

**INDUSTRY  
TRAINING AT**

**TTE**

# **TRAIN WITH INDUSTRY EXPERTS**




**INDUSTRY TRAINING GUIDE**

**> MECHANICAL  
> ELECTRICAL**

**> PROCESS  
> INSTRUMENTATION**

**> RENEWABLES  
> HEALTH AND SAFETY**



At TTE, we work hand-in-hand with industry leaders to deliver training that equips your workforce with the essential skills and qualifications today's employers demand.

We proudly partner with businesses across the North East and Yorkshire, helping to boost performance through our high-quality, results-focused programmes.

From entry level to advanced, our courses are tailored to suit all experience levels. If you can't see the course you need, just ask our team! Whether you require one-on-one support or group training, we'll work to understand your business goals and customise a solution to ensure your training needs are met.

Train in our state-of-the-art facilities at TTE, where innovation, expertise and hands-on learning come together to drive your team's success.



# ELECTRICAL



The UK's electrical engineering industry is a vibrant and essential sector, powering modern life through the design, development, installation and maintenance of electrical systems. Sign up to an innovative study programme at TTE, which will equip you with practical and theoretical skills in electrical maintenance

and construction, including electrical safety, testing and inspection, cable types, programmable logic controllers (PLCs) and more. Our expert tutors, trained to the latest industry standards, ensuring you gain the knowledge and skills needed to advance or begin a new career.

Course	Description
<b>18th Edition</b>	A training programme that teaches the regulations for electrical installations in the UK. The course covers the design, installation, inspection and testing of electrical systems for both commercial and domestic buildings. The course is also known as the Level 3 Award in the Requirements for Electrical Installations BS 7671:2018.
<b>2391 Testing and Inspecting</b>	The course covers both initial verification and periodic inspection, enhancing your understanding of legal requirements and practical principles. Enhanced Testing Expertise: You'll gain knowledge in testing and inspecting existing electrical installations (periodic I&T).
<b>Electrical PAT Testing</b>	Delegates will learn about electrical equipment maintenance, electrical units of measurement and how to reduce the risk of electric shock. They also learn how to inspect and test electrical equipment, and how to record and document their findings.
<b>Electrical Engineering for Non-Electrical Engineers</b>	The course is aimed at all personnel who require a basic understanding of electrical systems. The aim of the course is to provide the delegate with a basic understanding of electrical systems and the associated electrical skills. By adopting their safe electrical knowledge, they could aid a craft team and carry out defined tasks safely.

**“The course has been brilliant. It’s a great way to keep up-to-date as an electrician. My tutor was really helpful - he lets us crack on but is always willing to answer any questions we may have in the class. I’d definitely recommend the course if you’re looking to ensure your knowledge and skills remain current.”**

Alex Golding - 18th Edition

# HEALTH AND SAFETY



The shift towards a proactive health and safety culture is vital – not just to meet compliance requirements but to genuinely protect and empower employees. Early hazard identification and risk management help prevent accidents before they happen, creating a safer, more productive working environment.

Building a strong safety culture means consistent training, clear communication, and making sure everyone – regardless of their role – feels responsible for maintaining a safe workspace.

When employees are actively engaged, they're more likely to report hazards, follow procedures, and even contribute ideas for improvements.

We offer a range of highly regarded qualifications to help with health, safety and risk management. Our courses break down UK Health and Safety legislation in a simple way, making it easier for people to stay compliant and create a safer workplace.

Course	Description
<b>IOSH Managing Safely</b>	The course is suitable for managers and supervisors in any sector and any organisation. The purpose of the course is to gain up-to-date knowledge and know the practical actions that are required to handle health and safety within their teams.
<b>IOSH Working Safely</b>	Focusing on why health and safety is important, and how you can make a real difference to the wellbeing of yourself and others through changing your behaviour. Implementing best practice rather than legislation and is suitable for anyone from around the world. The course is a 100% match to the Health and Safety Executive's 'Passport' syllabus.
<b>NEBOSH Certificate Level 3</b>	The National General Certificate in Occupational Health and Safety is a nationally recognised and essential qualification for anyone currently involved in or pursuing a career in health and safety. The certificate is accepted by the Institution of Occupational Safety and Health and is highly recommended for health and safety professionals working across all organisations and sectors.
<b>NEBOSH Diploma Level 6</b>	The NEBOSH National Diploma is the flagship NEBOSH award and is the first UK vocational qualification to be developed specifically for health and safety professionals. You must have a Level 3 NEBOSH Certificate.
<b>CCNSG Safety Passport</b>	The CCNSG Safety Passport is often a prerequisite for working on site in industries such as oil, gas, chemical, manufacturing, nuclear and energy sectors. The aim of the scheme is to ensure a basic knowledge of health and safety for all site personnel to enable them, after appropriate site induction, to work on site more safely with lower risk to themselves and others. Block booking available for eight or more delegates.
<b>Principles of Manual Handling</b>	The course covers the key principles and techniques involved in manual handling, the biology behind this and how to reduce risk.

Course	Description
<b>CCNSG Safety Passport Refresher</b>	The refresher course is designed for all personnel who are in possession of a valid safety passport. The course will bring the candidate up to date with new legislation. Block booking available for eight or more delegates.
<b>Principles of COSHH</b>	The qualification will prepare employees to contribute to the safer use of hazardous substances in cooperation with their managers and supervisors. The aim of the course is to provide delegates with the knowledge and understanding required for safe handling of hazardous substances.
<b>Risk Assessment</b>	The course equips delegates with the ability to actively improve workplace safety. They will learn how to identify hazards and contribute to formal risk assessments, ensuring a safe work environment. By the end, delegates will be familiar with legal requirements, key concepts like hazards and control measures, and the five-step risk assessment process. Delegates will also understand the hierarchy of controls and the importance of keeping risk assessment records up-to-date.
<b>Forklift Truck Operations FLT Refresher</b>	For those who would like to work in the logistics, warehousing or distribution industry, responsible for forklift truck operations, including: the loading and unloading of goods in a warehousing and storage environment, the transfer and positioning of loads for driving and manoeuvring in compliance with health and safety requirements.
<b>Cherry Picker and Scissor Lift</b>	Mobile Elevated Work Platform (MEWP) training provides the skills and knowledge to prepare and safely operate various types of MEWPs including a scissor lift and cherry picker.
<b>Paediatric First Aid</b>	The course is ideal for anyone responsible for the care of children in a professional setting, such as nursery staff, teaching assistants or various roles in the care industry. Delegates will develop the knowledge and practical skills required to respond confidently and effectively in emergency situations involving children.
<b>Emergency First Aid at Work</b>	The course is designed for individuals who wish to act as an emergency first aider in their workplace. Upon successful completion of this qualification, candidates will be equipped with the essential skills needed to give safe, prompt and effective first aid in emergency situations.
<b>First Aid at Work</b>	The First Aid at Work qualification is specifically designed for individuals who wish to act as a first aider in their workplace. Candidates will learn how to manage a range of injuries and illnesses that could occur at work and will be equipped with the essential skills needed to give emergency first aid.
<b>Permit to Work</b>	The course is essential for all personnel required to issue permits to work. The course will introduce delegates to the operation of Permit to Work systems. The learning aim for this course is to understand permit to work systems and your responsibilities.
<b>Confined Space Low / Medium / High Risk</b>	These courses are designed to meet the requirements for working safely in confined spaces at low, medium and high risk in line with the Confined Space Regulations 1997, along with other key legislation.

# INSTRUMENTATION



Instrumentation is crucial to all industries to allow a safe and precise operation of process.

The key roles of instrumentation are to:

- Provide fully automated process control to set limits.
- Ensure the safety of the process and employees.
- Quality assurance and efficiency.
- Data collection and analysis.

TTE offers a hands-on programme designed to provide both practical and theoretical knowledge of the essential skills

required for working on instrumentation control and measurement systems. Our course focuses on calibration, testing and fault finding of instrumentation used to measure the four main process variables: pressure, temperature, flow and level.

Delegates will gain hands-on experience in real-case scenarios. They will work with instrumentation within the calibration workshop and simulation plants, which will assist in increasing productivity and minimising downtime.

Course	Description
<b>Instrument for Non-Instrument Personnel</b>	<p>The aim of the course is to give non-instrument personnel a practical understanding of instrumentation. At the end of the course, they will be able to recognise and understand:</p> <ul style="list-style-type: none"><li>• The operation of various pressure elements/instruments.</li><li>• The operation of various level measurement techniques/instruments.</li><li>• The operation of various flow and temperature measurement techniques.</li><li>• The operation of various control valves, trims and their uses.</li><li>• Control terminology.</li></ul>



# MECHANICAL



The mechanical engineering industry is a vital and dynamic sector in the UK, integral to manufacturing, automotive, aerospace, energy and construction. TTE offers exceptional mechanical engineering programmes, equipping delegates with

practical and theoretical skills in areas such as bench fitting, workshop safety, gears, bearings, pump maintenance and more. Our expert tutors ensure delegates gain the knowledge needed to excel in their career.

Course	Description
<b>Mechanical for Non-Mechanical Engineers</b>	The aim of this course is to give non-mechanical personnel an overview and understanding of the various components, construction and operation of mechanical systems, including safety considerations and statutory requirements.
<b>Abrasive Wheels</b>	The course has been designed to give candidates the knowledge and understanding required to change, mount and dress abrasive wheels. Delegates will understand the safe use, handling, storage and mounting of all types and classes of abrasive wheels (pedestal and hand-held grinders).
<b>Hydraulics</b>	The course in hydraulics provides a comprehensive understanding of hydraulic systems, including their principles, components and applications, with a focus on fluid power technology. The course includes both theoretical knowledge and practical training, covering topics such as hydraulic schematics, component selection and system maintenance.
<b>Pneumatics</b>	Providing training on the principles and practical application of compressed air to drive mechanical systems. The course covers basic theory, pneumatic components, circuit design and maintenance. It's highly valuable for individuals seeking careers in manufacturing, maintenance or other industries where pneumatic systems are used.
<b>Bearings, Bushes and Lubrication</b>	Key areas of study include: understanding bearing fundamentals, bearing types and applications, bearing failure analysis and lubrication knowledge and application.
<b>Disconnection/ Reconnection of AC Motors</b>	The course aims to give non-electrical personnel the electrical skills to carry out some electrical tasks, mainly disconnection and reconnection of motors.

# PROCESS



The process and control engineering industry is vital to manufacturing, energy, pharmaceuticals and automation, focusing on designing, implementing and optimising systems for efficiency, safety and productivity.

TTE offers recognised training courses in process and control engineering, providing hands-on experience with state-of-the-art equipment and expert instruction. Our innovative programmes ensure delegates gain practical skills and a recognised academic qualifications.

Course	Description
<b>0610 Process Technology Level 2</b>	The aim of this course is to provide delegates with the skills and knowledge necessary to gain the Level 2 qualification for career progression within the process technology industry.
<b>0610 Process Technology Level 3</b>	<p>The Level 3 qualification is aimed at candidates who are working in process technology and have a great deal of technical skills and knowledge.</p> <p>Ideally delegates will work with minimum supervision and have a good record of safety, fault correction and ensuring work meets the required standard.</p>
<b>Safe Isolations</b>	<p>Delegates will gain an understanding and be able to demonstrate competence in process isolation procedures based on OPITO POH Level 2 units:</p> <p>PT3.4.1 Prepare plant and equipment for maintenance. PT3.4.2 Isolate plant and equipment. PT3.4.3 Deisolate plant and equipment.</p>





# RENEWABLES



The UK wind turbine industry alone, needs to find 32,000 technicians by 2028 according to October 2024 figures released by Global Wind Organisation (GWO). There is no better time, therefore, to enrol on the GWO Basic Technical Training course with TTE. This involves bolt tensioning, mechanical, hydraulic, electrical and

electronic skills in an action-packed and structured course over four days. Most of this time is spent in practical workshop activity with minimal classroom time.

The course is fully-certificated and is a prerequisite for anyone who wishes to work on wind turbines.

Course	Description
<b>Global Wind Organisation (GWO) Basic Technical Training</b>	<p>A wind turbine services technician is someone who is specially trained to prevent wind turbines from malfunctioning or stopping completely.</p> <p>This Level 2 course provides learners with the industry-recognised Global Wind Organisation (GWO) qualification. The Basic Technical Training (BTT) is required for working in the renewable energy sector as a wind turbine technician.</p>



## Did you know?

**TTE is one of the UK’s leading technical training providers in this field. With specialist technical equipment, facilities and expertise, TTE boast strong links with over 200 companies operating in the oil and gas, manufacturing, engineering and petrochemical industries.**



# **TTE WELCOMES DELEGATES FROM ABU DHABI FOR INTERNATIONAL SKILLS TRAINING**

Middlesbrough College Group welcomed five delegates from Abu Dhabi as part of a comprehensive skills training programme aimed at enhancing global industry expertise.

This bespoke programme, delivered by TTE International – a wholly owned subsidiary of Middlesbrough College Group – underscores the College's commitment to fostering international collaboration in vocational education.

The delegates, all recent graduates in mechanical disciplines, participated in a four-week intensive training programme designed to develop practical skills critical to their roles. This training took place at the College's TTE 2 STEM Centre under the guidance of industry experts.

John Cooke, Associate Director TTE at Middlesbrough College, said: "We are delighted to welcome these delegates from Abu Dhabi and are proud to play a role in their professional development. This collaboration highlights the importance of international partnerships in skills development, and we look forward to seeing the positive impact this training will have on both the delegates and their organisations."

The programme began on 28th October 2024, with the candidates engaged in Block 1, which focused on hydraulics and pneumatics, followed by in-depth training in pumps and valves, offering candidates hands-on experience with cutting-edge technologies.

The students plan to return to the College to complete Block 2, which covers Non-destructive Testing (NDT) and Weld Inspection.

This unique course, commissioned on behalf of Emirates Global Aluminium (EGA) – the candidates' sponsor – was tailored to bridge the gap between academic theory and practical application, essential for their professional growth. EGA fully supported the programme, covering all tuition fees to ensure that the graduates were equipped with advanced skills to meet the demands of their industry.

The programme's success underscores Middlesbrough College Group's reputation as a leader in global vocational education, drawing international students seeking practical, industry-relevant training.



**INDUSTRY  
TRAINING AT**



**Tel: 01642 46 22 66**  
**Email: [info@tte.co.uk](mailto:info@tte.co.uk)**

**TTE**  
**Middlesbrough College Campus**  
**Middlesbrough TS2 1AD**