrumentation.
- Understand the basic principles of wireless networking and process instrumentation.

Course Content

- Configuration of Wireless Gateways (Rosemount 1420)
- Configuration of Smart Wireless 'Thums'
- Introduction to and configuration of Smart WIOC S Series I/O Cards for Delta V.
- Introduction to electronic marshalling with 'Charms' I/O's
- Configuration and maintenance of Smart Wireless Transmitters including Differential and Gauge Pressure Transmitters, Temperature Transmitters, Digital Input Transmitters
- Introduction to AMS, Asset Management Suite
- Vibration monitoring

Assessment Delegates will undertake a multiple-choice examination paper to demonstrate they have achieved the key learning outcomes detailed above.

Certification  ASET International Energy Training Academy certificate.

PPE Requirements Safety footwear, coveralls, safety glasses and hardhat.

Further Information This course exclusively uses ASET's market leading live and fully integrated ABCOL Oil & Gas Production Training Platform, allowing the delegates a hands on experience on a live replicated offshore process plant.

INTRODUCTION TO PLC'S IN PROGRAMMING

Duration	Cost per Delegate	Venue
3 Days	£893 +VAT	Altens Training Centre

Availability Visit our website for the latest available dates. To enquire about additional dates or to set up a course specifically for your company, please contact the [ASET Customer Service Team](#).

About this Course

Target Audience Maintenance and operations technician/engineers who are new to Programmable Logic Controllers utilized in ESD systems, Fire and Gas Systems and Process Control Systems.

Prerequisites There are no prerequisites for this course.

Practical Content 80% **Theoretical Content** 20%

Key Learning Outcomes

- Demonstrate the ability to safely work with programmable logic controllers.
- Understand the use of emergency shutdown and analogue values using a programming software system.
- Understand the operation, programming and commissioning of a PLC System.

Course Content

- Converting schematic diagrams into ladder logic to enable effective programming
- Designing simple ladder logic diagrams for ESD and Process Control Functions, incorporating relays/coils, timers, counters, internal contacts, inputs and outputs. Digital inputs and outputs, Analogue Inputs and Outputs
- Programming a PLC using a laptop/Notebook
- Designing programmes to operate ESD test rig for typical Oil/Gas Separator
- Level Control of a typical Knockout Drum
- Troubleshooting online with working PLC
- Using and programming HMI Display Graphics.

Assessment Delegates will undertake a multiple-choice examination paper to demonstrate they have achieved the key learning outcomes detailed above.

Certification  ASET International Energy Training Academy certificate.

PPE Requirements PPE not required.

INSTRUMENTATION & CONTROL TRAINING

PROCESS CONTROL VALVES – OPERATION, MAINTENANCE AND INSPECTION

Duration	Cost per Delegate	Venue
3 Days	£893 +VAT	Altens Training Centre

Availability Visit our website for the latest available dates. To enquire about additional dates or to set up a course specifically for your company, please contact the [ASET Customer Service Team](#).

About this Course

Target Audience Technicians and engineers, not necessarily with an instrument background, who require an overview of process control valve operation, maintenance and inspection.

Prerequisites There are no prerequisites for this course.

Practical Content 70% **Theoretical Content** 30%

Key Learning Outcomes

- Demonstrate the ability to safely work on process control valves.
- Demonstrate how to maintain, inspect, replace and test control valves and associated components.
- Understand the basic principles of process control valves.

Course Content

- Design, construction and operating principles of typical process control valves
- Pneumatic actuator function and design (sliding stem and rotary)
- Valve positioner theory and operation (includes calibration checks, split-range operation)
- Control valve selection and basic sizing principles for valves and actuators
- Strip-down, inspection and reassembly of sliding-stem, pneumatic, process control valves
- Includes safety requirements, bench-setting and valve positioner alignment/calibration including set up for split-range operation
- Further field-checking of electro-pneumatic positioners and checks using Hart communicator
- Familiarisation of control valve installation details on operational plant

Assessment Delegates will undertake a multiple-choice examination paper to demonstrate they have achieved the key learning outcomes detailed above.

Certification  ASET International Energy Training Academy Certificate.

PPE Requirements Safety footwear, coveralls, safety glasses and hardhat.

Further Information This course exclusively uses ASET's market leading live and fully integrated ABCOL Oil & Gas Production Training Platform, allowing the delegates a hands on experience on a live replicated offshore process plant.

SAFETY INSTRUMENT SYSTEMS (SIS) AND THEIR USE IN FUNCTIONAL SAFETY

Duration	Cost per Delegate	Venue
2 Days	£729+VAT	Altens Training Centre

Availability Visit our website for the latest available dates. To enquire about additional dates or to set up a course specifically for your company, please contact the [ASET Customer Service Team](#).

About this Course

Target Audience Instrument/electrical/process technicians and engineers who require a basic understanding of functional safety covered by IEC61508 and IEC61511, and the use of Safety Instrument Systems to achieve improved functional safety.

Prerequisites There are no prerequisites for this course.

Practical Content 50% **Theoretical Content** 50%

Key Learning Outcomes

- Gain an understanding of the basic concepts of functional safety standards and their implication in industry.
- Develop the skills and knowledge to prepare and carry out verification test and apply data retrieved where applicable.

Course Content

- Use of Process Hazard Analysis to reduce risk in Processing Hydrocarbons using ABCOL Plant V1400 Separator as a live exercise
- Conduct a Hazard & Operability Analysis (HAZOP) and a Layer of Protection Analysis (LOPA) to determine whether the SIS installed meets the standard required
- Investigate the risk reduction factor used on V1400 Separator on ABCOL Plant
- Carry out function and proof testing Safety Instrument Function (SIF) loops on a live Delta V SIS

Assessment Delegates will undertake a multiple-choice examination paper to demonstrate they have achieved the key learning outcomes detailed above.

Certification  ASET International Energy Training Academy Certificate.

PPE Requirements Safety footwear, coveralls, safety glasses and hardhat.

Further Information This course exclusively uses ASET's market leading live and fully integrated ABCOL Oil & Gas Production Training Platform, allowing the delegates a hands on experience on a live replicated offshore process plant.

MARINE OPERATIONS TRAINING

CUSTOMER FEEDBACK

"Extremely well delivered course, instructor was superb. Knowledge and willing to answer any and all questions leaving with a far greater understanding of our DP systems."

Dean Woods, Tidewater Marine UK
Dynamic Positioning Induction
February 2024

"Very well structured course, delivered in a very clear and understandable way. Instructor was very helpful and would recommend to anyone looking to start in DP"

Alfie Cooper, Seafast Maritime Ltd
Dynamic Positioning Advanced
February 2024

"I enjoyed attending the course and the instructor had great knowledge to help me learn a lot!"

Otilio Maciel, Crewing Services (Aberdeen) Ltd
Radiotelephony Restricted Operators Certificate (ROC) (GMDSS)
May 2024

"Course put across well, floor was always open to questions."

Mark King, Shell
FPSO Awareness
February 2024

"Professional instructor Ian, all questions were answered all the time, I was involved in the conversation and it makes sense to "absorb" the course material. 5/5 amazing simulator to improve jacking ops."

Edgar Ikacenko, Dredging International Nv
Marine Operations of Self-Elevating Platforms (Jack-up Rigs)
January 2024

"I found Toby to be a very helpful instructor, informative and his way of passing knowledge on is outstanding. I thoroughly enjoyed my time there and hopefully be back for more training soon!"

Paul Rogers, Crossway Eagle LLC
Stability 1 (Theory)
April 2024

ARE YOU A DP OPERATOR?

TIMELINE TO CHANGE

IF YOU HAVE 150 DAYS OF SEATIME OR EQUIVALENT AND ARE RENEWING YOUR LICENCE IN:

2024

YOU WILL NEED:

One year of an NI-approved CPD programme AND NI Revalidation online exam
OR
NI DP Refresher course (including the NI revalidation exam)

2025

YOU WILL NEED:

Two years of an NI-approved CPD programme AND NI Revalidation online exam
OR
NI DP Refresher course (including the NI revalidation exam)

2026

YOU WILL NEED:

Three years of an NI-approved CPD programme AND NI Revalidation online exam
OR
NI DP Refresher course (including the NI revalidation exam)

2027

YOU WILL NEED:

Four years of an NI-approved CPD programme AND NI Revalidation online exam
OR
NI DP Refresher course (including the NI revalidation exam)

2028

YOU WILL NEED:

Five years of an NI-approved CPD programme AND NI Revalidation online exam
OR
NI DP Refresher course (including the NI revalidation exam)

From the beginning of 2024, the requirements to renew your DPO Certificate are changing!

To make sure that DP operators keep pace with the developing standards in a fast changing industry, DPOs renewing their certificates will now be asked to demonstrate Continuing Professional Development (CPD) as well as experience. **Start your CPD in 2023.**

To revalidate your DPO Certificate, you will need to:

be enrolled in an NI-approved CPD programme and take the NI Revalidation online examination

OR

complete the NI DP Refresher Course, including the NI Revalidation online examination

To make sure all applicants have enough time to meet the requirements, we will be introducing the changes gradually over the next five years

Check below to see what you need to do!

IF YOU DO NOT HAVE ALL THE REQUIREMENTS IN PLACE TO RENEW IN TIME – DON'T WORRY!

You will be granted an automatic 12-month extension to your existing certificate to complete the CPD requirements.

IF YOU HAVE BETWEEN 30 - 150 DAYS SEATIME

You must complete the NI DP Refresher Course, including the NI Revalidation online examination

IF YOU HAVE LESS THAN 30 DAYS SEATIME

You must complete the NI DP Revalidation Course, including the NI Revalidation online examination

MARINE OPERATIONS TRAINING

DYNAMIC POSITIONING INTRODUCTION

Duration	Cost per Delegate	Venue
2 Days	£668+VAT	Marine Training Centre

Availability Visit our website for the latest available dates. To enquire about additional dates or to set up a course specifically for your company, please contact the [ASET Customer Service Team](#).

About this Course

Target Audience Personnel who require a general knowledge of dynamic positioning such as diving supervisors/ superintendents, shoreside management teams, client representatives etc.

Prerequisites There are no prerequisites for this course.

Practical Content 30% **Theoretical Content** 70%

Key Learning Outcomes Gain a basic knowledge of the principles of Dynamic Positioning (DP) and the advantages and limitations of DP vessels.

Course Content

- Definitions and principles of Dynamic Positioning
- Types and configuration of thruster units
- Position reference systems
- Computer operation
- Concept of redundancy
- Power management systems
- Simulated exercises
- Limitations of position reference systems
- DP case studies involving problems
- Universal Transverse Mercator (UTM) co-ordinates
- DP checklists
- Operational capability graphs
- Diving practices
- Problems associated with diving/DP operations
- Communications

Assessment Delegates will undertake exercises to demonstrate they have achieved the key learning outcomes listed above.

Certification  ASET International Energy Training Academy Certificate.

PPE Requirements PPE not required.

Further Information Course delegates will undertake realistic and live DP operational tasks in typical marine situations using the Kongsberg K-Sim DP NI Class B High Fidelity Simulator, which features 120 degree panoramic view and Class C desktop interactive simulation delivered to Nautical Institute standards.

MARINE OPERATIONS TRAINING

DYNAMIC POSITIONING AWARENESS

Duration	Cost per Delegate	Venue
4 Days	£1,438+VAT	Marine Training Centre

Availability Visit our website for the latest available dates. To enquire about additional dates or to set up a course specifically for your company, please contact the [ASET Customer Service Team](#).

About this Course

Target Audience Personnel who require a general knowledge of dynamic positioning such as diving supervisors/ superintendents, shoreside management teams, client representatives etc.

Prerequisites There are no prerequisites for this course.

Practical Content 30% **Theoretical Content** 70%

Key Learning Outcomes Gain a general knowledge of the principles of Dynamic Positioning (DP) and the advantages and limitations of DP vessels.

- Course Content**
- Definitions and principles of Dynamic Positioning
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Certification  ASET International Energy Training Academy Certificate.

PPE Requirements PPE not required.

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MARINE OPERATIONS TRAINING

DYNAMIC POSITIONING INDUCTION/BASIC

Duration	Cost per Delegate	Venue
4 Days	£1,438+VAT	Marine Training Centre

Availability Visit our website for the latest available dates. To enquire about additional dates or to set up a course specifically for your company, please contact the [ASET Customer Service Team](#).

About this Course

Target Audience Personnel intending to become Dynamic Positioning Operators (DPOs) and prospective DPOs who are in the process of training for an STCW certificate can undertake the DP scheme, but cannot apply for the DP certificate until they hold an appropriate STCW certificate.

This induction course is the first of two courses required under the Nautical Institute's Dynamic Positioning training scheme.

Prerequisites Delegates will be required to provide evidence in **one** of the following areas:

- Certification by STCW (Standards of Training Certification and Watchkeeping) in Deck, Engine and Electrical
- Recognised and equivalent marine vocational qualifications
- Officer trainees (cadets or ratings) on a defined training programme


Practical Content 40% **Theoretical Content** 60%

Key Learning Outcomes Gain a familiarity with dynamic positioning software and its application under differing operational and environmental constraints.

Course Content

- Definitions and principles of Dynamic Positioning
- Types and configuration of thruster units
- Position reference systems
- Computer operation
- Concept of redundancy
- Power management systems
- Simulated exercises
- Limitations of position reference systems
- DP case studies involving problems
- Universal Transverse Mercator (UTM) co-ordinates
- DP checklists
- Operational capability graphs
- Diving practices
- Problems associated with diving/ DP operations
- Communications

Assessment Delegates will undertake an online Nautical Institute multiple-choice examination to demonstrate they have achieved the key learning outcomes listed above.

Certification  ASET International Energy Training Academy Certificate (recognised and approved by the Nautical Institute).

PPE Requirements PPE not required.

Further Information Delegates will undertake realistic and live DP operational tasks in typical marine situations using the Kongsberg K-Sim DP NI Class B High Fidelity Simulator, which features 120 degree panoramic view and Class C desktop interactive simulation delivered to Nautical Institute standards.

On successful completion of this course delegates may then proceed to the next phase of the Nautical Institute's Dynamic Positioning training scheme.

MARINE OPERATIONS TRAINING

DYNAMIC POSITIONING SIMULATOR/ADVANCED

Duration	Cost per Delegate	Venue
4 Days	£1,505+VAT	Marine Training Centre

Availability Visit our website for the latest available dates. To enquire about additional dates or to set up a course specifically for your company, please contact the [ASET Customer Service Team](#).

About this Course

Target Audience Personnel intending to become Dynamic Positioning Operators (DPOs) and who have completed both the Dynamic Positioning Induction course and the Nautical Institute required watch keeping sea time.

This simulator course is the second of two courses required under the Nautical Institute's Dynamic Positioning training scheme.

Prerequisites Entry to this course as part of the Nautical Institute scheme requires delegates to have completed a minimum of 60 days documented sea service on a DP capable vessel and to have attended a recognised Dynamic Positioning Induction course.

Practical Content 70% **Theoretical Content** 30%

Key Learning Outcomes Delegates will develop the knowledge, understanding and skills required when dealing with common faults, errors and failures during Dynamic Positioning operations.

Course Content

- Study of DP incidents
- Construction and use of work site diagrams, charts and vessel templates for use in DP operations
- Preparation of plans for a projected DP operation, contingency plans for expected deviations and emergencies
- Participation in simulated situations in a variety of DP operations while handling routine and emergency situations
- Risk and safety analysis, and defining DP equipment classes
- The DP system's utilization of position measurements, and tests on position reference systems

Assessment Delegates will undertake an online Nautical Institute multiple-choice examination and a practical assessment to demonstrate they have achieved the key learning outcomes listed above.

Certification  ASET International Energy Training Academy Certificate (recognised and approved by the Nautical Institute).

PPE Requirements PPE not required.

Further Information Course delegates will undertake realistic and live DP operational tasks in typical marine situations using the Kongsberg K-Sim DP NI Class B High Fidelity Simulator, which features 120 degree panoramic view and Class C desktop interactive simulation delivered to Nautical Institute standards.

On successful completion of this course delegates may then proceed to the next phase of the Nautical Institute's Dynamic Positioning training scheme.

MARINE OPERATIONS TRAINING

DYNAMIC POSITIONING REVALIDATION/DYNAMIC POSITIONING REFRESHER AND COMPETENCY ASSESSMENT COURSES

Duration	Cost per Delegate	Venue
5 Days	£1,734 +VAT	Marine Training Centre

Availability Visit our website for the latest available dates. To enquire about additional dates or to set up a course specifically for your company, please contact the [ASET Customer Service Team](#).

About this Course

Target Audience Nautical Institute Dynamic Positioning Operators (DPOs) requiring renewal of certification.

Prerequisites Delegates must hold either:

- DPO certificate issued by the Nautical Institute and no DP sea time/less than 30 days (Revalidation Certificate).
- DPO certificate issued by the Nautical Institute and between 30 and 150 days DP sea time (Refresher and Competency Assessment Certificate).
- DPO certificate issued by the Nautical Institute and a minimum of 150 days DP sea time but has not engaged with a NI approved CPD programme (Refresher and Competency Assessment Certificate).

The original DPO certificate should be presented at the DP centre when attending the course.

Practical Content 50% **Theoretical Content** 50%


Key Learning Outcomes

- Have acquired knowledge of the latest rules and regulations.
- Have acquired knowledge of the latest developments within sensors and PRS.
- Have acquired knowledge of the latest relevant DP incidents and why they occurred.
- Be able to recognise the various alarm, warning and information messages .
- Carry out operational planning, risk assessment and hazard identification tasks.
- Set up the DP system for a particular task/operation.
- Decide on courses of action because of systems failure.

Course Content

- DP Rules and Regulations
- DP Sensors and PRS
- DP Set Up
- DP Bridge Watchkeeping
- Position Keeping
- Environmental Conditions
- Alarms and Indicators
- Change of DP Watch
- Normal Completion of a DP Operation
- Operating in Joystick Mode (DP Joystick)
- Emergency Situation
- Emergency Performance/Response to two elements

Assessment Delegates will undertake an online multiple-choice assessment and a practical assessment to demonstrate they have achieved the key learning outcomes listed above.

Certification  ASET International Energy Training Academy Certificate (recognised and approved by the Nautical Institute).

PPE Requirements PPE not required.

MARINE OPERATIONS TRAINING

DYNAMIC POSITIONING REVALIDATION COURSE ONLINE EXAM

Duration	Cost per Delegate	Venue
1/2 Day	£71+VAT	Marine Training Centre

About this Assessment This course is for Nautical Institute Dynamic Positioning Operators (DPOs) with current DPO certificates and 150 days or more of DP sea time who are looking to revalidate. Each delegate will undertake an online multiple choice assessment.

How to book this course To book this assessment you can email or call the **ASET Customer Service Team** on: Telephone: **+44 (0) 300 330 5559** Email: **asetbookings@aset.co.uk**

Revalidation Matrix

- 1 Jan 2025** A DPO/DPVM with 150 days DP sea time who is applying for revalidation will have to sit the NI Revalidation Course online exam and complete a minimum of two years of the NI-approved CPD programme or complete the NI DP Refresher Course. Those who do not meet all the new requirements will be given 12 months to do so, after which they can reapply for revalidation.
- 1 Jan 2026** A DPO/DPVM with 150 days DP sea time who is applying for revalidation will have to sit the NI Revalidation Course online exam and complete a minimum of three years of the NI-approved CPD programme or complete the NI DP Refresher Course. Those who do not meet all the new requirements will be given 12 months to do so, after which they can reapply for revalidation.
- 1 Jan 2027** A DPO/DPVM with 150 days DP sea time who is applying for revalidation will have to sit the NI Revalidation Course online exam and complete a minimum of four years of the NI-approved CPD programme or complete the NI DP Refresher Course. Those who do not meet all the new requirements will be given 12 months to do so, after which they can reapply for revalidation.
- 1 Jan 2028** A DPO/DPVM with 150 days DP sea time who is applying for revalidation will have to sit the NI Revalidation Course online exam and complete a minimum of five years of the NI-approved CPD programme or complete the NI DP Refresher Course. Those who do not meet all the new requirements will be given 12 months to do so, after which they can reapply for revalidation.
- 1 Jan 2029** A DPO/DPVM with 150 days DP sea time who is applying for revalidation will have to sit the NI Revalidation Course online exam and complete a minimum of five years of the NI-approved CPD programme or complete the NI DP Refresher Course. Since from 1st January 2029, the 12 months latitude to complete the CPD programme does not apply.

MARINE OPERATIONS TRAINING

STABILITY THEORY (STABILITY 1)

Duration	Cost per Delegate	Venue
4 Days (including exam)	£1,387+VAT	Marine Training Centre

Availability Visit our website for the latest available dates. To enquire about additional dates or to set up a course specifically for your company, please contact the [ASET Customer Service Team](#).

About this Course

Target Audience

- Personnel with no formal stability training or qualifications who intend to become Ballast Control Operators or who have responsibility for Ballast Control Operators.
- Personnel who do not hold an IMO STCW (International Maritime Organisation Standard of Training Certification and Watchkeeping) deck certificate and whose flag state accepts this course for entry onto stability competence courses for Mobile Offshore Units (MOUs). This course is suitable for all MOU personnel involved in stability calculations, including self-elevating platforms (Jack-Ups).
- Personnel who wish to gain an understanding of basic stability theory in their pursuit of an Offshore Installation Manager (OIM) certificate for self-jacking platforms.

Prerequisites

There are no prerequisites for this course.

Practical Content

0%

Theoretical Content 100%

Key Learning Outcomes

Gain an understanding of fundamental stability concepts, calculations and their application.

Course Content

- Terminology
- States of equilibrium
- Initial stability
- Longitudinal and transverse stability
- Hydrostatics

Assessment

Delegates will undertake a multiple-choice examination to demonstrate they have achieved the key learning outcomes listed above.

Certification



IADC (International Association of Drilling Contractors) Certificate internationally recognised by the offshore industry.

PPE Requirements

PPE not required.

Further Information

This course meets Part 1 of the previous IADC Comprehensive Stability Programme 'A'. The certificate issued complies with the requirements of the United Kingdom and Canada; US Coast Guard (USCG); and the International Maritime Organization (IMO) requirement A.1079(28) for the selection and training of Ballast Control Operators.

MARINE OPERATIONS TRAINING

OFFSHORE STABILITY AND BALLAST CONTROL FOR SEMI-SUBMERSIBLES (STABILITY 2)

Duration	Cost per Delegate	Venue
4 Days (including exam)	£1,387 +VAT	Marine Training Centre

Availability Visit our website for the latest available dates. To enquire about additional dates or to set up a course specifically for your company, please contact the [ASET Customer Service Team](#).

About this Course

Target Audience Personnel involved in ballast control operations who satisfy the entry requirements detailed below and who need to progress to the Ballast Control Simulator (Stability 3) course.

Prerequisites Delegates must provide their Stability Theory (Stability 1) Certificate prior to acceptance on the course, or possess IMO STCW Deck Certification, e.g. Officer of the Watch or higher.

Practical Content 0% **Theoretical Content** 100%

Key Learning Outcomes Develop a further understanding of the response of column-stabilised floating units to loading and environmental forces and damage control.

Course Content

- Hydrostatic parameters
- List and trim
- Damaged stability
- Deck loading
- Motions in a seaway
- Mooring system effects
- Ballast control
- Operating procedures
- Daily loading reports

Assessment Delegates will undertake a multiple-choice examination to demonstrate they have achieved the key learning outcomes listed above.

Certification

 IADC (International Association of Drilling Contractors) Certificate internationally recognised by the offshore industry. Expiry 5-years.

PPE Requirements PPE not required.

Further Information This course meets Part 2 of the previous IADC Comprehensive Stability Programme 'A'. The certificate issued complies with the requirements of the United Kingdom and Canada; US Coast Guard (USCG); and the International Maritime Organization (IMO) requirement A.1079(28) for the selection and training of Ballast Control Operators.

MARINE OPERATIONS TRAINING

BALLAST CONTROL SIMULATOR COURSE (STABILITY 3)

Duration	Cost per Delegate	Venue
3 Days	£1,851+VAT	Marine Training Centre

Availability Visit our website for the latest available dates. To enquire about additional dates or to set up a course specifically for your company, please contact the [ASET Customer Service Team](#).

About this Course

Target Audience Personnel who have completed the requirements of Stability 1 and 2 of the training for Ballast Control Operators.

Prerequisites Delegates must submit a copy of their Stability 2 Certificate achieved within 5 years prior to acceptance on the course.

Practical Content 80% **Theoretical Content** 20%

Key Learning Outcomes Develop skills and knowledge in the handling of Ballast Control operations in simulated, normal and emergency situations.

Course Content Comprehensive stability instruction utilising full-motion simulators to replicate extreme wind and sea conditions and emergency situations. The course covers:

- Collision
- Loss of watertight integrity
- Blackout (local and total)
- Equipment failure
- Shift of cargo
- Severe weather
- Mooring failure

Assessment Delegates will undertake a practical exercise to demonstrate they have achieved the key learning outcomes listed above.

Certification  IADC (International Association of Drilling Contractors) Certificate internationally recognised by the offshore industry. Expiry 2-years.

PPE Requirements PPE not required.

Further Information This course uses a unique high fidelity semi-submersible simulator with hydraulically actuated motion to replicate all aspects of stability and ballast control operations.

This course meets the final part of the previous IADC Comprehensive Stability Programme 'A'. The certificate issued complies with the requirements of the United Kingdom and Canada, US Coast Guard (USCG) and the International Maritime Organization (IMO) Requirement A.1.079(28) for the selection and training of Ballast Control Operators.

MARINE OPERATIONS TRAINING

BALLAST CONTROL SIMULATOR REFRESHER COURSE (STABILITY 4)

Duration	Cost per Delegate	Venue
2 Days	£1,387 +VAT	Marine Training Centre
		Remote Training Simulation Available

Availability Visit our website for the latest available dates. To enquire about additional dates or to set up a course specifically for your company, please contact the [ASET Customer Service Team](#).

About this Course

Target Audience Experienced Ballast Control Operators who have previously completed their training and require re-certification.

Prerequisites Delegates must submit a copy of their Stability 3 or previous Stability 4 Certificate achieved within the last 2 years and 6 months prior to acceptance on the course.

Practical Content 90% **Theoretical Content** 10%

Key Learning Outcomes To update experience of emergency conditions.

Course Content Comprehensive stability instruction utilising full-motion simulators to replicate extreme wind and sea conditions and emergency situations. The course covers:

- Collision
- Loss of watertight integrity
- Blackout (local and total)
- Equipment failure
- Shift of cargo
- Severe weather
- Mooring failure

Assessment Delegates will undertake a practical exercise to demonstrate they have achieved the key learning outcomes listed above.

Certification



**IADC
DIT**

IADC (International Association of Drilling Contractors) internationally recognised by the offshore industry.

PPE Requirements PPE not required.

Further Information

- This course uses a unique high fidelity semi-submersible simulator with hydraulically actuated motion to replicate all aspects of stability and ballast control operations.
- The certificate issued complies with the requirements of the United Kingdom and Canada, US Coast Guard (USCG) and the International Maritime Organization (IMO) requirement A1079(28) for the selection and Training of Ballast Control Operators
- A skills refresher course is recommended every 2 years.

MARINE OPERATIONS TRAINING

MARINE OPERATIONS OF SELF-ELEVATING PLATFORMS (JACK-UP RIGS)

Duration	Cost per Delegate	Venue
3 Days	£2,137 +VAT	Marine Training Centre

Availability Visit our website for the latest available dates. To enquire about additional dates or to set up a course specifically for your company, please contact the [ASET Customer Service Team](#).

About this Course

Target Audience Management and operational personnel from rig operators, engineers, offshore consultants and other personnel requiring information and instruction relevant to the marine operation of a Jack-Up installation.

Prerequisites There are no prerequisites for this course.

Practical Content 70% **Theoretical Content** 30%

Key Learning Outcomes Develop skills and gain an understanding of theoretical and practical considerations for safely moving a Jack-Up unit from one location to another.

Course Content

- History and types of units
- Elevated operations
- Management of operations
- Stability and marine operations
- Foundations and elevated operations
- Rig moving practice (wet and dry transport)
- Accidents and losses
- Simulated exercises

Assessment Delegates will undertake practical exercises to demonstrate they have achieved the key learning outcomes listed above.

Certification  ASET International Energy Training Academy Certificate internationally recognised by the offshore industry (valid for 4-years).

PPE Requirements PPE not required.

Further Information This course uses a unique high fidelity Jack-Up simulator and hydraulically actuated motion to replicate all aspects of 3 and 4 leg Jack Ups, including dynamic experience of “punch through, “overpull” and “rack phase difference (RPD) issues”.

It is recommended that all personnel who attend this course sit the Refresher course every 4 years in order to maintain and provide evidence of ongoing occupational competence.

MARINE OPERATIONS TRAINING

MARINE OPERATIONS OF SELF-ELEVATING PLATFORMS (JACK-UP RIGS) REFRESHER COURSE

Duration	Cost per Delegate	Venue
2 Days	£1,285+VAT	Marine Training Centre

Availability Visit our website for the latest available dates. To enquire about additional dates or to set up a course specifically for your company, please contact the [ASET Customer Service Team](#).

About this Course

Target Audience Management and operational personnel from rig operators, engineers, offshore consultants and other personnel who have previously completed the Marine Operations of Self Elevating Platforms course and require a refresher and re-certification.

Prerequisites Delegates must have previously completed the ASET 3 day Marine Operations of Self- Elevating Platforms (Jack-Up Rigs) within the previous 4 years.


Practical Content 70% **Theoretical Content** 30%

Key Learning Outcomes To update experience on practical considerations for safely moving a Jack-Up unit from one location to another.

Course Content

- History and types of units
- Elevated operations
- Management of operations
- Stability and marine operations
- Foundations and elevated operations
- Rig moving practice (wet and dry transport)
- Accidents and losses
- Simulated exercises

Assessment Delegates will undertake practical exercises to demonstrate they have achieved the key learning outcomes listed above.

Certification  ASET International Energy Training Academy Certificate internationally recognised by the offshore industry (valid for 4-years).

PPE Requirements PPE not required.

Further Information This course uses a unique high fidelity Jack-Up simulator and hydraulically actuated motion to replicates all aspects of 3 and 4 leg Jack Ups, including dynamic experience of “punch through, “overpull” and “rack phase difference (RPD) issues”.

It is recommended that all personnel who attend this course sit the Refresher course every 4 years in order to maintain and provide evidence of ongoing occupational competence.

MARINE OPERATIONS TRAINING

FPSO MARINE OPERATIONS AWARENESS

Duration	Cost per Delegate	Venue
2 Days	£1,000+VAT	Marine Training Centre

Availability Visit our website for the latest available dates. To enquire about additional dates or to set up a course specifically for your company, please contact the [ASET Customer Service Team](#).

About this Course

Target Audience Offshore Installation Managers (OIMs), engineers, supervisors and team leaders, who have no background knowledge of marine operations.

Prerequisites There are no prerequisites for this course.

Practical Content 20% **Theoretical Content** 80%

Key Learning Outcomes Gain an understanding of the theoretical and practical considerations of marine operations on a Floating Production Storage and Offloading (FPSO) and the background and ongoing development of these units.

Course Content

- History and types of units
- Moorings and subsea layouts
- Loading and oil storage
- Stability and hull stresses
- Shuttle tanker operations and offloading
- Preparations for tank entry
- Environmental protection, safety case & HUFIDS
- Maintenance

Assessment Delegates will undertake exercises to demonstrate they have achieved the key learning outcomes listed above.

Certification  ASET International Energy Training Academy Certificate.

PPE Requirements PPE not required.

MARINE OPERATIONS TRAINING

RIG MOVE OPERATIONS

Duration	Cost per Delegate	Venue
2 Days	£1,695+VAT	Marine Training Centre

Availability Visit our website for the latest available dates. To enquire about additional dates or to set up a course specifically for your company, please contact the [ASET Customer Service Team](#).

About this Course

Target Audience All Offshore/Onshore-based Personnel who are looking to gain knowledge of Rig Move Operations for Mobile Offshore Units MOU (JackUp and Semi-Submersibles)

Prerequisites There are no prerequisites for this course.

Practical Content 60% **Theoretical Content** 40%

Key Learning Outcomes

- Planning a rig move operation.
- Review of certification and documents required to carry out a safe and cost effective rig move.
- Different types of equipment and processes involved in a rig move operation.
- Rig move mobilization.

Course Content

- Rig Moving Operations
- Offshore requirements and mobilisation
- Risk Assessments (HIRA)
- Towing operations
- Weather restrictions
- Site survey data
- Jacking operations
- RPD (Rack Phase Difference)
- Anchor deployment and recovery operations both conventional and deep water
- Time Estimates
- Trigger Points
- Weather Window
- Insurance Cross tensioning of anchors
- Catenaries and Mooring Analysis
- Pre-Laying utilising one or two AHV's
- Hook up operations
- Standard and Specialist Mooring Equipment
- Transiting between Locations (Towing or under power)
- Safe Havens – Incidents and Accidents
- Certificates and Documents required to carry out a safe and cost effective rig move
- Stability and Ballast Control.

Assessment Delegates will undertake a practical exercise to demonstrate they have achieved the key learning outcomes listed above.

Certification  ASET International Energy Training Academy Certificate.

PPE Requirements PPE not required.

Further Information This course uses a unique high fidelity mobile offshore unit rig simulator with hydraulically actuated motion to replicates all aspects of rig move operations.

MARINE OPERATIONS TRAINING

RADIOTELEPHONY RESTRICTED OPERATORS CERTIFICATE (ROC) (GMDSS)

Duration	Cost per Delegate	Venue
3 Days (including exam)	£893+VAT	Altens Training Centre

Availability Visit our website for the latest available dates. To enquire about additional dates or to set up a course specifically for your company, please contact the [ASET Customer Service Team](#).

About this Course

Target Audience Offshore radio operators and other personnel who are required to operate transmitters on VHF Maritime Frequencies (within GMDSS Sea Area A1).

Prerequisites There are no prerequisites for this course.

Practical Content 60% **Theoretical Content** 40%

Key Learning Outcomes

- Gain an understanding of VHF radiotelephony procedures in the maritime mobile service.
- Develop the skills to operate the relevant equipment.
- Understand operational procedures of the Global Maritime Distress and Safety System (GMDSS) and have the ability to explain detailed practical operation of all sub-systems and equipment.

Course Content

- Safety of life at sea
- GMDSS communication procedures and regulations
- Operation of VHF radio equipment
- Operation of digital selective calling and Navtex equipment
- Emergency Position Indicating Radio Beacons (EPIRBs) and Search and Rescue Transponders (SARTs)

Assessment Delegates will undertake a written examination paper, radio communication exercise and operational performance test to demonstrate they have achieved the key learning outcomes detailed above. These are assessed by an external AMERC (Association of Marine Electronic and Radio Colleges) examiner and the exam papers are then sent to AMERC for verification.

Certification



GMDSS Restricted Operators Certificate (ROC) is issued by AMERC following verification of the examination papers.

PPE Requirements PPE not required.

Further Information This classroom based course is delivered using a live and integrated Transas computer based satellite communication simulator.

This certificate is the minimum level of maritime qualification required by professional seafarers. It meets all STCW conditions; is the minimum requirement for the MCA Certificates of Competence; and provides a license to operate as required by the Wireless Telegraphy Act 2006 for persons transmitting on Marine frequencies.

MARINE OPERATIONS TRAINING

RADIOTELEPHONY GENERAL OPERATORS CERTIFICATE (GOC) (GMDSS)

Duration	Cost per Delegate	Venue
9 Days (including exam)	£1,566+VAT	Altens Training Centre

Availability Visit our website for the latest available dates. To enquire about additional dates or to set up a course specifically for your company, please contact the [ASET Customer Service Team](#).

About this Course

Target Audience Offshore radio operators and other personnel who are required to operate transmitters on Maritime Frequencies (within any Sea Area/beyond GMDSS Sea Area A1).

Prerequisites There are no prerequisites for this course.

Practical Content 60% **Theoretical Content** 40%

Key Learning Outcomes

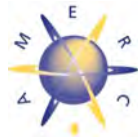
- Develop the skills and knowledge to operate and identify Global Maritime Distress and Safety System (GMDSS) equipment
- Understand VHF/HF/MF, satellite, radiotelephony and telex procedures and operational procedures of GMDSS.
- Understand and the detailed practical operation of all sub-systems and equipment.

Course Content

- Safety of life at sea
- GMDSS communication procedures and regulations
- Operation of VHF/MF/HF radio equipment
- Operation of digital selective calling, Navtex equipment and Inmarsatc
- Emergency Position Indicating Radio Beacons (EPIRBs) and Search and Rescue Transponders (SARTs)

Assessment Delegates will undertake a written examination paper, radio communication exercise and operational performance test to demonstrate they have achieved the key learning outcomes detailed above. These are assessed by an external AMERC (Association of Marine Electronic and Radio Colleges) examiner and the exam papers are then sent to AMERC for verification.

Certification



GMDSS General Operators Certificate (GOC) is issued by AMERC following verification of the examination papers.

PPE Requirements PPE not required.

Further Information This classroom based course is delivered using a live and integrated Transas computer based satellite communication simulator

This certificate is the highest level of radio operator's licence available to professional seafarers. It meets all STCW conditions; is a requirement for unlimited MCA Certificates of Competence; and provides a licence to operate as required by the Wireless Telegraphy Act 2006 for persons transmitting on Marine frequencies.

MARINE OPERATIONS TRAINING

CIVIL AVIATION AUTHORITY (CAA) OFFSHORE COMMUNICATION SERVICE RADIO OPERATOR

Duration	Cost per Delegate	Venue
2 Days (including exam)	£413+VAT	Altens Training Centre

Availability Visit our website for the latest available dates. To enquire about additional dates or to set up a course specifically for your company, please contact the [ASET Customer Service Team](#).

About this Course

Target Audience Personnel operating airband VHF radio equipment in the offshore industry eg. helicopter landing officers, control room operators, crane operators and stand-by vessel officers.

Prerequisites There are no prerequisites for this course.

Practical Content 0% **Theoretical Content** 100%

Key Learning Outcomes Gain the knowledge, competence and skills necessary for the use of the CAA radiotelephony service in the offshore industry in accordance with Cap 452 Aeronautical Radio Station Operators Guide.

Course Content

- Communication techniques
- Aeronautical radio stations
- Offshore aeronautical service
- Distress and urgency procedures

Assessment Delegates will undertake a written examination paper and radio communication exercise to demonstrate they have achieved the key learning outcomes listed above.

Certification



CAA Offshore Communication Service (OCS) Certificate.

PPE Requirements PPE not required.

Further Information Delegates must bring Government issued ID.

MECHANICAL ENGINEERING TRAINING

CUSTOMER FEEDBACK

"Really good course to embed knowledge"

Tom Hayes, Manchester Airport Storage and Hydrant Company
Centrifugal Pump Maintenance and Troubleshooting,
November 2023

"Course is great and useful, recommending for others thank you!"

Rolands Murnieks, Cordiners Sawmills Ltd
Diesel Engine Servicing and Fault Finding,
October 2023

"Good instructions, excellent equipment, clean workshop - good question answering session too"

Robert Carmichael, KCA Deutag Drilling
Flange Make-up and Bolting for Integrity,
February 2024

"Interesting course with lots of good information delivered by a very good instructor."

Kenny Wilson, AW Elements Ltd
Hydraulic Engineering Fundamentals - Stage 1
January 2024

"Steve was very informative and helped me clearly understand course content."

Callum Rafrafi, TAQA Bratani
Pressure Testing for Technicians,
February 2024

MECHANICAL ENGINEERING TRAINING

AUTHORISED PERSON (AP) IN PRESSURE SYSTEMS (MECHANICAL)

Duration	Cost per Delegate	Venue
3 Days	£898+VAT	Altens Training Centre

Availability Visit our website for the latest available dates. To enquire about additional dates or to set up a course specifically for your company, please contact the [ASET Customer Service Team](#).

About this Course

Target Audience Personnel responsible for directly managing, overseeing or auditing safe systems of work within the scope of Pressure Systems Safety Regulations 2000 (PSSR) and Management of Health and Safety in Defence JSP 375 (e.g. boiler or other stored pressure mechanical systems).

Prerequisites There are no prerequisites for this course.

Practical Content 30% **Theoretical Content** 70%

Key Learning Outcomes

- Understand the application of regulations and legislation within pressure systems.
- Application of understanding and knowledge of the working properties of a pressure system.
- Understanding of the requirements of safe systems of work.

Course Content

- System definitions (physical properties of systems)
- Mechanical systems and components, steam and hot water boilers
- Compressed air
- Legislation (Pressure Systems Safety Regulations 2000)
- Legislation and guidance for authorised person
- Authorised person roles and responsibilities
- Safety rules and procedures, demarcation and auditing
- Operational procedures risk assessment and isolation
- Identify hazard, risk, and control measures
- Selection and implementation of isolation methods
- Safe systems of work
- Line walk, run up and safe monitoring of plant equipment

Assessment Delegates will undertake a multiple-choice examination paper to demonstrate they have achieved the key learning outcomes detailed above.

Certification



City & Guilds 9841.

PPE Requirements Hard hat, safety footwear, coveralls, safety glasses and gloves.

Further Information This course is classroom based with exclusive practical use of ASET's market leading live and fully integrated ABCOL Oil & Gas Production Training Platform to underpin knowledge gained.

MECHANICAL ENGINEERING TRAINING

CENTRIFUGAL PUMP MAINTENANCE AND TROUBLESHOOTING

Duration	Cost per Delegate	Venue
2 Days	£704 +VAT	Clinterty Training Centre

Availability Visit our website for the latest available dates. To enquire about additional dates or to set up a course specifically for your company, please contact the [ASET Customer Service Team](#).

About this Course

Target Audience Technicians or engineers who service and/or operate and maintain centrifugal pumps, both single and multistage.

Prerequisites There are no prerequisites for this course.

Practical Content 90% **Theoretical Content** 10%

Key Learning Outcomes

- Knowledge of centrifugal pump maintenance & troubleshooting.
- Gain the skills and technical knowledge for precision measurement taking and to ensure proper maintenance and efficient troubleshooting.

Course Content

- Introduction to dynamic and positive displacement pumps
- Soft packings and mechanical seal gland closures
- Selection criteria for soft packing
- Pump construction and design configurations (single/multistage, centre hung/overhung impellers), highlighting wear points and failure modes
- Bearing arrangements; mounting and dismounting
- Measuring, recording and judging critical fits and clearances
- Seal installation procedures
- Practical work comprising: dismantling, inspection and measurement, rebuilding of a single stage end suction pump
- Routine maintenance requirements

Assessment Delegates will undertake a multiple-choice examination paper to demonstrate they have achieved the key learning outcomes detailed above.

Certification  ASET International Energy Training Academy Certificate.

PPE Requirements Safety footwear, coveralls, safety glasses and gloves.

MECHANICAL ENGINEERING TRAINING

DIESEL ENGINE SERVICING AND FAULT FINDING

Duration	Cost per Delegate	Venue
2 Days	£811+VAT	Clinterty Training Centre

Availability Visit our website for the latest available dates. To enquire about additional dates or to set up a course specifically for your company, please contact the [ASET Customer Service Team](#).

About this Course

Target Audience Technicians or operators who are required to operate and maintain diesel-powered plant.

Prerequisites There are no prerequisites for this course.

Practical Content 50% **Theoretical Content** 50%

Key Learning Outcomes

- Understand the construction and operating principles of diesel engines.
- Gain knowledge to carry out first line servicing routines and fault finding on industrial diesel engines.

Course Content

- Presentation on diesel engine construction, operating principles, fault finding and routine servicing
- Run a diesel engine and carry out a performance test to determine machine condition
- Carry out scheduled servicing on the: coolant system, lubrication system, fuel system and air induction system
- Carry out fault finding on common diesel engine starting and running faults
- Select and use appropriate test equipment and procedures for fault finding on diesel engines
- Identify suitable remedial actions to rectify faults on a diesel engine

Assessment Delegates will undertake a multiple-choice examination paper to demonstrate they have achieved the key learning outcomes detailed above.

Certification  ASET International Energy Training Academy Certificate.

PPE Requirements Safety footwear, coveralls, safety glasses and gloves.

ECITB MJI 10: HAND TORQUE BOLTED CONNECTION TECHNIQUES

Duration	Cost per Delegate	Venue
1 Day	£311+VAT	Clinterty Training Centre

Availability Visit our website for the latest available dates. To enquire about additional dates or to set up a course specifically for your company, please contact the [ASET Customer Service Team](#).

About this Course

Target Audience Qualified technicians or supervisors who are involved with or in charge of mechanical joint integrity.

Prerequisites Delegates will be required to complete the ECITB DELO1B prior to attendance.

Practical Content 60% **Theoretical Content** 40%

Key Learning Outcomes

- Prepare work areas, equipment and materials for bolted connection tasks.
- Understand tightening and torquing sequences for flanged connections.
- Perform hand torqued bolted connections.

Course Content

- Explain how to ensure intended task conforms to related specification, methods, process, techniques and procedure
- Dismantle hand torque bolted connection systems
- Remove components from hand torque bolted connection systems
- Replace components in hand torque bolted connection systems
- Assemble, secure and hand torque bolted connections
- Verify the integrity of the assembled joint

Assessment Delegates will undertake an ECITB multiple choice examination paper and practical trade test to demonstrate they have achieved the Key Learning Outcomes detailed above.

Certification



PPE Requirements Safety footwear, coveralls, safety glasses and gloves.

Further Information Employers who are registered with ECITB may be eligible for ECITB funding support for this course. Please contact your local ECITB account manager.

MECHANICAL ENGINEERING TRAINING

ECITB MJI 18: HYDRAULICALLY TENSIONED BOLTED CONNECTIONS

Duration	Cost per Delegate	Venue
1 Day	£311+VAT	Clinterty Training Centre

Availability Visit our website for the latest available dates. To enquire about additional dates or to set up a course specifically for your company, please contact the [ASET Customer Service Team](#).

About this Course

Target Audience Qualified technicians or supervisors who are involved with or in charge of Mechanical Joint Integrity.

Prerequisites Delegates will be required to complete the ECITB DELO1B prior to attendance.

Practical Content 60% **Theoretical Content** 40%

Key Learning Outcomes

- Prepare work areas, equipment and materials for bolted connection tasks.
- Understand tensioning and tightening sequences for flanged connections.
- Perform hydraulically tensioned bolted connection activities.

Course Content

- Explain how to ensure intended task conforms to related specification, methods, process, techniques and procedure
- Dismantle hydraulically tensioned bolted connection systems
- Remove components from hydraulically tensioned bolted connection systems
- Replace components in hydraulically tensioned bolted connection systems
- Assemble, secure and hydraulically tensioned bolted connections
- Verify the integrity of the assembled joint

Assessment Delegates will undertake an ECITB multiple choice examination paper and practical trade test to demonstrate they have achieved the Key Learning Outcomes detailed above.

Certification



ECITB Certificate of Training.

PPE Requirements Safety footwear, coveralls, safety glasses and gloves.

Further Information Employers who are registered with ECITB may be eligible for ECITB funding support for this course. Please contact your local ECITB account manager.

MECHANICAL ENGINEERING TRAINING

ECITB MJI 10,18,19: MECHANICAL JOINT INTEGRITY

Duration	Cost per Delegate	Venue
2 1/2 Days	£668+VAT	Clinterty Training Centre

Availability Visit our website for the latest available dates. To enquire about additional dates or to set up a course specifically for your company, please contact the [ASET Customer Service Team](#).

About this Course

Target Audience Qualified technicians or supervisors who are involved with or in charge of Mechanical Joint Integrity.

Prerequisites Delegates will be required to complete the ECITB DELO1B prior to attendance.

Practical Content 60% **Theoretical Content** 40%

Key Learning Outcomes These courses will enable the workforce to work towards their competency with a structured set of tools including full training on all tightening disciplines, work based task assignments & technical testing.

Course Content

MJI 10: Hand Torque Bolted Connections

- Explain how to ensure intended task conforms to related specification, methods, process, techniques and procedure
- Dismantle hand torque bolted connection systems
- Remove components from hand torque bolted connection systems
- Replace components in hand torque bolted connection systems
- Assemble, secure and hand torque bolted connections.
- Verify the integrity of the assembled joint.

MJI 18:Hydraulically Tensioned Bolted Connections

- Explain how to ensure intended task conforms to related specification, methods, process, techniques and procedure
- Dismantle hydraulically tensioned bolted connection systems.
- Remove components from hydraulically tensioned bolted connection systems
- Replace components in hydraulically tensioned bolted connection systems
- Assemble, secure and hydraulically tensioned bolted connections.
- Verify the integrity of the assembled joint.

MJI 19:Hydraulically Torque Connection Techniques

- Explain how to ensure intended task conforms to intended specification, methods, process, techniques and procedure
- Dismantle hydraulically torqued bolted connection systems
- Remove components from hydraulically torqued bolted connection systems
- Replace components in hydraulically torqued bolted connection systems
- Assemble, secure and hydraulically torqued bolted connections
- Verify the integrity of the assembled joint

Assessment Delegates will undertake an online ECITB examination and practical exercises to demonstrate that they have achieved the key learning outcomes detailed above.

Certification



PPE Requirements Safety footwear, coveralls, safety glasses and gloves.

Further Information Employers who are registered with ECITB may be eligible for ECITB funding support for this course. Please contact your local ECITB account manager.

MECHANICAL ENGINEERING TRAINING

ECITB MJI 10 AND MJI 19: HAND TORQUE BOLTED CONNECTION TECHNIQUES/HYDRAULICALLY TORQUE CONNECTION TECHNIQUES

Duration	Cost per Delegate	Venue
2 Days	£653+VAT	Clinterty Training Centre

Availability Visit our website for the latest available dates. To enquire about additional dates or to set up a course specifically for your company, please contact the [ASET Customer Service Team](#).

About this Course

Target Audience Qualified technicians or supervisors who are involved with or in charge of mechanical joint integrity.

Prerequisites Delegates will be required to complete the ECITB DELO1B prior to attendance.

Practical Content 60% **Theoretical Content** 40%

Key Learning Outcomes

- Prepare work areas, equipment and materials for bolted connection tasks.
- Understand tightening and torquing sequences for flanged connections.
- Perform hand torqued bolted connections.
- Understand hydraulic tightening and torquing sequences for flanged connections.
- Perform hydraulically torqued bolted connection activities.

Course Content

MJI 10: Hand torque Bolted Connection Techniques:

- Explain how to ensure intended task conforms to related specification, methods, process, techniques and procedure
- Dismantle hand torqued bolted connection systems
- Remove components from hand torque bolted connection systems
- Replace components in hand torque bolted connection systems
- Assemble, secure and hand torque bolted connections
- Verify the integrity of the assembled joint

MJI 19: Hydraulically Torque Connection Techniques:

- Explain how to ensure intended task conforms to intended specification, methods, process, techniques and procedure
- Dismantle hydraulically torqued bolted connection systems
- Remove components from hydraulically torqued bolted connection systems
- Replace components in hydraulically torqued bolted connection systems
- Assemble, secure and hydraulically torque bolted connections
- Verify the integrity of the assembled joint

Assessment Delegates will undertake an ECITB multiple choice examination paper and practical trade test to demonstrate they have achieved the Key Learning Outcomes detailed above.

Certification



PPE Requirements Safety footwear, coveralls, safety glasses and gloves.

Further Information Employers who are registered with ECITB may be eligible for ECITB funding support for this course. Please contact your local ECITB account manager.

MECHANICAL ENGINEERING TRAINING

ECITB SBT01: ASSEMBLE AND INSTALL SMALL BORE TUBING WITH TWIN FERRULE MECHANICAL GRIP FITTINGS

Duration	Cost per Delegate	Venue
2 Days	£683+VAT	Clinterty Training Centre

Availability Visit our website for the latest available dates. To enquire about additional dates or to set up a course specifically for your company, please contact the [ASET Customer Service Team](#).

About this Course

Target Audience Personnel who have responsibility for the installation or inspection of small bore pipe work and fittings.

Prerequisites Delegates will be required to complete the ECITB DELO1B prior to attendance.

Practical Content 80% **Theoretical Content** 20%

Key Learning Outcomes

- Knowledge of working safely and minimising risk at all times.
- Understanding of how to plan and configure small bore tubing assemblies.
- Understand relevant health and safety legislation, regulations and safe working practices and procedures.
- Understand the terminology, techniques and practices for planning and configuring small bore tubing assemblies.

Course Content

- Small Bore Tubing (SBT) systems overview
- Health and safety
- Use of engineering drawings
- Environmental and/or corrosion issues
- Tube and component identification, selection, storage and handling
- Tube and component installation and maintenance
- Tube and component assembly, disassembly, reassembly
- Common do's and don'ts
- Differences between taper and parallel threads and how to identify both
- Thread lubricants, sealants and tapes and how to use both correctly
- Tube cutting, de-burring and bending
- Practical exercises include:
 - *How to correctly identify fittings/components from different manufacturers including sizing, material etc
 - *Twin ferrule mechanical grip fitting assembly, disassembly and reassembly
 - *Rolled offset calculating, marking up, cutting, de-burring and bending tube
 - *Tube gain calculating, marking up, cutting, de-burring and bending tube
 - *Installing a SBT run and associated components into existing SBT system and subjecting to quality control procedures

Assessment Delegates will undertake an ECITB multiple choice examination paper and practical trade test to demonstrate they have achieved the Key Learning Outcomes detailed above.

Certification



ECITB Certificate of Training.

PPE Requirements Safety footwear, coveralls, safety glasses and gloves.

Further Information Employers who are registered with ECITB may be eligible for ECITB funding support for this course. Please contact your local ECITB account manager.

ECITB MJI 33: TORQUE AND TENSION WIND TURBINE BOLTED CONNECTIONS

Duration	Cost per Delegate	Venue
1 Days	£311+ VAT	Clinterty Training Centre

Availability Visit our website for the latest available dates. To enquire about additional dates or to set up a course specifically for your company, please contact the [ASET Customer Service Team](#).

About this Course

Target Audience Candidates who have no previous experience of working with hand or hydraulic torqued or hydraulically tensioned bolt tightening, but may also be used to upskill candidates who have some knowledge of but not of its application in wind turbines.

Prerequisites Delegates will be required to complete the ECITB DELO1B prior to attendance.

Practical Content 70% **Theoretical Content** 30%

Key Learning Outcomes

- Recognise which sections of a wind turbine may require hydraulic torquing or tensioning.
- Understand bolt assemblies used in wind turbine joint sections.
- Understand the basic principles of hand torque tightening.
- Understand the basic principles of hydraulic torque tightening of wind turbine joint sections.
- Understand health and safety requirements specific to the operation of hydraulic torque and tensioning equipment.
- Correctly torque bolts using hand and hydraulic tools.
- Correctly tension bolts using hydraulic tools.

Course Content

- Wind turbine sections
- Bolt components
- Stud and bolt specifications
- Application and functions of hand torque tightening
- Application and functions of hydraulic torque equipment
- Application and functions of hydraulic tensioning equipment
- Hazards associated with hydraulic torque and tension activities
- Preparation of materials, equipment and tools
- Procedures for use of hand torque wrench and impact socket
- Procedures for use of hydraulic torque equipment on wind turbine joint sections
- Relevant procedures for use of wind turbine specific hydraulic tensioning equipment on jointed sections
- De-pressurise, disconnect and inspect the condition of the hydraulic tools
- Secure and reinstate the work area when hydraulic torque and tension activities are completed

Assessment Delegates will undertake an ECITB multiple choice examination paper and practical trade test to demonstrate they have achieved the Key Learning Outcomes detailed above.

Certification



PPE Requirements Safety footwear, coveralls, safety glasses and gloves.

Further Information Employers who are registered with ECITB may be eligible for ECITB funding support for this course. Please contact your local ECITB account manager.

MECHANICAL ENGINEERING TRAINING

FLANGE MAKE UP AND BOLTING FOR INTEGRITY

Duration	Cost per Delegate	Venue
3 Days	£898+VAT	Clinterty Training Centre

Availability Visit our website for the latest available dates. To enquire about additional dates or to set up a course specifically for your company, please contact the [ASET Customer Service Team](#).

About this Course

Target Audience Mechanical engineers and technicians who require to gain competence in flange make up and bolting for integrity.

Prerequisites There are no prerequisites for this course.

Practical Content 70% **Theoretical Content** 30%

Key Learning Outcomes

- Understand safe working practices in relation to flange make up and bolting for integrity.
- Demonstrate the ability to prepare an area for work.
- Demonstrate an understanding and knowledge of the removal, replacement and testing of components within a mechanical plant.
- Understand the basic principles of flange make up and bolting for integrity.
- Interpret the health and safety requirements related to Flange make up and bolting for integrity.

Course Content

- Introduction to flanged joints, focusing on the energy and engineering industries. Types of flange, materials, sizes and pressure/temperature rating to BS1560-3.1/ ANSI B16.5 standards
- Gasket types, applications, materials selection and identification, installation procedures and requirements
- HSE & industry initiatives toward hydrocarbon leak reduction and staff training and competence
- Piping classification methods and maintaining systems to design standard through correct material selection
- Flange inspection, defect identification and rejection criteria, and repair methods
- Flange make up procedures, bolt tensioning methods, control and management, using hand spanners, torque wrenches, hydraulic torque and tensioning equipment
- Calculation of hydraulic pressures required to achieve desired bolt tension
- Use of standards prepared by industry bodies.

Assessment Delegates will undertake a multiple-choice examination paper to demonstrate they have achieved the key learning outcomes detailed above.

Certification



City & Guilds 9841 Certificate.

PPE Requirements Safety footwear, coveralls, safety glasses and gloves.

HOSE ASSEMBLY AND INSPECTION

Duration	Cost per Delegate	Venue
2 Days	£505+VAT	Clinterty Training Centre

Availability Visit our website for the latest available dates. To enquire about additional dates or to set up a course specifically for your company, please contact the [ASET Customer Service Team](#).

About this Course

Target Audience Technicians or engineers who have little or no experience of hose assembly/ inspection.

Prerequisites There are no prerequisites for this course.

Practical Content 40% **Theoretical Content** 60%

Key Learning Outcomes

- Understand all relevant health and safety procedures related to hose assembly/ inspection.
- Understand safe working practices both with making and inspecting hose assemblies.
- Learn how to set up swaging equipment, test and inspect flexible hose assemblies.
- Fault identification and rectification.

Course Content

- Hazards associated with hose assembly and testing
- The importance of pre-use checks and identification of faults
- Correct hose assembly using hydraulic hose swaging equipment
- Practice the design, assembly, test and inspect of hydraulic hoses
- Choosing the correct hose ends and thread identification
- Hose identification/ choosing the correct hose for different applications
- Legislation and guidance when making new hose assemblies

Assessment Delegates will undertake a multiple-choice examination paper and practical exercises to demonstrate they have achieved the key learning outcomes detailed above.

Certification  ASET International Energy Training Academy Certificate.

PPE Requirements Safety footwear, coveralls, safety glasses and gloves.

HYDRAULIC ENGINEERING FUNDAMENTALS – STAGE 1

Duration	Cost per Delegate	Venue
3 Days	£949+VAT	Clinterty Training Centre

Availability Visit our website for the latest available dates. To enquire about additional dates or to set up a course specifically for your company, please contact the [ASET Customer Service Team](#).

About this Course

Target Audience Technicians or engineers who have little or no experience of hydraulic fluid power systems operating principles or maintenance practices.

Prerequisites There are no prerequisites for this course

Practical Content 40% **Theoretical Content** 60%

Key Learning Outcomes

- Understand safe working practices.
- Demonstrate the ability to prepare an area for work.
- Demonstrate the creation and design of basic hydraulic circuits.
- Practice the design, assembly, monitoring and evaluation of hydraulic circuits and complete the related basic hydraulic calculations.
- Understand hydraulic engineering fundamentals basics.

Course Content

- Hydraulic principles, hydraulic component construction and operating principles
- Hydraulic drawings and symbols used, including introduction to Festo SIM5 software
- Hydraulic pumps and motors, design and operating principles
- Filters, filtration and fluid cleanliness standards
- Valves and actuators
- Safety considerations
- Constructing simple systems and testing performance

Assessment Delegates will undertake a multiple-choice examination paper to demonstrate they have achieved the key learning outcomes detailed above.

Certification  ASET International Energy Training Academy Certificate.

PPE Requirements Safety footwear, coveralls, safety glasses and gloves.

Further Information This course is delivered using a range of Festo Didactic Hydraulic and Electrohydraulic Training Rigs.

MECHANICAL ENGINEERING TRAINING

HYDRAULIC ENGINEERING FAILURE ANALYSIS AND TROUBLESHOOTING – STAGE 2

Duration	Cost per Delegate	Venue
3 Days	£949+VAT	Clinterty Training Centre

Availability Visit our website for the latest available dates. To enquire about additional dates or to set up a course specifically for your company, please contact the [ASET Customer Service Team](#).

About this Course

Target Audience Technicians or engineers who have previously attended the Hydraulic Engineering Fundamentals – Stage 1 course.

Prerequisites Delegates must have previously attended Hydraulic Engineering Fundamentals: Stage 1.

Practical Content 50% **Theoretical Content** 50%

Key Learning Outcomes

- Reinforce knowledge and general understanding of safe systems of working.
- Develop skills and ability to analyse and troubleshoot elements within hydraulic systems.

Course Content

- Knowledge of hydraulic fluids, properties and safe handling
- The need for pro-active maintenance and what to monitor
- Different types of hydraulic pump, how they work and failure analysis
- Different types of valve and actuator, how they work and failure analysis
- The application of hose assemblies, where and why they are used and failure analysis
- Understanding of 700 Bar hydraulics, explanation and associated safety considerations
- Open loop proportional control
- Logical troubleshooting skills
- Use of Festo SIM5 software

Assessment Delegates will undertake a multiple-choice examination paper to demonstrate they have achieved the key learning outcomes detailed above.

Certification



ASET International Energy Training Academy Certificate.

PPE Requirements Safety footwear, coveralls, safety glasses and gloves.

Further Information This course is delivered using a range of Festo Didactic Hydraulic and Electrohydraulic Training Rigs.

MECHANICAL ENGINEERING TRAINING

HYDRAULIC ENGINEERING SYSTEMS DESIGN AND ADVANCED TROUBLESHOOTING – STAGE 3

Duration	Cost per Delegate	Venue
3 Days	£949+VAT	Clinterty Training Centre

Availability Visit our website for the latest available dates. To enquire about additional dates or to set up a course specifically for your company, please contact the [ASET Customer Service Team](#).

About this Course

Target Audience Technicians and Engineers who have previously attended the Hydraulic Engineering Fundamentals – Stage 1 and Hydraulic Engineering Failure Analysis and Troubleshooting – Stage 2 courses.

Prerequisites Delegates must have previously attended the Hydraulic Engineering Failure Systems and Analysis: Stage 2 course.

Practical Content 50% **Theoretical Content** 50%

Key Learning Outcomes

- Reinforce knowledge and general understanding of safe systems of working.
- Develop skills and ability to design and troubleshoot within a hydraulic system at an advanced level.
- Gain practical knowledge of working to an advanced level within hydraulic systems.
- Understanding of use of various types of control techniques within hydraulic systems.

Course Content

- How to choose the best hydraulic pump utilising selection and performance characteristics
- How to choose the best hydraulic valve utilising selection and performance characteristics
- Appreciation of proportional components and closed loop proportional controls.
- Logical fault finding skills
- Use of Festo SIM5 software

Assessment Delegates will undertake a multiple-choice examination paper to demonstrate they have achieved the key learning outcomes detailed above.

Certification  ASET International Energy Training Academy Certificate.

PPE Requirements Safety footwear, coveralls, safety glasses and gloves.

Further Information This course is delivered using a range of Festo Didatic Hydraulic and Electrohydraulic Training Rigs.

MECHANICAL ENGINEERING TRAINING

MECHANICAL PLANT INSPECTION

Duration	Cost per Delegate	Venue
2 Days	£704+VAT	Clinterty Training Centre

Availability Visit our website for the latest available dates. To enquire about additional dates or to set up a course specifically for your company, please contact the [ASET Customer Service Team](#).

About this Course

Target Audience Engineers, Technicians and Supervisors with a mechanical engineering background in mechanical maintenance who have responsibility for integrity management or inspection.

Prerequisites There are no prerequisites for this course.

Practical Content 40% **Theoretical Content** 60%

Key Learning Outcomes

- Understand safe working practices.
- Demonstrate the ability to prepare an area for work.
- Carry out a performance and condition test on mechanical plant.
- Understand the basic principles of mechanical plant inspection.

Course Content

- Levels of competence and certification of individuals and inspection bodies to BS EN 17020
- Duties & responsibilities of inspectors
- Description of types of plant included in the inspection scope and associated inspection requirements
- Statutory Regulations/Instruments, standards and codes relevant to inspection/ integrity management
- Inspection techniques, aids and NDE (non destructive examination) methods
- Materials of construction, failure mechanisms, equipment fault modes
- Inspection & maintenance strategies, including risk & reliability based models
- Pressure vessel & piping inspection to API510 & API570, methodology, defect/damage assessment and recording/ reporting of data & anomalies
- Pressure testing methods, procedures, standards and codes and witnessing requirements
- Inspection & testing of valves
- Performance standards & written schemes of examination for safety critical equipment/ systems on offshore installations, PFEER (Prevention of Fire and Explosion and Emergency Response)
- Safety Case Regulations, DCR & Verification written schemes and Pressure Systems Safety Regulations

Assessment Delegates will undertake a multiple-choice examination paper to demonstrate they have achieved the key learning outcomes detailed above.

Certification  ASET International Energy Training Academy Certificate.

PPE Requirements Safety footwear, coveralls, safety glasses and gloves.

PRACTICAL DIESEL ENGINE OVERHAUL

Duration	Cost per Delegate	Venue
5 Days	£959+VAT	Clinterty Training Centre

Availability Visit our website for the latest available dates. To enquire about additional dates or to set up a course specifically for your company, please contact the [ASET Customer Service Team](#).

About this Course

Target Audience Technicians and Engineers, who in performing their normal duties, will be required to carry out major dismantling and rebuilding of diesel engines. Delegates must possess basic mechanical skills in the use of hand tools and precision measurement.

Prerequisites There are no prerequisites for this course.

Practical Content 90% **Theoretical Content** 10%

Key Learning Outcomes

- Gain an understanding of the basic operating principles of practical diesel engine overhaul.
- Demonstrate the required knowledge to prepare a safe area and understand the safe working practices in relation to practical diesel engine overhaul.
- Develop the knowledge and skills to fully dismantle, reassemble, and carry out necessary testing on a diesel engine.

Course Content

- Diesel engine construction, operating principles
- Prepare for and carry out a full diesel engine strip down, maintaining correct orientation of parts
- Take appropriate measures to protect and preserve fine tolerance machined components
- Use safe and appropriate dismantling methods and aids
- Check wear dimensions, fits and running clearances on crankshaft bearings, pistons, cylinder liners etc. and choose appropriate remedial actions when these are out of tolerance
- Perform non-destructive examination of components using dye penetrant, magnetic particle and visual inspection techniques
- Rebuild the diesel engine applying bolt torques, setting clearances and following assembly procedures as prescribed in the makers manual
- Test, overhaul and adjust fuel injectors
- Install all ancillary components and carry out compression test, coolant system leak test, set fuel pump timing & bleed fuel lines
- Start, run and test a diesel engine, fault finding and resolving starting and running problems

Assessment Delegates will undertake a multiple-choice examination paper to demonstrate they have achieved the key learning outcomes detailed above.

Certification  ASET International Energy Training Academy Certificate.

PPE Requirements Safety footwear, coveralls, safety glasses and gloves.

PRESSURE TESTING FOR TECHNICIANS

Duration	Cost per Delegate	Venue
1 Day	£704+VAT	Clinterty Training Centre

Availability Visit our website for the latest available dates. To enquire about additional dates or to set up a course specifically for your company, please contact the [ASET Customer Service Team](#).

About this Course

Target Audience Engineers and Technicians from a non-mechanical discipline who require an understanding and know-how of the fundamentals of pressure testing. Mechanical Engineers and technicians who wish to enhance their existing skills in relation to pressure testing.

Prerequisites There are no prerequisites for this course.

Practical Content 50% **Theoretical Content** 50%

Key Learning Outcomes

- Understand health and safety procedures and practices related to pressure testing.
- Illustrate a knowledge of the basic principles of pressure testing.

Course Content

- Pressure testing definitions and general requirements
- Proof testing, strength testing and reinstatement leak testing explained
- Hydrostatic and pneumatic testing and their applications
- National standards and HSE codes of practice relating to pressure testing
- Hazards involved in pressure testing, and risk reduction measures
- Testing standards, and acceptance or rejection criteria
- Preparation for pressure testing, checklists, risk assessments, documentation requirements, instrument protection and system flushing, test equipment calibration (pressure gauges, chart recorders), and using appropriate test media
- Marking up piping and instrumentation diagrams (P&IDs)/Piping Isometric drawings (ISOs) with test boundaries, preparing a test record pack establishing test pressure & Duration requirements, and determining the maximum permissible system operating pressures according to piping class

Assessment Delegates will undertake a multiple-choice examination paper to demonstrate they have achieved the key learning outcomes detailed above.

Certification



City & Guilds 9841 Certificate.

It is recommended that all delegates who attend this course attend the Pressure Testing for Technicians Refresher training course every 4 years.

PPE Requirements Safety footwear, coveralls, safety glasses and gloves.

Further Information This is a classroom based course, combined with practical training exercises to underpin knowledge gained.

PRESSURE TESTING FOR TECHNICIANS REFRESHER COURSE

Duration	Cost per Delegate	Venue
1/2 Day	£423+VAT	Clinterty Training Centre

Availability Visit our website for the latest available dates. To enquire about additional dates or to set up a course specifically for your company, please contact the [ASET Customer Service Team](#).

About this Course

Target Audience Engineers or technicians who have undertaken ASET International Energy Training Academy's Pressure Testing for Technicians training course and who require to demonstrate they are still occupationally knowledgeable in relation to pressure testing.

Prerequisites Delegates are required to hold a current Pressure Testing for Technicians certificate.

Practical Content 60% **Theoretical Content** 40%

Key Learning Outcomes

- Understand health and safety procedures and practices related to pressure testing.
- Illustrate a knowledge of the basic principles of pressure testing.

Course Content

- Pressure testing definitions and general requirements
- Proof, strength and reinstatement leak testing, including valves
- Pressure testing methods
- Preparation and procedure for pressure testing
- Acceptance or rejection criteria and test recording
- Hazards involved in pressure testing and safety requirements
- Delegates to perform a demonstration of a pressure test

Assessment Delegates will undertake a multiple-choice examination paper to demonstrate they have achieved the key learning outcomes detailed above.

Certification



City & Guilds 9841 Certificate.

PPE Requirements Safety footwear, coveralls, safety glasses and gloves.

Further Information This is a classroom based course combined with practical exercises to underpin knowledge gained.

MECHANICAL ENGINEERING TRAINING

ROTATING MACHINERY ALIGNMENT TECHNIQUES

Duration	Cost per Delegate	Venue
3 Days	£898+VAT	Clinterty Training Centre

Availability Visit our website for the latest available dates. To enquire about additional dates or to set up a course specifically for your company, please contact the [ASET Customer Service Team](#).

About this Course

Target Audience Mechanical engineers and technicians who require to gain competence in the alignment of rotating machinery.

Prerequisites There are no prerequisites for this course.

Practical Content 80% **Theoretical Content** 20%

Key Learning Outcomes

- Understand the basic principles of rotating machinery alignment techniques.
- Understand safe working practices associated with rotating machinery alignment.
- Demonstrate the ability to prepare an area for work.
- Apply a performance and condition test of mechanical plant and apply needed adjustments.
- Gain knowledge of the health and safety issues regarding rotating machinery alignment techniques.

Course Content

- Introduction to various power transmission devices
- Use of dial test indicators to measure face and rim run out on drive hubs
- Definitions of misalignment conditions & how to accurately determine these using dial test indicators for 'face & periphery' and 'reverse alignment' techniques. Practical exercises concentrate on reverse alignment and calculation of shim requirements
- How to position offsets to allow for thermal and dynamic growth of machine casings
- Preparing alignment records & reports
- Alignment of machine shafts using modern laser alignment equipment, and practical exercises

Assessment Delegates will undertake a multiple-choice examination paper to demonstrate they have achieved the key learning outcomes detailed above.

Certification  ASET International Energy Training Academy Certificate.

PPE Requirements Safety footwear, coveralls, safety glasses and gloves.

MECHANICAL ENGINEERING TRAINING

SMALL BORE TUBING AND PIPEWORK

Duration	Cost per Delegate	Venue
2 Days	£811+VAT	Clinterty Training Centre

Availability Visit our website for the latest available dates. To enquire about additional dates or to set up a course specifically for your company, please contact the [ASET Customer Service Team](#).

About this Course

Target Audience Engineers, technicians, supervisors and any personnel who have responsibility, or will be assuming responsibility, for the installation or inspection of small bore tubing and fittings.

Prerequisites There are no prerequisites for this course.

Practical Content 70% **Theoretical Content** 30%

Key Learning Outcomes

- Demonstrate an understanding of the principles of safe working.
- Gain knowledge in the preparation of components and how to identify the condition of small bore tubing pipework.
- Understand how to carry out a performance test on the condition of small bore tubing pipework in a mechanical plant.
- Ability to recognise the Health and Safety issues related to small bore tubing and pipework.
- Gain an understanding of the principles of small bore tubing and pipework.

Course Content

- Pipe and tubing materials and their applications, size and pressure rating, bending and joining processes including compression fittings
- Threaded fittings, types of thread, assembly procedures and related industry standards
- Measuring and marking out tubing for accurate bending using bend allowance calculations
- Tube cutting and bending, use of hand tube bending machines
- Assembly of compression fittings
- Hydrostatic pressure test of manufactured assembly

Assessment Delegates will undertake a multiple-choice examination paper to demonstrate they have achieved the key learning outcomes detailed above.

Certification  ASET International Energy Training Academy Certificate.

PPE Requirements Safety footwear, coveralls, safety glasses and gloves.

MECHANICAL ENGINEERING TRAINING

VALVE MAINTENANCE AND VALVE PRESSURE TESTING

Duration	Cost per Delegate	Venue
3 Days	£704+VAT	Clinterty Training Centre

Availability Visit our website for the latest available dates. To enquire about additional dates or to set up a course specifically for your company, please contact the [ASET Customer Service Team](#).

About this Course

Target Audience Engineers and technicians from a non-mechanical discipline who require an understanding and know-how of the fundamentals of valve maintenance and valve pressure testing. Mechanical engineers and technicians who wish to refresh or enhance their existing skills in relation to valve maintenance and valve pressure testing.

Prerequisites There are no prerequisites for this course.

Practical Content 80% **Theoretical Content** 20%

Key Learning Outcomes

- Demonstrate an understanding of the principles of safe working.
- Gain knowledge in the preparation of components and how to identify the condition of valves and their maintenance and testing requirements within a mechanical plant.
- Ability to recognise the health and safety issues related to valve maintenance and testing.
- Gain an understanding of the types and principles of valves.

Course Content

- Introduction to various common types of valve used in industry and their typical construction
- Applications, valve pressure rating and flange classes
- Valve repair and servicing in the field and its practical limitations
- Pressure testing requirements for valves. Hydrostatic and pneumatic testing procedures and current standards. Body leak and seat leakage test procedures to current national standards. Acceptance criteria for leak tests. (Delegates own company standards may be introduced here if provided)
- Hazards involved in valve pressure testing and associated risk reduction measures
- Practical valve overhaul and test of a selection from the following valves; ball, gate, globe, diaphragm

Assessment Delegates will undertake a multiple-choice examination paper to demonstrate they have achieved the key learning outcomes detailed above.

Certification  ASET International Energy Training Academy Certificate.

PPE Requirements Safety footwear, coveralls, safety glasses and gloves.

VALVE IDENTIFICATION AND OPERATION

Duration	Cost per Delegate	Venue
1 Day	£403+VAT	Clinterty Training Centre

Availability Visit our website for the latest available dates. To enquire about additional dates or to set up a course specifically for your company, please contact the [ASET Customer Service Team](#).

About this Course

Target Audience Personnel who are required to be able to identify and understand the operation of all types of valve used in oil, gas, steam and water systems or plant.

Prerequisites Delegates are required to have a basic knowledge of oil, gas, steam and water systems or plant.

Practical Content 40% **Theoretical Content** 60%

Key Learning Outcomes

- Understanding of the types and principles of valves.
- Gain the knowledge and understanding of the operation of the
- Different components of each valve type, within a mechanical plant.
- Ability to interpret the Health and Safety issues related to valve operation.

Course Content

- Identify different types of valves and their components
- Identify valves in a mechanical plant environment: Ball, Gate, Globe, Butterfly, Plug, Diaphragm, Non-return, Needle, Relief valve.)
- Understand the operation of the different components of each valve
- Interpret the health and safety issues related to valve operations

Assessment Delegates will undertake a multiple-choice examination paper to demonstrate they have achieved the key learning outcomes detailed above.

Certification  ASET International Energy Training Academy Certificate.

PPE Requirements Safety footwear, coveralls, safety glasses and gloves.

PROCESS OPERATIONS TRAINING

CUSTOMER FEEDBACK

"Enjoyable course, software was good and easy to understand. Knowledgeable instructor!"

Ross Lawrie, Harbour Energy Services Limited
Process Operations: Control Room Technician
February 2024

"Good course, good instruction with hands on experience/ real life experience - valuable skills learnt"

Scott Hancox, Grissan Engineering Ltd
Safe Isolation and Reinstatement of Plant (SIRP)
April 2024

"Always learn something new even after 20+ years in the industry!"

Richard Jepson, Petrofac
Safe Isolation and Reinstatement of Plant (SIRP)
March 2024

FAMILIARISATION OF A CHEMICAL INJECTION SYSTEM

Duration	Cost per Delegate	Venue
1 Day	£638+VAT	Altens Training Centre

Availability Visit our website for the latest available dates. To enquire about additional dates or to set up a course specifically for your company, please contact the [ASET Customer Service Team](#).

About this Course

Target Audience Engineers or technicians who require, or may be required to set up and/or operate a chemical injection skid.

Prerequisites There are no prerequisites for this course.

Practical Content 50% **Theoretical Content** 50%

Key Learning Outcomes

- Gain an awareness of a chemical injection skid.
- Understand production chemical injection.
- Awareness of hazards involved with chemical injection.
- Gain the knowledge and skills to monitor and optimize the chemical injection skid.
- Understanding of general troubleshooting methods.

Course Content

- Overview of a chemical injection skid on the ABCOL Oil & Gas Production Training Platform
- Production chemical testing and related chemicals
- Hazards involved with chemical injection and related regulations
- Monitoring and optimization of the system
- General troubleshooting

Assessment Delegates will undertake a multiple-choice examination paper to demonstrate they have achieved the key learning outcomes detailed above.

Certification  ASET International Energy Training Academy Certificate.

PPE Requirements Safety footwear, coveralls, safety glasses, hard hat.

Further Information This course exclusively uses ASET's market leading live and fully integrated ABCOL Oil & Gas Production Training Platform, allowing the delegates a live and hands on experience on a live replicated offshore process plant.

INTRODUCTION AND APPRECIATION OF PROCESS CONTROL

Duration	Cost per Delegate	Venue
3 Days	£923+VAT	Altens Training Centre

Availability

Visit our website for the latest available dates. To enquire about additional dates or to set up a course specifically for your company, please contact the [ASET Customer Service Team](#).

About this Course

Target Audience

Personnel who are involved in running a process plant, but require a deeper understanding of the components of control loops, calibration of measurement sensors, final control elements, use of diagnostic software and practical loop tuning. It is suitable for personnel who are new to process control or wish to obtain a better understanding of process control operations.

Prerequisites

There are no prerequisites for this course.

Practical Content

60%

Theoretical Content 40%

Key Learning Outcomes

- Understand the purpose of each element in the control loop.
- Problems that may occur and the optimal functioning of such loops.
- Awareness of the reasons for various control strategies.
- Gain knowledge and understanding of the role performed by instrument engineers and technicians and the importance of teamwork.

Course Content

- Items around the feedback loop
- The importance of measurement in control
- The final regulating device (valves etc.)
- The process
- The controller
- Control strategies
- Tuning methods
- Loop analysis
- The current state of the average loop
- The main problems encountered in loops
- Examples of such problems taken from plants around the world
- Control from the operator's point of view
- The current situation
- The desirable situation
- The importance of teamwork between various disciplines
- Practical exercises on the ABCOL Oil & Gas Production Training Platform
- Loop analysis
- Problems in loops
- The behaviour of various types of optimally tuned loops

Assessment

Delegates will undertake a multiple-choice examination paper to demonstrate they have achieved the key learning outcomes detailed above.

Certification



ASET International Energy Training Academy Certificate.

PPE Requirements

Safety footwear, coveralls, safety glasses, hard hat.

INTRODUCTION TO PROCESS SAFETY

Duration	Cost per Delegate	Venue
2 Day	£852 +VAT	Altens Training Centre

Availability Visit our website for the latest available dates. To enquire about additional dates or to set up a course specifically for your company, please contact the [ASET Customer Service Team](#).

About this Course

Target Audience The course is designed for health and safety or operational personnel working in a production environment who wish to gain an understanding of the safety factors involved in onshore and offshore process operations.

Prerequisites There are no prerequisites for this course.

Practical Content 60% **Theoretical Content** 40%

Key Learning Outcomes

- Understand the importance of process safety.
- Gain knowledge of hazards and process risk tolerability.
- Understand the process safety in design and asset integrity.
- Understand process safety management systems.
- Understand the importance of safety monitoring.
- Gain an awareness of human factors, culture and leadership in process safety.

Course Content

- Importance of process safety
- A model for process safety incidents
- Key hazards
- Hazard identification and risk assessment techniques
- Risk tolerability
- Process safety in design
- Asset integrity
- Legal framework
- Management systems and continuous improvement
- Management of change
- Monitoring and assurance
- Human factor
- Safety culture and leadership

Assessment Delegates will undertake a multiple-choice examination paper to demonstrate they have achieved the key learning outcomes detailed above.

Certification  ASET International Energy Training Academy Certificate.

PPE Requirements Safety footwear, coveralls, safety glasses, hard hat.

Further Information This course exclusively uses ASET's market leading live and fully integrated ABCOL Oil & Gas Production Training Platform, allowing the delegates a live and hands on experience on a live replicated offshore process plant.

PROCESS OPERATIONS TRAINING

INTRODUCTION TO THE OIL AND GAS INDUSTRY (FROM DISCOVERY TO REFINERY)

Duration	Cost per Delegate	Venue
2 Days	£893+VAT	Altens Training Centre

Availability Visit our website for the latest available dates. To enquire about additional dates or to set up a course specifically for your company, please contact the [ASET Customer Service Team](#).

About this Course

Target Audience Personnel requiring an overview and understanding of the UK upstream and downstream oil and gas industries. This course is ideal for new entrants to the oil & gas industry or personnel wishing to gain a greater understanding.

Prerequisites There are no prerequisites for this course.

Practical Content 40% **Theoretical Content** 60%

Key Learning Outcomes

- Understanding of oil and gas formation, exploration and production.
- Gain a knowledge of well operations and associated hazards.
- Understand the hazards of oil and gas exploration and production.

Course Content

- Petroleum geology and reservoir formation
- Oil exploration
- Well operations
- Drilling and completion
- Production process equipment layout from reservoir to storage/export
- Hazards associated with production operations
- Process operations including production fundamentals
- Practical exercises the ABCOL Oil & Gas Production Training Platform
- Distributed control systems (DCS)
- Emergency shutdown systems (ESD)
- Fire and gas systems
- Refinery operations

Assessment Delegates will undertake a multiple-choice examination paper to demonstrate they have achieved the key learning outcomes detailed above.

Certification  ASET International Energy Training Academy Certificate.

PPE Requirements Safety footwear, coveralls, safety glasses, hard hat.

Further Information This course exclusively uses ASET's market leading live and fully integrated ABCOL Oil & Gas Production Training Platform, allowing the delegates a live and hands on experience on a live replicated offshore process plant.

OPITO AUTHORISED GAS TESTER (AGT)

Duration	Cost per Delegate	Venue
2 Day	£454+VAT	Altens Training Centre

Availability Visit our website for the latest available dates. To enquire about additional dates or to set up a course specifically for your company, please contact the [ASET Customer Service Team](#).

About this Course

Target Audience Personnel preparing to work as Authorised Gas Tester (AGT). In the workplace persons undertaking standby/safety watch duties at the entrance to a confined space shall be an AGT or Gas Monitor.

For those involved with performing a test for oxygen, flammable and toxic gases up to and including working in confined spaces for those involved with testing for flammable gases in preparation for hot work and those who provide safety watch duties by the ongoing monitoring of a hot work site.

Prerequisites There are no prerequisites for this course.

Practical Content 0% **Theoretical Content** 100%

Key Learning Outcomes

- Gain awareness of relevant legislative controls
- Understand the principles and use of atmosphere measuring and monitoring equipment
- Learn how to interpret and document results
- Understanding of gas testing for hot work and gas testing in confined spaces
- Understand the responsibilities of providing safety watch duties

Course Content

- Unit OIS-102 Authorised Gas Tester
- Unit OIS-103 Testing for flammable gas in preparation for hot work
- Unit OIS-104 Confined Space Testing
- Unit OIS-105 Gas Monitoring

Assessment Delegates will undertake a multiple-choice examination paper to demonstrate they have achieved the key learning outcomes detailed above.

Certification

 OPITO Certificate, valid for 3-years.

PPE Requirements PPE not required.

PROCESS OPERATIONS: CONTROL ROOM TECHNICIAN

Duration	Cost per Delegate	Venue
3 Days	£923+VAT	Altens Training Centre

Availability Visit our website for the latest available dates. To enquire about additional dates or to set up a course specifically for your company, please contact the [ASET Customer Service Team](#).

About this Course

Target Audience This course is for technicians making a move into the control room. They should possess a good understanding of basic process principles.

Prerequisites There are no prerequisites for this course.

Practical Content 70% **Theoretical Content** 30%

- Key Learning Outcomes**
- Gain an understanding of plant startups within control room operations.
 - Demonstrate an ability to operate plant startups within control room operations.

- Course Content**
- Introduction to the course, introduction to the use of the TSC laptop simulators, presentation and practical exercises using blackstart procedures for three selected utility systems (Instrument and Service Air, Power Generation, and Seawater), and end of day multiple choice knowledge check test
 - Presentation and practical exercises using blackstart procedures for Wells, Separation and Oil Export, and end of day multiple choice knowledge check test
 - Presentation and practical exercises using blackstart procedures for Gas compression and Triethylene Glycol (TEG) dehydration systems, and end of day multiple choice knowledge check test

Assessment Delegates will undertake a multiple-choice examination paper to demonstrate they have achieved the key learning outcomes detailed above.

Certification  ASET International Energy Training Academy Certificate.

PPE Requirements PPE not required.

Further Information This course exclusively uses ASET’s state of the art live and integrated process operations computer based software.

PROCESS OPERATIONS TRAINING

SAFE ISOLATION AND REINSTATEMENT OF PLANT (SIRP)

Duration	Cost per Delegate	Venue
2 Days	£893+VAT	Altens Training Centre

Availability Visit our website for the latest available dates. To enquire about additional dates or to set up a course specifically for your company, please contact the [ASET Customer Service Team](#).

About this Course

Target Audience Engineers or technicians who require, or may be required to carry out or supervise the safe isolation of process plant equipment.

Prerequisites There are no prerequisites for this course.

Practical Content 70% **Theoretical Content** 30%

Key Learning Outcomes Gain an understanding, required knowledge and skills to demonstrate competency when carrying out isolation operations to the required industry standard.

Course Content

- This course is based on the HSE standard HSG 253 "The Safe Isolation of Plant and Equipment"
- Isolation definitions
- Risk assessment
- Permit to work
- Isolation procedures
- Planning an isolation
- Desktop exercises – using a ranking table to identify what level of isolation is required
- Key stages of process isolation:
 - *Vessel entry
 - *Lock out and tag out
 - *Line walk
 - *Isolate plant and equipment
 - *De-Isolate plant and equipment
 - *Re-commissioning plant and equipment

Assessment Delegates will undertake a multiple-choice examination paper to demonstrate they have achieved the key learning outcomes detailed above.

Certification



City & Guilds 9841 Certificate.

PPE Requirements Safety footwear, coveralls, safety glasses, hard hat.

Further Information This ASET course has become an industry standard for personnel carrying out safe isolations of plant and equipment. The course exclusively uses ASET's market leading live and fully integrated ABCOL Oil & Gas Production Training Platform, allowing the delegates a live and hands on experience on a live replicated offshore process plant.

PROCESS OPERATIONS TRAINING

UNDERSTANDING OF P&IDS

Duration	Cost per Delegate	Venue
1 Day	£505+VAT	Altens Training Centre

Availability Visit our website for the latest available dates. To enquire about additional dates or to set up a course specifically for your company, please contact the [ASET Customer Service Team](#).

About this Course

Target Audience Personnel who want a general understanding on how to read, interpret and mark up a process and instrumentation drawing.

Prerequisites There are no prerequisites for this course.

Practical Content 20% **Theoretical Content** 80%

Key Learning Outcomes

- Understand P&ID design fundamentals, layout and layers
- Recognise the various symbols of instruments and devices
- Identify piping, equipment and instrument codes
- Explain control theory and the importance of process control loops

Course Content

- Carry out a review of selected P&ID layouts (generic and company specific)
- Using a legend sheet, identify P&ID symbols, equipment and piping designation codes
- Discuss the requirements for, and operation of basic control loops
- Participate in a line walking exercise of selected plant against P&ID's
- Discussion on the procedure of "red lining" a P&ID

Assessment Delegates will undertake a series of short multiple choice question papers to demonstrate an understanding of the Key Learning Outcomes.

Certification  ASET International Energy Training Academy Certificate.

PPE Requirements Safety footwear, coveralls, safety glasses, hard hat.

Further Information This course exclusively uses ASET's market leading live and fully integrated ABCOL Oil & Gas Production Training Platform, allowing the delegates a live and hands on experience of oil and gas production operations.

RENEWABLES ENERGY TRAINING

CUSTOMER FEEDBACK

"Trainer was very helpful and knowledgeable."

Callum Campbell, CDC Services Ltd
EV Vehicle Charging
August 2022

"Well designed course with a variety of relays to test, well executed by Austin."

Elliot O'Donnell, Dana Petroleum
Power Systems Protection (Protection Relays)
June 2023

"Austin was excellent, explained training material and practical material well, thank you!"

Ross Reader, Brockwell Energy Limited
HV Switching & System Control (City & Guilds 0672)
May 2023

"Good instructor, good food, good facility."

Aidan Cannon, Cannon Access Solutions Ltd
ECITB MJI 10, 18 & 19: Mechanical Joint Integrity
November 2022

"Gordon delivered course very professionally and easy to understand. Kevin also very helpful!"

Keith Batty, IES Callenberg
Rotating Machinery Alignment Techniques
June 2023

"Very well informed instructor, engaged well with students and committed to ensuring a good learning experience for all in class."

John Douglas, TDC (Aberdeen) Ltd
Level 3 Award in the Design and Installation of Domestic and Small Commercial Electrical Vehicle Charging Installations
May 2022

GWO BASIC SAFETY TRAINING (BST) ONSHORE

Duration	Cost per Delegate	Venue
4 Days	£800+VAT	Clinterty Training Centre

Availability Visit our website for the latest available dates. To enquire about additional dates or to set up a course specifically for your company, please contact the [ASET Customer Service Team](#).

About this Course

Target Audience Personnel who will be working in the wind industry or related fields and will have their duties in a wind turbine environment, usually in physical contact with a wind turbine or WTG structure.

Prerequisites Delegates are required to be WINDA registered before arriving for the course. To register please visit <https://winda.globalwindsafety.org/register/> and follow the instructions through the delegate registration portal. Please contact our Customer Service Team if you need assistance with this.

Practical Content 30% **Theoretical Content** 70%

Key Learning Outcomes Upon completion of the Basic Safety Training modules, participants will be able to possess an awareness of the hazards encountered when working within the wind industry and how to control and mitigate these hazards. The BST will also equip participants with the knowledge, skills, and confidence to appropriately respond in the event of an emergency and to increase their safety through proper use of personal protective equipment, emergency equipment and procedures. The approved GWO Basic Safety Training (BST) provides participants with important skills, which include fire awareness, first aid, working at heights, and manual handling.

Course Content

- **First Aid** - This module covers identifying and managing injuries and illnesses, emergency response in Wind Turbine Generator environments, and using lifesaving techniques, including Primary and Secondary Surveys, AED operation, and first aid equipment.
- **Manual Handling** - This module covers safe manual handling practices, identifying risks of musculoskeletal injuries, recognizing injury symptoms, and applying risk reduction techniques in compliance with local legislation, specifically in a wind turbine environment.
- **Fire Awareness** - This module emphasizes fire safety awareness, including compliance with local regulations, identifying fire risks, safe manual handling practices, recognizing injury symptoms, and applying risk reduction strategies within a wind turbine environment.
- **Working at Height** - This module covers working at height in wind turbines, including hazard awareness, compliance with height safety legislation, PPE identification and use, equipment inspection, safe ladder conduct, evacuation techniques, and rescue procedures.

Assessment Continuous observation of the candidate's performance during the course; including practical tasks, questioning and group discussion.

Certification  GWO Certificate, valid for 2-years.

PPE Requirements Safety footwear, gloves and hard hat.

Further Information Delegates are required to fill in a medical self-assessment form to certify they are capable of fully participating.

RENEWABLES ENERGY TRAINING

GWO BASIC SAFETY TRAINING (BST) ONSHORE REFRESHER

Duration	Cost per Delegate	Venue
2 Days	£475+VAT	Clinterty Training Centre

Availability Visit our website for the latest available dates. To enquire about additional dates or to set up a course specifically for your company, please contact the [ASET Customer Service Team](#).

About this Course

Target Audience Personnel who will be working in the wind industry or related fields and will have their duties in a wind turbine environment, usually in physical contact with a wind turbine or WTG structure.

Prerequisites Current GWO Working at Height, Fire Awareness, First Aid and Manual Handling certificates OR Current GWO Basic Safety Training certificate

Delegates are required to be WINDA registered before arriving for the course. To register please visit <https://winda.globalwindsafety.org/register/> and follow the instructions through the delegate registration portal. Please contact our Customer Service Team if you need assistance with this.

Practical Content 70% **Theoretical Content** 30%

Key Learning Outcomes The GWO Basic Safety Training Onshore (BST) Refresher will review and build on previously gained knowledge and skills in all of the key modules contained within the GWO Basic Safety Training (BST) Onshore, these are Working at Height, Manual Handling, Fire awareness and First Aid.

Course Content

- **First Aid** - This module covers identifying and managing injuries and illnesses, emergency response in Wind Turbine Generator environments, and using lifesaving techniques, including Primary and Secondary Surveys, AED operation, and first aid equipment.
- **Manual Handling** - This module covers safe manual handling practices, identifying risks of musculoskeletal injuries, recognizing injury symptoms, and applying risk reduction techniques in compliance with local legislation, specifically in a wind turbine environment.
- **Fire Awareness** - This module emphasizes fire safety awareness, including compliance with local regulations, identifying fire risks, safe manual handling practices, recognizing injury symptoms, and applying risk reduction strategies within a wind turbine environment.
- **Working at Height** - This module covers working at height in wind turbines, including hazard awareness, compliance with height safety legislation, PPE identification and use, equipment inspection, safe ladder conduct, evacuation techniques, and rescue procedures.

Assessment Continuous observation of the candidate's performance during the course; including practical tasks, questioning and group discussion.

Certification  GWO Certificate, valid for 2-years.

PPE Requirements Safety footwear, gloves and hard hat.

Further Information Delegates are required to fill in a medical self-assessment form to certify they are capable of fully participating.

GWO BASIC TECHNICAL TRAINING (BTT) BOLT TIGHTENING MODULE

Duration	Cost per Delegate	Venue
1 Day	£500+VAT	Clinterty Training Centre

Availability This module is scheduled within our GWO BTT Combined, visit our website for the latest available dates. Please contact the [ASET Customer Service Team](#) for details on booking this module or to specifically set up a course for you company.

About this Course

Target Audience Candidates who have no previous experience of working with energy powered bolt tightening, but may also be used to upskill candidates who have some knowledge of but not of its application in wind turbines.

Prerequisites Delegates must hold a BTT Mechanical Module prior to attending this course.

Delegates are required to be WINDA registered before arriving for the course. To register please visit <https://winda.globalwindsafety.org/register/> and follow the instructions through the delegate registration portal. Please contact our Customer Service Team if you need assistance with this.

Practical Content 30% **Theoretical Content** 70%

Key Learning Outcomes Training prepares participants for further company specific training by providing them with the necessary training to perform basic bolt tightening tasks.

Course Content

- Bolt tightening in the wind industry
- Bolt torqueing using energy powered tools
- Planning and preparing to torque
- Correctly torque bolts using electrical and hydraulic tools
- Post use inspection and packing up of tools used and post job documentation
- Bolt tensioning using energy powered tools
- Planning and preparing to tension
- Correctly tension bolts using hydraulic tools
- Post use inspection and packing up of tools used and post job documentation
- Using mechanical handling aids with bolt tightening tasks

Assessment Delegates will undertake practical scenarios to demonstrate they have achieved the key learning outcomes detailed above.

Certification



GWO Certificate.

PPE Requirements Safety footwear, coveralls, safety glasses and gloves.

Further information Delegates are required to complete a medical self-assessment form on commencement of the course to certify they are capable of fully participating.

Please note this course will not make the participant a trained person who is allowed to perform bolt tensioning or installation work without supervision.

GWO BASIC TECHNICAL TRAINING (BTT) COMBINED

Duration	Cost per Delegate	Venue
5 Days	£1,377+VAT	Clinterty Training Centre

Availability Visit our website for the latest available dates. To enquire about additional dates or to set up a course specifically for your company, please contact the [ASET Customer Service Team](#).

About this Course

Target Audience Delegates who want to gain a greater understanding on the fundamentals of mechanical, electrical and hydraulic engineering in relation to the renewable energy sector, in particular wind turbines.

Prerequisites Delegates are required to be WINDA registered before arriving for the course. To register please visit <https://winda.globalwindsafety.org/register/> and follow the instructions through the delegate registration portal. Please contact our Customer Service Team if you need assistance with this.

Practical Content 60% **Theoretical Content** 40%

Key Learning Outcomes Gain the skills and understanding of basic mechanical, electrical and hydraulic tasks in a wind turbine environment.

Course Content

<p>Electrical</p> <ul style="list-style-type: none"> Explain the basics of electricity Explain risks and hazards associated with electrical work Explain the function and symbol of electrical components Explain the function of different types of sensors Explain and interpret a simple electrical diagram and demonstrate how to assemble it on a circuit Demonstrate how to make correct and safe measurements <p>Mechanical</p> <ul style="list-style-type: none"> Explain the main components, mechanical systems and the basic operation of wind turbines Explain risks and hazards associated with mechanics Understand the principles of bolted and welded connections and their inspection Demonstrate practical skills in the use of manual tightening and measuring tools Demonstrate the correct use of hydraulic torque and tensioning tools Explain the principles of a gearbox Explain the function of the brake systems and demonstrate how to inspect them Explain the function of the yaw system and explain how to inspect it Explain the function of the cooling system and demonstrate how to inspect it Explain the function of the lubrication system and demonstrate how to inspect it 	<p>Hydraulics</p> <ul style="list-style-type: none"> Explain the basics of hydraulics Explain risks and hazards associated with hydraulic work Explain the function of different types of pumps and demonstrate how to check start/stop pressure of a pump Explain the function of different types of actuators Explain the function of different types of valves Explain the function of accumulators and demonstrate how to check and pre-charge them Explain the function of different types of sensors Identify the components which transfer the oil Describe the handling of oil procedures Identify and find different components on a hydraulic diagram Demonstrate how to measure the hydraulic pressure accurately <p>Bolt Tightening</p> <ul style="list-style-type: none"> Bolt tightening in the wind industry Bolt torquing using energy powered tools Planning and preparing to torque Correctly torque bolts using electrical and hydraulic tools Post use inspection and packing up of tools used and post job documentation Bolt tensioning using energy powered tools Planning and preparing to tension Correctly tension bolts using hydraulic tools Post use inspection and packing up of tools used and post job documentation Using mechanical handling aids with bolt tightening tasks
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Assessment Delegates will undertake a multiple-choice examination paper and practical exercises to demonstrate they have achieved the key learning outcomes detailed above.

Certification  GWO Certificate.

PPE Requirements Safety footwear, coveralls, safety glasses and gloves.

Further Information Delegates are required to complete a medical self-assessment form on commencement of the course to certify they are capable of fully participating.

GWO CONTROL OF HAZARDOUS ENERGIES (COHE) COMBINED

Duration	Cost per Delegate	Venue
3 Days	£959+VAT	Clinterty Training Centre

Availability Visit our website for the latest available dates. To enquire about additional dates or to set up a course specifically for your company, please contact the [ASET Customer Service Team](#).

About this Course

Target Audience Engineers and technicians who are required to understand hazardous energies related to working on wind turbines, their roles and responsibilities, how to create a safe working environment and what to do in both regular and emergency situations.

Prerequisites Delegates must hold a current GWO BTT Hydraulics Module Certificate and a current GWO BTT Electrical Module Certificate.

Delegates are required to be WINDA registered before arriving for the course. To register please visit <https://winda.globalwindsafety.org/register/> and follow the instructions through the delegate registration portal. Please contact our Customer Service Team if you need assistance with this.

Practical Content 40% **Theoretical Content** 60%

Key Learning Outcomes Demonstrate understanding of the risks related to hazardous energies in the wind industry. Understand how to act safely when in the vicinity of hazardous energies or when working on systems and equipment containing hazardous energies.

Course Content

Basic Safety

- Control of hazardous energies basic safety
- Lockout-Tagout for an Ordinary Person
- Mechanical Safety
- Electrical Safety
- Pressure Fluid Safety
- Hazardous energy scenario

Electrical Safety

- Responsibilities and role of a Qualified Electrical Person
- Electrical PPE
- Electrical safe working practices
- Electrically safe working condition
- Testing and isolation
- Stored energy
- Hazardous electrical safety scenario

Pressure Fluid

- Qualified pressure fluids person – requirements and role
- Pressure fluids hazards
- PPE
- Safe working practices
- Response to pressure fluid incidents
- Hazardous pressure fluid scenarios

Assessment Delegates will undertake a multiple-choice examination paper to demonstrate they have achieved the key learning outcomes detailed above.

Certification



GWO Certificate, valid for 2-years.

PPE Requirements

Safety footwear, coveralls, safety glasses and gloves.

Further Information

Delegates are required to complete a medical self-assessment form on commencement of the course to certify they are capable of fully participating.

RENEWABLES ENERGY TRAINING

GWO CONTROL OF HAZARDOUS ENERGIES (COHE) REFRESHER

Duration	Cost per Delegate	Venue
1½ Days	£704+VAT	Clinterty Training Centre

Availability Visit our website for the latest available dates. To enquire about additional dates or to set up a course specifically for your company, please contact the [ASET Customer Service Team](#).

About this Course

Target Audience Engineers and technicians who are required to refresh their knowledge on hazardous energies related to working on wind turbines, their roles and responsibilities, how to create a safe working environment and what to do in both regular and emergency situations.

Prerequisites Delegates must hold a current GWO Control of Hazardous Energies (COHE) certificate achieved within the last 2 years.

Delegates are required to be WINDA registered before arriving for the course. To register please visit <https://winda.globalwindsafety.org/register/> and follow the instructions through the delegate registration portal. Please contact our Customer Service Team if you need assistance with this.

Practical Content 40% **Theoretical Content** 60%

Key Learning Outcomes Demonstrate understanding of the risks related to hazardous energies in the wind industry. Understand how to act safely when in the vicinity of hazardous energies or when working on systems and equipment containing hazardous energies.

Course Content

- Basic Safety
 - Identification and avoidance of safety hazards in a mechanical, electrical and pressure fluid environment.
- Electrical Safety
 - Electrical safe working practices in wind turbines
 - Electrical safe working conditions
 - Safety documentation
- Pressure Fluid
 - Pressure fluid safe working practices
 - Pressure fluid safe working conditions
 - Treatment of pressure systems
 - Safety documentation

Assessment Delegates will undertake a multiple-choice examination paper to demonstrate they have achieved the key learning outcomes detailed above.

Certification  GWO Certificate, valid for 2-years.

PPE Requirements Safety footwear, coveralls, safety glasses and gloves.

Further Information Delegates are required to complete a medical self-assessment form on commencement of the course to certify they are capable of fully participating.

RENEWABLES ENERGY TRAINING

OPITO INTRODUCTION TO MECHANICAL AND ELECTRICAL ENGINEERING IN RENEWABLE ENERGY

Duration	Cost per Delegate	Venue
4 weeks	Please contact us for details.	Altens Training Centre

Availability Visit our website for the latest available dates. To enquire about additional dates or to set up a course specifically for your company, please contact the [ASET Customer Service Team](#).

About this Course

Target Audience Personnel who want to gain a greater understanding on the fundamentals of mechanical and electrical engineering in relation to the renewable energy sector.

Prerequisites There are no prerequisites for this course.

Practical Content 60% **Theoretical Content** 40%

Key Learning Outcomes Gain basic knowledge and principles of working in a mechanical and electrical engineering environment in the renewables energy industry.

Course Content

- RETS-F01: Introduction to General Health and Safety
- RETS-F02: Introduction to Numeracy Skills
- RETS-F03: Introduction to Hand Tools and Power Tools
- RETS-F04: Introduction to Measuring and Marking-out Instruments
- RETS-F05: Introduction to Mechanical Engineering
- RETS-F06: Introduction to Electrical Engineering

Assessment Delegates will undertake an OPITO examination paper and practical exercises to demonstrate they have achieved the key learning outcomes detailed above.

Certification



OPITO Certificate.

PPE Requirements Safety footwear, coveralls, safety glasses and gloves.

RENEWABLES ENERGY TRAINING

MAJOR EMERGENCY MANAGEMENT INITIAL RESPONSE FOR RENEWABLE ENERGY (WIND)

Duration	Cost per Delegate	Venue
3 Days	Please contact us for details.	Altens Training Centre
		Remote Training Simulation Available

Availability Visit our website for the latest available dates. To enquire about additional dates or to set up a course specifically for your company, please contact the [ASET Customer Service Team](#).

About this Course

Target Audience Personnel who are either in charge of, are members of, or provide support to an emergency management team, in an emergency.

Prerequisites Delegates are required to supply a Government issued photographic ID on starting the course.

Practical Content 60% **Theoretical Content** 40%

Key Learning Outcomes

- Understand the key factors of preparing for, responding to, and maintaining control throughout the development or escalation of an emergency situation in the Renewable Energy industry.
- Learn how to manage communication, emergency-related information and put into place predetermined plans at the point when the emergency alarm has been raised, to the point when the emergency manager is assured that the emergency is over.
- Understand how stress can impact on individuals and team performance during emergencies.
- Have the opportunity to role-play as the emergency manager in a minimum of two specific types of emergency scenarios. This is a key element of the training programme and is backed up by constructive feedback from the course instructional team.

Course Content

Theory of Major Emergency Management:

- Major emergencies
- The emergency manager
- Emergency command center (ECC) facilities and information management
- Preplanning and maintaining a state of readiness
- Dealing with stress

Practical Elements of Major Emergency Management:

- Assessing the situation
- Taking effective action
- Maintaining communication
- Delegating authority
- Management of team and self

Assessment Evaluation of delegates will be by continuous observation during command centre simulations, at least two of which must be as the Emergency Manager, each based around a major incident. Delegates will also receive a written analysis of any gaps that exist in their current managerial knowledge and capabilities for commanding a major emergency. These gaps should be met by further training and workplace drills and exercises, at their company's discretion.

Certification

 OPITO Certificate.

PPE Requirements PPE not required.

Further Information Delegates should be aware that there are elements within the course which could prove to be stressful in nature. It is the responsibility of both the sponsoring company and the delegate to highlight any concerns regarding delegate fitness to participate on this course. Delegates will be required to fill in a self-assessment medical form on arrival.

This course exclusively uses ASET's state of the art, live and interactive process operations computer based simulation software which simulates an Emergency Command Centre (ECC).

RENEWABLES ENERGY TRAINING

OPITO EMERGENCY COORDINATOR FOR RENEWABLE ENERGY

Duration	Cost per Delegate	Venue
2 Days	Please contact us for details.	Altens Training Centre

Availability Visit our website for the latest available dates. To enquire about additional dates or to set up a course specifically for your company, please contact the [ASET Customer Service Team](#).

About this Course

Target Audience Personnel who have been deemed ready by their employer to be formally assessed in the role of an Emergency Coordinator during an emergency situation. They must have completed all relevant company specific training and should be employed within the renewables industry.

Prerequisites A Duty Holder declaration and supporting evidence from employer confirming the learner has achieved the performance criteria in Outcome 1 and asset information is to be provided 7 days prior to course commencement as per the OPITO standard.

Delegates will be required to supply a Government issued photographic ID on the day of the course.

Practical Content 60% **Theoretical Content** 40%

Key Learning Outcomes Assessment of competence in the role of an Emergency Coordinator during various emergency situations in a simulated environment.

Course Content

- Maintain a state of readiness
- Assess situation and take effective action
- Maintain communications and coordinate the response to emergencies
- Manage self and team performance
- Relevant information to ensure appropriate actions and communications in the event of an emergency situation

Assessment Delegates will be formally assessed in the role of an Emergency Coordinator during an emergency situation to OPITO Standards.

Certification



OPITO Certificate, valid for 3-years.

Notes to Customers Delegates should be aware that there are elements within the course which could prove to be stressful in nature. It is the responsibility of both the sponsoring company and the delegate to highlight any concerns regarding delegate fitness to participate on this course. Delegates will be required to fill in a self-assessment medical form on arrival.

ECITB MJI 33: TORQUE AND TENSION WIND TURBINE BOLTED CONNECTIONS

Duration	Cost per Delegate	Venue
1 Days	£311+VAT	Clinterty Training Centre

Availability Visit our website for the latest available dates. To enquire about additional dates or to set up a course specifically for your company, please contact the [ASET Customer Service Team](#).

About this Course

Target Audience Candidates who have no previous experience of working with hand or hydraulic torqued or hydraulically tensioned bolt tightening, but may also be used to upskill candidates who have some knowledge of but not of its application in wind turbines.

Prerequisites Delegates will be required to complete a ECITB DELO1B prior to attendance.

Practical Content 70% **Theoretical Content** 30%

Key Learning Outcomes

- Recognise which sections of a wind turbine may require hydraulic torquing or tensioning.
- Understand bolt assemblies used in wind turbine joint sections.
- Understand the basic principles of hand torque tightening.
- Understand the basic principles of hydraulic torque tightening of wind turbine joint sections.
- Understand health and safety requirements specific to the operation of hydraulic torque and tensioning equipment.
- Correctly torque bolts using hand and hydraulic tools.
- Correctly tension bolts using hydraulic tools.

Course Content

- Wind turbine sections
- Bolt components
- Stud and bolt specifications
- Application and functions of hand torque tightening
- Application and functions of hydraulic torque equipment
- Application and functions of hydraulic tensioning equipment
- Hazards associated with hydraulic torque and tension activities
- Preparation of materials, equipment and tools
- Procedures for use of hand torque wrench and impact socket
- Procedures for use of hydraulic torque equipment on wind turbine joint sections
- Relevant procedures for use of wind turbine specific hydraulic tensioning equipment on jointed sections
- De-pressurise, disconnect and inspect the condition of the hydraulic tools
- Secure and reinstate the work area when hydraulic torque and tension activities are completed

Certification



PPE Requirements Safety footwear, coveralls, safety glasses and gloves.

Further Information Employers who are registered with ECITB may be eligible for ECITB funding support for this course. Please contact your local ECITB account manager.

SCAFFOLDING TRAINING

CUSTOMER FEEDBACK

"Have really enjoyed the course and have picked up useful information to take on board. Would recommend it to people looking to expand their career in scaffolding. "

Craig Neave, Private Delegate
Level 3 CISRS Advanced Skills Test,
January 2024

"Very good course and explained well by instructors."

John Findlay, Private Delegate
Level 3 CISRS Advanced Skills Test
February 2023

"Open dialogue/communication with instructor. Great rapport with whole class. Learned a lot in such a short space of time."

Lee Gripton, Scaffolding Youth Apprentice
CISRS Scaffolding Part 1
January 2023

"Richard was first class patience and has excellent communication skills and passed on good knowledge."

Scott Milne, Kaefer Ltd
CISRS Scaffolding Part 1
June 2023

"Instructor was excellent at providing information for course and was very professional."

Barry McLane, McDonald Scaffolding (Services) Limited
CISRS Scaffold Refresher CPD Course
March 2023

"A fantastic tutor with excellent communication."

Kevin Noble, Scaffolding Youth Apprentice
CISRS Scaffolding Part 2

"Instructor explained information well and managed to answer all queries"

Kyle MacDonald, North East Scotland College
Mobile Aluminum Tower Training
February 2023

"Overall a great course and useful info."

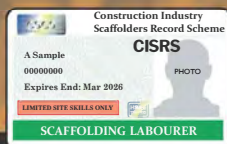
Bryce Fraser, Score Europe Ltd
Working at Heights Awareness
June 2023

CISRS

CONSTRUCTION INDUSTRY
SCAFFOLDERS RECORD SCHEME

HAVE YOU GOT THE RIGHT CARD?

Make sure those carrying out scaffolding operations on your site have completed the relevant training, experience and assessment and are holding the correct card.



Scaffolding Labourer

The holder of this card can only carry out labouring duties, in support of scaffolding operations.

If working off the ground they must do so from a completed, fully boarded and double guard railed section of the scaffold platform.

They must not erect, dismantle or alter scaffold structures in anyway.



Trainee Scaffolder

The holder of this card is currently undergoing CISRS Scaffolder training and assessment.

They are entitled to work as part of a scaffold gang under the direct supervision of a CISRS Scaffolder or Advanced Scaffolder.

The rear of the card will be endorsed with training undertaken to date. Part 1 and 2 training can be undertaken in both tube & fitting and recognised system scaffold products.

Note: An operative is considered a trainee until they have completed Part 1 and 2 training, S/NVQ Level 2 and a CISRS 1 Day Skills Test.



Advanced Scaffolder

The holder of this card has successfully reached Advanced Scaffolder status, this enables them to lead or partake in all types of Basic and Complex scaffolding operations including but not restricted to suspended scaffolds, temporary roofs and support structures. Advanced Scaffolders can attend additional System Product Training (SSPTS) 2 day courses and have these qualifications endorsed on their card. Please see note on Systems Training to ensure that the operative holds the correct system endorsement.

Advanced Scaffolder card holders are required to attend CISRS Scaffolder Refresher/CPD training to renew their cards.

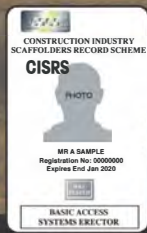


Scaffold Inspection

The holder of the Basic Scaffold Inspection card is qualified to carry out statutory inspections of Basic structures, independent scaffolds, scaffold tower, birdcage scaffolds etc.

The Advanced Scaffold Inspection card allows the holder to carry out statutory inspections on both Basic and Complex structures e.g. suspended scaffolds, temporary roofs etc.

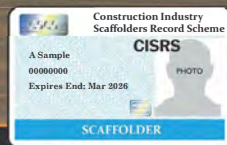
Additional System Inspection courses/ card endorsements are available for a number of scaffold system products.



Basic Access Systems Erector (Base)

This is a card for non-scaffolding operatives who may be required to erect, dismantle or alter simple system scaffold structures.

There are strict limitations on height, type of structure, location and system used. Any tube and fitting scaffold or system structures outside of those covered in the BASE course must be carried out by a CISRS qualified Scaffolder.



Scaffolder

The holder of this card has successfully reached Scaffolder status, this enables them to lead or partake in scaffolding operations covered by their training and assessment, which includes independents, towers, birdcages, fans, gantry & beam work etc.

Scaffolders who have qualified via the tube & fitting route can attend additional System Product Training (SSPTS) 2 day courses and have these qualifications endorsed on their card. Please see note on Systems Training to ensure that the operative holds the correct system endorsement.

Scaffolder card holders are required to attend CISRS Scaffolder Refresher/CPD training to renew their cards.



Scaffolding Manager/ Supervisor

The holder of this card has successfully completed the CISRS 5 Day Management / Supervisors course, the content comparable to SMSTS but is scaffold specific. It covers Health and Safety Legislation, Performance Standards, Basic Employment Rights, Temporary Works Supervision, Supervisory Skills & Commercial Elements.

Systems Training

Systems Scaffold Product Training Scheme (SSPTS) 2-Day courses are available in recognised system scaffold products. Operatives who hold a BASE, Scaffolder or Advanced Scaffolder card are eligible to attend these courses as are Trainee cardholders who have completed at least Part 1 training. CISRS cards are endorsed with SSPTS training undertaken. Further details about System Training can be found on the CISRS website.



For further information on CISRS course content, duration, life span of cards, CPD/renewal requirements, plus details of all accredited CISRS training centres visit www.cisrs.org.uk

To check validity of cards call: 0300 999 1177, email: enquiries@cisrs.org.uk or visit: www.cardchecker.nocn.org



SCAFFOLDING TRAINING

CISRS OPERATIVE TRAINING SCHEME (COTS)

Duration	Cost per Delegate	Venue
1 Day	£168+VAT	Clinterty Training Centre

Availability Visit our website for the latest available dates. To enquire about additional dates or to set up a course specifically for your company, please contact the [ASET Customer Service Team](#).

About this Course

Target Audience This course is for personnel who are new to scaffolding. Existing CISRS Scaffolding Labourer (green) cardholders also need to take this course to renew their card every 5 years in accordance with CISRS scheme requirements.

Prerequisites Delegates are required to have passed a CITB Health, Safety and Environment (HS&E) Test within the previous 2 years before the course start date or hold an accepted exemption.

Practical Content 20% **Theoretical Content** 80%

Key Learning Outcomes

- Gain an appreciation of general site safety, types of materials and safe methods of manual handling used in scaffolding.
- Understanding of scaffold labouring duties.

Course Content

- General responsibilities
- Basic scaffolding terminology (components and application)
- Servicing of equipment (tube, fittings, boards etc.)
- Boards and stock – quality control
- Health, welfare, hygiene and housekeeping
- Electrical safety
- Fire prevention and control
- Noise and vibration
- Working at height
- Accident prevention and reporting
- Slips, trips and falls
- Personal Protective Equipment (PPE)
- Transport safety on-site
- Equipment and tools
- Manual handling (including loading and unloading)
- Lifting equipment using rope and wheel

Assessment Delegates will undertake a multiple-choice examination paper and practical exercises to demonstrate they have achieved the key learning outcomes detailed above.

Certification

 CISRS Scaffolding Operative Training Scheme (COTS) Certificate.

PPE Requirements PPE not required.

Further Information Upon completion delegates will be eligible to apply for the relevant CISRS card (CISRS Scaffolding Labourer or CISRS Scaffolding Trainee). ASET will apply for this on your behalf on receipt of evidence of having passed the CITB HS&E Test or accepted exemption.

SCAFFOLDING TRAINING

CISRS SCAFFOLDING PART 1 – TUBE AND FITTING

Duration	Cost per Delegate	Venue
10 Days	£1,280+VAT	Clinterty Training Centre

Availability Visit our website for the latest available dates. To enquire about additional dates or to set up a course specifically for your company, please contact the [ASET Customer Service Team](#).

About this Course

Target Audience This course is for personnel who have undertaken the CISRS COTS course or CISRS Scaffolding Labourer card for at least 3 months.

Prerequisites Delegates must have a COTS certificate or a current CISRS Trainee Scaffolder/Labourer card held for at least 3 months prior to the course start date.

Practical Content 70% **Theoretical Content** 30%

Key Learning Outcomes

- Develop knowledge in the use of tube and fitting scaffold.
- Gain an understanding of the core skills of scaffolding, including how to safely erect, alter and dismantle basic scaffolding structures.

Course Content

- Safely and correctly erect independent and putlog scaffolds with returns, towers and birdcage scaffolds in tube and fitting
- Observe regulations governing the safe erection, inspection and dismantling of scaffolds and work methods to be adopted
- Determine the material requirements for independents and putlog with returns, towers and birdcage scaffolds in tube and fitting
- Lay out materials, set out the scaffolds and overcome obstacles to erect the scaffold safely
- Ensure that scaffolds are constructed to statutory regulations following the safe systems of work set out in Safety Guidance Note 4 (SG4)
- Interpret simple drawings
- Understand the basics of tie testing
- Make alterations to scaffolds (e.g. dropping lift height on independent)

Assessment Delegates will undertake a multiple-choice examination paper and practical exercises to demonstrate they have achieved the key learning outcomes detailed above.

Certification



CISRS Scaffolding Part 1 – Tube and Fitting Certificate

PPE Requirements Safety footwear, coveralls, safety glasses, gloves, hi-vis and tools.

SCAFFOLDING TRAINING

CISRS SCAFFOLDING PART 2 – TUBE FITTING

Duration	Cost per Delegate	Venue
10 Days	£1,520+VAT (includes portfolio build)	Clinterty Training Centre

Availability Visit our website for the latest available dates. To enquire about additional dates or to set up a course specifically for your company, please contact the [ASET Customer Service Team](#).

About this Course

Target Audience Personnel who have at least six months on-site experience since successfully completing the Scaffolding Part 1 – Tube and Fitting course.

Prerequisites Delegates are required to have at least six months site experience since passing the CISRS Scaffolding Part 1 – Tube & Fitting course.

Delegates should have the ability to climb up and down ladders safely and an ability to handle scaffold boards and steel scaffold poles.


Practical Content 70% **Theoretical Content** 30%

Key Learning Outcomes Develop further knowledge, skills and understanding of working as part of a team to safely erect, alter and dismantle scaffolding structures.

Course Content

- Correctly and safely erect truss-out, pavement gantry, loading bay, splay, protective fan, prefabricated beams and roof scaffolds.
- Observe regulations governing the safe erection, inspection and dismantling of scaffolds and work methods to be adopted.
- Determine the truss-out, pavement gantry, loading bay, splay, protective fan, use of prefabricated beams and roof scaffolds.
- Construct scaffolds to statutory regulations TG20:21 and BS EN12811-1, and follow the safe systems of work set out in the Safety Guidance Note 4 (SG4).
- Practical setting of anchors for tie testing.
- NVQ/SVQ portfolio building and practical assessment.

Assessment Each delegate will undertake a multiple-choice examination paper and practical exercises to demonstrate they have achieved the key learning outcomes detailed above.

Certification  CISRS Scaffolding Part 2 – Tube and Fitting Certificate. NOCN Level 2 NVQ certificate will be awarded on successful completion and verification of portfolio.

PPE Requirements Safety footwear, coveralls, safety glasses, gloves, hi-vis and tools.

SCAFFOLDING TRAINING

LEVEL 2 CISRS SKILLS TEST – TUBE AND FITTING

Duration	Cost per Delegate	Venue
1 Day	£485+VAT	Clinterty Training Centre

Availability Visit our website for the latest available dates. To enquire about additional dates or to set up a course specifically for your company, please contact the [ASET Customer Service Team](#).

About this Course

Target Audience Scaffolders who have successfully completed the Part 1 and Part 2 courses, have at least six months' scaffolding experience since passing part 2 and hold an SVQ/NVQ Level 2 certificate.

Prerequisites Delegates must have completed the Scaffolding Part 1 and Part 2 Tube and Fitting courses and have at least six month' scaffolding experience since passing Part and hold and S/NVQ level 2. Delegates are required to have passed a CITB Health, Safety and Environment (HS&E) Test within the previous 2 years before the course start date or hold an accepted exemption.


Practical Content 100% **Theoretical Content** 0%

Key Learning Outcomes The assessment and verification of knowledge of the scaffolding skills learned on the CISRS Part 1 and Part 2 courses.

Course Content

- Basic product information and manufacturer's instructions
- Legal overview – health and safety
- British and European standards
- Overview of product accreditation and testing schemes
- Guidance and industry standards
- Component range
- Basic system(s) of work
- Bracing requirements
- Ties, stability and tie patterns
- Loading and duties
- Access towers
- Independent tied scaffolds including returns and hop-ups
- Birdcage access scaffolds
- Loading towers
- Methods of access an egress including stairways

Assessment This course will assess and verify delegate's knowledge of the scaffolding skills learned on the CISRS Part 1 and Part 2 courses. The assessment will be based on a delegates portfolio of evidence of their scaffolding career to date.

Certification  Upon successfully completing the assessment you will be eligible to apply for your CISRS Scaffolder card.

PPE Requirements Safety footwear, coveralls, safety glasses, gloves, hi-vis and tools.

SCAFFOLDING TRAINING

CISRS SCAFFOLDING INSPECTION TRAINING SCHEME (SITS)

Duration	Cost per Delegate	Venue
3 Days	£668+VAT	Clinterty Training Centre

Availability Visit our website for the latest available dates. To enquire about additional dates or to set up a course specifically for your company, please contact the [ASET Customer Service Team](#).

About this Course

Target Audience CISRS scaffold card holders or for inspection card renewals and also those responsible for inspecting and checking basic scaffolds for safe use, signing certificates and registers in accordance with statutory regulations.

Prerequisites Delegates are required to hold one of the following:
Current CISRS Scaffold card, CISRS Advanced Scaffold card or CISRS Scaffolding Supervisor card current or expired CISRS Basic Scaffold Inspection card and are attending the course in order to renew their card.

Delegates who do not hold an eligible CISRS card will be required to submit a CV and/ or certificates, together with a letter from an employer confirming their awareness and experience of scaffolding structures gained via their role within industry and confirmation that the delegate has a minimum of 2 years' experience in this role.

Delegates are required to have passed a CITB Health, Safety and Environment (HS&E) Test within the previous 2 years before the course start date or hold an accepted exemption.

Practical Content 20% **Theoretical Content** 80%


Key Learning Outcomes Understanding of the different scaffolding components, forms of construction and inspection procedures in compliance with current scaffolding legislation and Codes of Practice.

Course Content

- Regulations and approved Codes of Practice
- Scaffolding terminology
- Tubes, boards and fittings
- Ladders
- Gin wheels and ropes
- Scaffold ties
- Construction regulations and recommendations of basic scaffolds to include:
 - *Independent tied scaffold
 - *Putlog scaffold
 - *Birdcage scaffold
 - *Static tower
 - *Basic independent tied scaffold
 - *Scaffolds with prefabricated beams
 - *Protective fans, pavement gantry
 - *Loading bay, *Roof saddle scaffold
 - *Splay scaffold roof edge protection
 - *Practical inspection
 - *Reports.

Assessment Delegates will undertake a multiple-choice examination paper and practical exercises to demonstrate they have achieved the key learning outcomes detailed above.

Certification



CISRS Scaffolding Inspection Training Scheme (SITS) Certificate and CISRS Scaffolding Inspection card.

PPE Requirements Safety footwear and hard hat.

SCAFFOLDING TRAINING

CISRS LEVEL 3 ADVANCED SCAFFOLDING

Duration	Cost per Delegate	Venue
10 Days	£1,663+VAT (includes portfolio build)	Clinterty Training Centre

Availability Visit our website for the latest available dates. To enquire about additional dates or to set up a course specifically for your company, please contact the [ASET Customer Service Team](#).

About this Course

Target Audience This course is for people who hold the CISRS Scaffolder Card.

Prerequisites Delegates are required to have held a CISRS Scaffolder card for at least 12 months prior to the course start date.

Practical Content 60% **Theoretical Content** 40%

Key Learning Outcomes Gain the ability to safely erect, alter and dismantle a range of complex scaffolding structures while working as part of a team.

Course Content

- Correctly and safely erect cantilever drop, two-way shore, dead shore, staircase, ramp, tubular drop and temporary roof scaffolds in tube and fitting
- Observe regulations governing the safe erection, inspection and dismantling of these scaffolds and the work methods to be adopted
- Carry out procedures for producing, interpreting and using risk assessments and method statements
- Use scale rules and scale drawings
- Determine the material requirements for cantilever drop, two-way shore, dead shore, staircase, ramp, tubular drop and temporary roof scaffolds in tube and fitting
- Lay out materials, interpret design drawings, set out scaffolds and overcome obstacles to erect the scaffold safely
- Construct scaffolds to statutory regulations, TG20:21 and BS EN12811-1, and follow the safe systems of work set out in the Safety Guidance Note 4 (SG4)
- Practical setting of anchors and tie testing
- NVQ/SVQ portfolio building

Assessment Delegates will undertake a multiple-choice examination paper and practical exercises to demonstrate they have achieved the key learning outcomes detailed above.

Certification  CISRS Advanced Scaffolding Certificate. NOCN Level 3 NVQ certificate will be awarded on successful completion and verification of portfolio.

PPE Requirements Safety footwear, coveralls, safety glasses, gloves, hi-vis and tools.

SCAFFOLDING TRAINING

LEVEL 3 CISRS ADVANCED SKILLS TEST

Duration	Cost per Delegate	Venue
2 Days	£592+VAT	Clinterty Training Centre

Availability Visit our website for the latest available dates. To enquire about additional dates or to set up a course specifically for your company, please contact the [ASET Customer Service Team](#).

About this Course

Target Audience This course is suitable for scaffolders who have worked on site for at least six months since passing the Advanced Scaffolding course and hold an SVQ/NVQ Level 3 certificate.

Prerequisites Delegates are required to have at least six months' site experience since passing the Advanced Scaffolding course and hold an SVQ/NVQ Level 3 certificate.

Delegates are required to have passed a CITB Health, Safety and Environment (HS&E) Test within the previous 2 years before the course start date or hold an accepted exemption.


Practical Content 100% **Theoretical Content** 0%

Key Learning Outcomes This assessment is designed to assess your scaffolding knowledge and expertise.

Course Content This Practical Skills Assessment course will assess your ability to:

- Interpret instructions and information
- Produce materials lists and method statements
- Select and check components
- Erect and dismantle a scaffold
- Use risk assessments and method statements

Assessment The assessment will be based on your portfolio of evidence of your scaffolding career to date

Certification  CISRS Scaffolding Assessment Advanced Level 3 Certificate Upon completion delegates will be eligible to apply for the CISRS Advanced Scaffolders card. ASET will apply for this on your behalf on receipt of evidence of having passed the CITB HS&E Test or accepted exemption (see PPE Requirements below).

PPE Requirements Safety footwear, coveralls, safety glasses, gloves, hi-vis and tools.

SCAFFOLDING TRAINING

CISRS SCAFFOLDER REFRESHER CPD COURSE

Duration	Cost per Delegate	Venue
2 Days	£393+VAT	Clinterty Training Centre

Availability Visit our website for the latest available dates. To enquire about additional dates or to set up a course specifically for your company, please contact the [ASET Customer Service Team](#).

About this Course

Target Audience This course is for people looking to renew a CISRS Scaffolder card (blue) and a CISRS Advanced Scaffolder card (gold).


Prerequisites Delegates are required to have a copy of CISRS Scaffolder cards (blue and gold). Card can be up to 6 months past expiry subject to employer agreement.

Practical Content 10% **Theoretical Content** 90%

Key Learning Outcomes Update knowledge on current scaffolding industry standards in order to maintain high standards of safety in the scaffolding industry.

- Course Content**
- General site health and safety
 - Good environmental practice
 - Scaffold inspection
 - Mobile Access Tower Training for Scaffolders (MATs)
 - Scaffold good practice
 - Practical tie testing
 - Mental health awareness
 - Temporary Works responsibilities
 - Scaffolding Health Safety & Behavioural Test

Assessment Delegates will undertake a multiple-choice examination paper and practical exercises to demonstrate they have achieved the key learning outcomes detailed above.

Certification  All delegates attending the course will have their renewed card endorsed with CPD/Refresher.

PPE Requirements Safety footwear, hard hat and gloves.

Further Information In addition, delegates have the opportunity to add the following endorsements to their cards on successful completion of the practical elements and tests associated with each module:

- Scaffold Inspection Module - Delegates who hold a separate Inspection Card will no longer be required to renew this separate card.
- Mobile Access Tower Training for Scaffolders (MATs) Module
- Scaffolding Health Safety & Behavioural Test - Delegates who fail this test will be required to pass a CITB Health Safety and Environment Test or hold a recognised exemption, in order to apply for their new card.

SCAFFOLDING TRAINING

MOBILE ALUMINIUM TOWER TRAINING

Duration	Cost per Delegate	Venue
1 Day	£179+VAT	Clinterty Training Centre

Availability Visit our website for the latest available dates. To enquire about additional dates or to set up a course specifically for your company, please contact the [ASET Customer Service Team](#).

About this Course

Target Audience Those who require the knowledge to erect and dismantle mobile aluminum towers safely.

Prerequisites There are no prerequisites for this training.

Practical Content 50% **Theoretical Content** 50%

Key Learning Outcomes Identify and understand the use of the different components within Mobile towers. Identify the hazards within the erection, use of and dismantling processes.

Course Content

- Working at height safely
- Standards affecting the use of Aluminium Towers
- Determining when and if it is safe to erect and use Aluminium Tower
- Where to find safety information
- Safe erection and dismantling procedures
- Moving towers
- Accessing the platform safely
- Components used in Aluminium Towers
- Hazard identification
- Manufacturing Assembly Guide
- Ensuring personal safety.

This ASET certified course is based on the PASMA (Prefabricated Access Suppliers & Manufacturers Association). Operators Code of Practice 2000, BS 1139 part 3 (HD 1004), related legislation and the relevant manufacturers assembly guide.

Assessment Delegates will undertake a multiple-choice examination paper and practical exercises to demonstrate they have achieved the key learning outcomes detailed above.

Certification  ASET International Energy Training Academy Certificate.

PPE Requirements Safety footwear, hard hat and gloves.



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