



LEARNING ALLIANCE

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WELCOME!

Learning Alliance School of Continuing Education, and the American Pipeline Contractors Association thank you for choosing us as your Education and Training Provider.

This guide is for Employers who want Apprenticeship as part of their company's workforce development culture and for others who are considering a profession through Career and Technical Education. The guide provides familiarization with the nature of the program, its values and requirements. This is especially important when the program involves training for a lifelong occupation.

The increase in building infrastructure at the present time demands a great number of highly skilled workforce. Current Construction and Renewable Energy methods used to build infrastructures require the highest degree of proficiency, knowledge, and workmanship. The successful Employee must have both the "know-how" and the "know-why" skills of the trade to succeed in their rewarding career field.

Over the years industries have changed; technological advances have created improvements, new ideas, and processes. Today, the work involved in all the fields is so closely related to technical and theoretical concepts that only a trained person can do the job. For many years, Learning Alliance has provided individuals with the knowledge and skills needed for employees to be safe and successfully complete projects.

The Learning Alliance School of Continuing Education (LASCE) Apprenticeship training programs have been developed to provide companies with quality educational and practical skills needed to build an organization's workforce. Successfully completing an apprenticeship program results in a highly competent individual with the skills and credentials employers can rely on. This achievement serves as a crucial first step on the career ladder, potentially leading to a leadership role.

Thank you again for allowing LASCE and APCA to be your Education and Training Partner and help employees climb the ladder of success!

03

PIPEFITTER APPRENTICESHIP
CURRICULUM

HEAVY EQUIPMENT
OPERATIONS

17

25

CONSTRUCTION CRAFT
LABORER

REGISTERED APPRENTICESHIP
PROVEN, ROI!

33

37

ARE YOU INTERESTED
IN JOINING US?

TABLE OF CONTENT

PIPEFITTER APPRENTICESHIP CURRICULUM





CORE 1ST YEAR TOTAL HOURS: 155



Build Your Future in Construction (Elective)

(Module ID 00100) Construction is an exciting, well-paying industry that offers an abundance of career opportunities. With a growing need for individuals who are ready to learn while getting paid, it provides a great fit for people of all backgrounds, skills, and strengths. Carpenter, pipefitter, welder, electrician, and crane operator are just a few of the construction professions in high demand. This module will help you understand the state of the industry, the job opportunities that currently exist, and the training options that will lead you on a path to your new construction career.

Basic Safety (Construction Site Safety Orientation)

(Module ID 00101) Work at construction and industrial job sites can be hazardous. Most job-site incidents are caused by at-risk behavior, poor planning, lack of training, or failure to recognize the hazards. To help prevent incidents, every company must have a proactive safety program. Safety must be incorporated into all phases of the job and involve employees at every level, including management.

Introduction to Construction Math

(Module ID 00102) Craft professionals rely on math to do their jobs accurately and efficiently. Plumbers calculate pipe lengths, plan drain slopes, and interpret dimensioned plans. Carpenters meet code requirements by using math to frame walls and ceilings properly. HVAC professionals develop ductwork and calculate airflow with practical geometry. Whichever craft lies in your future, math will play a role in it. This module reviews the math that you will need and sharpens the skills that you will be using in the exciting modules ahead.

Introduction to Hand Tools

(Module ID 00103) Every profession has its tools. A surgeon uses a scalpel, an instructor uses a whiteboard, and an accountant uses a calculator. The construction crafts require a broad array of hand tools. Even if you are familiar with some of the tools, all craftworkers need to learn how to select, maintain, and use them safely. A quality hand tool may cost more up front, but if it is properly used and maintained, it will last for years. A true craft professional invests wisely in hand tools, and uses, maintains, and stores them with the same wisdom.

Introduction to Power Tools

(Module ID 00104) Power tools play an important role in the construction industry. Thousands of construction workers across the world use power tools every day to make holes, cut different types of materials, smooth rough surfaces, and shape a variety of products. Regardless of their specialization, all construction workers eventually use power tools on their job. This module provides an overview of the common types of power tools and how they function. It also describes the proper techniques required to ensure their safe and efficient operation.

Introduction to Construction Drawings

(Module ID 00105) Various types of construction drawings are used to represent actual components of a building project. The drawings provide specific information about the locations of the parts of a structure, the types of materials to be used, and the correct layout of the building. Knowing the purposes of the different types of drawings and interpreting the drawings correctly are important skills for anyone who works in the construction trades. This module introduces common types of construction drawings, their basic components, standard drawing elements, and measurement tools that are typically used when working with construction drawings.

Introduction to Basic Rigging (Elective)

(Module ID 00106) A common activity at nearly every construction site is the movement of material and equipment from one place to another using various types of lifting gear. The procedures involved in performing this task are known as rigging. Not every worker will participate in rigging operations, but nearly all will be exposed to it at one time or another. This module provides an overview of the various types of rigging equipment, common hitches used during a rigging operation, and the related Emergency Stop hand signal.

Basic Communication Skills

(Module ID 00107) The construction professional communicates constantly. The ability to communicate skillfully will help to make you a better worker and a more effective leader. This module provides guidance in listening to understand and speaking with clarity. It explains how to use and understand written materials, and it also provides techniques and guidelines that will help you to improve your writing skills.



Basic Employability Skills

(Module ID 00108) Becoming gainfully employed in the construction industry takes more preparation than simply filling out a job application. It is essential to understand how the construction industry and potential employers operate. Your trade skills are extremely important, but all employers are also looking for those who are eager to advance and demonstrate positive personal characteristics. This module discusses the skills needed to pursue employment successfully.

Introduction to Materials Handling

(Module ID 00109) Lifting, stacking, transporting, and unloading materials such as brick, pipe, and various supplies are routine tasks on a job site. Whether performing these tasks manually or with the aid of specialized equipment, workers must follow basic safety guidelines to keep themselves and their co-workers safe. This module provides guidelines for using the appropriate PPE for the material being handled and using proper procedures and techniques to carry out the job.

PIPEFITTER 1ST YEAR

MODULES

Orientation to the Pipefitting Craft (5 Hours)

(Module ID 08101) Provides an overview of work performed by the pipefitter, as well as the responsibilities, career opportunities, safety principles associated with the pipefitting trade, and the types of pipes and tools pipefitters will encounter.

Pipefitting Hand Tools (20 Hours)

(Module ID 08102) Covers hand tool safety as well as procedures for selecting, inspecting, using, and maintaining hand tools used by pipefitters. Introduces the most common hand tools used in pipefitting, including pipe wrenches, pipe stands, pipe vises, levels, pipe fabrication tools, pipe bending tools, and pipe joining tools.

Pipefitting Power Tools (15 Hours)

(Module ID 08103) Covers the safe operation of power tools used to cut, grind, thread, and shape all types of materials, and includes procedures for selecting, inspecting, using, and maintaining power tools used by pipefitters. Provides guidelines for using electrical and pneumatic tools, including pipe threading machines.

Oxyfuel Cutting (17.5 Hours)

(Module ID 29102) Explains the safety requirements for oxyfuel cutting. Identifies oxyfuel cutting equipment and setup requirements. Explains how to light, adjust, and shut down oxyfuel equipment. Trainees will perform cutting techniques that include straight line, piercing, bevels, washing, and gouging.



Ladders and Scaffolds (12.5 Hours)

(Module ID 08105) Describes hazards and safety procedures governing the use of stepladders, extension ladders, fixed scaffolds, and rolling scaffolds. Includes general procedures for scaffold assembly and use.

Motorized Equipment One (10 Hours)

(Module ID 08106) Explains the safety factors, operator maintenance, and operating procedures associated with motorized equipment used on job sites. Covers electrical generators, air compressors, aerial lifts, forklifts, trenchers, backhoes, mobile cranes, and portable equipment including welding machines, pumps, and compactors.

PIPEFITTER 2ND YEAR

MODULES

Piping Systems (5 Hours)

(Module ID 08201) Introduces chemical, compressed air, fuel oil, steam, and water systems. Explains how to identify piping systems according to color codes, the effects of thermal expansion, and the purpose of pipe insulation.

Drawings and Detail Sheets (15 Hours)

(Module ID 08202) Introduces plot plans, structural drawings, elevation drawings, as-built drawings, equipment arrangement drawings, P&IDs, isometric drawings, spool drawings, detail sheets, and orthographic drawings. Explains how to read and interpret various types of drawings as well as the symbology used to convey information.

Identifying and Installing Valves (20 Hours)

(Module ID 08203) Identifies different types of valves, including those that start and stop flow, regulate flow, regulate flow direction, and relieve pressure, and describes their installation as well as proper storage and handling procedures. Covers common valve operators and actuators.

Pipefitting Trade Math (15 Hours)

(Module ID 08204) Explains how to use ratios and proportions, solve basic algebra, area, volume, and circumference problems, and solve for right triangles using the Pythagorean theorem.

YEAR TOTAL HOURS: 162

Threaded Pipe Fabrication (15 Hours)

(Module ID 08205) Describes the materials used in threaded piping systems. Explains how to determine pipe lengths between threaded pipe fittings, prepare the pipe and fittings for fit-up, and assemble the piping system. Includes how to calculate simple and rolling offsets.

Socket-Weld Pipe Fabrication (25 Hours)

(Module ID 08206) Describes the fittings and materials involved in socket-welds, interpreting drawings, determining pipe lengths between fittings, aligning pipe and fittings, and cutting out a socket weld to save the structure.

Butt-Weld Pipe Fabrication (37.5 Hours)

(Module ID 08207) Describes materials, fittings, drawings, calculating takeouts, determining pipe lengths between fittings, beveling pipe, aligning components for welding, performing alignments, and cutting a butt weld to save the structure.

Excavations (10 Hours)

(Module ID 08208) Explains soil and trenching hazards involved in excavations, as well as the use of shoring and shielding systems per OSHA standards, sloping requirements by soil type, and combined systems for trench reinforcement. Covers how to determine grade and elevation, how to use a laser level, and how to backfill.

Underground Pipe Installation (20 Hours)

(Module ID 08209) Explains pipe installation procedures and guidelines, including the procedures for cast iron, ductile iron, concrete, carbon steel, fiberglass, and thermoplastic pipe. Includes an introduction to horizontal directional drilling for pipe installation, and the use of a weak link for plastic pipe.

PIPEFITTER 3RD YEAR

TOTAL HOURS: 153

MODULES

Introduction to Basic Rigging (7.5 Hours)

(Module ID 00106) A common activity at nearly every construction site is the movement of material and equipment from one place to another using various types of lifting gear. The procedures involved in performing this task are known as rigging. Not every worker will participate in rigging operations, but nearly all will be exposed to it at one time or another. This module provides an overview of the various types of rigging equipment, common hitches used during a rigging operation, and the related Emergency Stop hand signal.

Rigging Practices (15 Hours)

(Module ID 38102) Describes basic rigging and safety practices related to rigging activities. Describes the use and inspection of equipment and hardware used in rigging. Explains how to apply common hitches. Covers jacks and joisting equipment.



Standards and Specifications (10 Hours)

(Module ID 08303) Discusses the meaning and importance of operating within the standards outlined and specifications. Explains commonly used codes, welding procedure specifications, and the identification of pipe and components.

Advanced Trade Math (25 Hours)

(Module ID 08304) Covers the role of trigonometry in pipefitting, including the use of trigonometric functions, triangle calculations, determining angles, interpolation, and calculating takeouts and odd angles.

Motorized Equipment Two (10 Hours)

(Module ID 08305) Discusses the safe and proper use of scissors lifts, telescoping boom lifts, cable lifts, drain cleaners, and hydraulic torque tools.

Introduction to Aboveground Pipe Installation (25 Hours)

(Module ID 08306) Identifies various types of pipes, flanges, gaskets, and bolts. Covers the fabrication of gaskets, assembling and installing flanged and grooved pipe, fabricating, and installing pipe spools, and installing pipe sleeves and floor penetrations.

Field Routing and Vessel Trim (15 Hours)

(Module ID 08307) Explains how to secure the work area and determine field run specifications, load weights for erection equipment, and support needs. Provides details on evaluating the run, assembling the field run, installing test blinds, working with instruments, and how to erect vessel trim.

Pipe Hangers and Supports (25 Hours)

(Module ID 08308) Explains the roles of pipe hangers and supports, with details on clevises, saddles, U-bolts, clamps, turnbuckles, rods, welded beam attachments, spring can support, travel stops, and snubbers.

Testing Piping Systems and Equipment (20 Hours)

(Module ID 08309) Discusses the importance of safety and following procedures with testing and inspections. Topics include pretest requirements, visual weld inspections, service flow tests, hard pressure tests, hydrostatic tests, and steam blow tests.

PIPEFITTER 4TH YEAR

TOTAL HOURS: 175

MODULES

Advanced Blueprint Reading (50 Hours)

(Module ID 08401) Introduces drawings used by pipefitters in the shop and in the field. Explains how to read and interpret P&IDs, general arrangement drawings, isometric drawings, and spool sheets. Discusses symbols, coordinates, control points, elevations, and step-by-step instructions for following a line of pipe through a set of drawings.

Advanced Pipe Fabrication (50 Hours)

(Module ID 08402) Explains the use of ordinate tables and trigonometry in creating fittings and pipe assemblies for process applications. Details are provided on calculating piping offsets, fabricating miter turns, laying out and fabricating saddles and supports made out of pipe, and laying out laterals, wyes, ninety-degree intersections, and supports without using references.

Stress Relieving and Aligning (10 Hours)

(Module ID 08403) Discusses the purpose of stress relieving and covers thermal expansion in piping, temperature and metal structure, and stress relief for aligning pipe to rotating equipment.

In-Line Specialties (20 Hours)

(Module ID 08405) Presents methods of safely working with specialty devices used in pipelines, including: snubbers, ball joints, bleed rings, drip legs, steam traps, expansion joints, filters, strainers, flowmeters, level measurement devices, flow pressure switches, rupture discs, thermowells, and desuperheaters.

Special Piping (25 Hours)

(Module ID 08406) Discusses methods of assembling copper tubing with flared and compression joints. Introduces brazing and soldering and explains the differences between these two procedures. Also describes bending pipe, working with glass-lined piping, handling hydraulic compression joints, and managing grooved piping systems.

Hot Taps (10 Hours)

(Module ID 08407) Provides details on environmental and other concerns associated with hot tapping. Discusses the installation of fittings, the operation of hot tap machines, working with line stop plugs, and identifying and mitigating known and potential hazards.

Maintaining Valves (10 Hours)

(Module ID 08408) Explains how to replace packing and O-rings, and how to open and close a valve's bonnet. Discusses how to safely troubleshoot and maintain several types of valves.

Fundamentals of Crew Leadership (22.5 Hours)

(Module ID 46101) The course covers basic leadership skills and explains different leadership styles, communication, delegating, and problem solving. Jobsite safety and the crew leader's role in safety are discussed, as well as project planning, scheduling, and estimating. Includes performance tasks to assist the learning process.

Heavy Equipment Operations

Apprenticeship Related Technical
Instruction/Coursework Outline





1ST YEAR



- **Orientation to the Trade (5 Hours), (Module ID 22101)** Provides an overview of heavy equipment terminology, operations, operator responsibilities, career opportunities, and basic principles of safety.
- **Heavy Equipment Safety (10 Hours), (Module ID 22102)** Provides a comprehensive overview of safety requirements on job sites with emphasis on OSHA, MSHA, and NIOSH requirements. Presents basic requirements for personal protection, safe equipment operations and maintenance, and HAZCOM.
- **Identification of Heavy Equipment (5 Hours), (Module ID 22103)** Instructs trainees in the care and use of the different types of hand and power tools they will use on the job. Gives trainees the information they need to select the appropriate tools for different tasks, and reviews tool maintenance and safety issues.
- **Basic Operational Techniques (27.5 Hours), (Module ID 22104)** Covers prestart checks of a machine's hardware (frame, body panels, tires or tracks, and safety equipment), driveline components, hydraulic system components, electrical components, and controls. Reviews machine safety issues. Explains how to safely start, move, steer, stop, and shut down different types of machines.



- **Utility Tractors (17.5 Hours), (Module ID 22105)** Covers operation of general utility tractors in the construction industry. Describes duties and responsibilities of the operator, safety rules for operation, the attachment of implements, and basic preventive maintenance practices.
- **Introduction to Earthmoving (12.5 Hours), (Module ID 22201)** Provides a broad introduction to the process of planning and executing earthmoving activities on various types of construction projects. The use of heavy equipment such as bulldozers, scrapers, excavators, and loaders are explained.
- **Grades (15 Hours), (Module ID 22106)** Introduces the concept of preparing graded surfaces using heavy equipment. Covers identification of construction stakes and interpretation of marks on each type of stake. Describes the process for grading slopes.
- **Vertical-Mast Sit-Down Counterbalance Forklifts (7.5 Hours), (Module ID 22107)** Covers operation of vertical-mast Sit-Down Counterbalance (SDCB) forklifts, commonly known as conventional forklifts. Describes duties and responsibilities of the operator, safety rules for operation, and distinguishing features. Includes operation for both indoor and outdoor environments.

2ND YEAR

Rough Terrain Forklifts (22.5 Hours), (Module ID 22206-13) Covers the uses of forklifts on construction sites. Includes instructions for lifting, transporting, and placing various types of loads, as well as safety, operation, and maintenance procedures.

On-Road Dump Trucks (20 Hours), (Module ID 22202-13) Covers uses, inspection, startup, shutdown, operator maintenance, and operation of dump trucks used to carry loads on public highways. Includes operation of dump trucks in normal and emergency situations.

Excavation Math (17.5 Hours), (Module ID 22207-13) Covers basic math skills required for site excavation work. Includes methods and practice in calculating the areas and volumes of various geometric shapes, as well as formulas and methods used to calculate cut and fill requirements on a job.

Interpreting Civil Drawings (20 Hours), (Module ID 22209-13) Explains how to read site plans to calculate cut and fill requirements. Provides instruction and practice in interpreting both roadway and construction site drawings used for excavation and grading work.





Site Work (20 Hours), (Module ID 22210-13)
Expands on information covered in Level 1 in relation to setting and interpreting grade stakes. Also provides information and instructions on controlling surface water and ground water on a job site, as well as the layout of foundations and laying of pipe.


Soils (10 Hours), (Module ID 22308-13)
Describes soil classification systems and explains how shrink and swell factors affect equipment selection. Discusses how soil conditions affect equipment performance and explains techniques for working with various types of soils.

Skid Steers (22.5 Hours), (Module ID 22212-13) Describes the many uses of skid steers and the attachments available for these machines. Covers safety practices, as well as inspection, startup, shutdown, and operation of skid steers.

Loaders (17.5 Hours), (Module ID 22205-13)
Covers the uses of wheel and track loaders, as well as operator maintenance, loader safety, and operating procedures. Includes procedures for using loaders in excavation, grading, and demolition work.

Scrapers (17.5 Hours), (Module ID 22204-13)
Describes the types of scrapers used in site preparation, as well as the safe practices associated with the operation of scrapers. Covers operator inspection and maintenance requirements, along with startup, shutdown, and operating techniques.

3RD YEAR

A yellow front loader is shown from a low angle, dumping a large pile of light-colored soil or gravel. The loader's bucket is raised and tilted, with the material falling out. The background is a clear blue sky with some light clouds. The loader's arm and hydraulic cylinders are visible, and a large tire is in the foreground.

Finishing and Grading (25 Hours), (Module ID 22307-14)
Provides training on common types of equipment and instruments used for finish grading; materials and methods used to stabilize soils and control soil erosion; and finishing and grading methods used for various applications.

Compaction Equipment (25 Hours), (Module ID 22203-14)
Provides training on common types of compaction equipment; the primary instruments, controls, and attachments of a roller; safety guidelines associated with compaction equipment; and prestart inspections, preventive maintenance, and proper operating procedures. Presents factors involved in work activities associated with a roller.



Backhoes (30 Hours), (Module ID 22303-14) Identifies and describes the common uses, types, components, instruments, controls, and attachments of backhoes. Presents safety guidelines, prestart inspection procedures, and preventive maintenance requirements. Describes basic startup and operation and covers common work activities associated with backhoes.

Off-Road Dump Trucks (30 Hours), (Module ID 22310-14) Identifies and describes the common types, uses, and components of off-road dump trucks. Presents safety guidelines, prestart inspection procedures, and preventive maintenance requirements. Covers basic startup, driving maneuvers, loading, and dumping procedures for off-road dump trucks.

Dozers (30 Hours), (Module ID 22302-14) Identifies and describes the common uses, types, and components of dozers. Presents safety guidelines, prestart inspection procedures, and preventive maintenance requirements. Describes basic startup and operation and covers common work activities associated with dozers.

Excavators (35 Hours), (Module ID 22304-14) Identifies and describes the common types, uses, and components of excavators. Presents safety guidelines, prestart inspection procedures, and preventive maintenance requirements. Describes basic startup and operation and covers common work activities associated with excavators.

Motor Graders (40 Hours), (Module ID 22305-14) Identifies and describes the common uses and types of motor graders. Presents safety guidelines, prestart inspection procedures, and preventive maintenance requirements. Describes basic startup and operation and covers common work activities associated with motor graders.

CONSTRUCTION CRAFT LABORER

Apprenticeship Coursework Outline





Level I

Module 1: Construction Safety & Hazard Awareness

1. OSHA 10 Construction
2. Safety Culture for Employees
3. Situational Awareness
 - What Is Situational Awareness?
 - Developing Situational Awareness
 - Applying Situational Awareness
4. Fire Safety for Construction
5. Slips, Trips, and Falls in the Construction Industry
6. Back Injury Prevention for Construction Workers
7. Lockout/Tagout for Construction
8. Electrical Safety
 - Wiring, GFCI, and Extension Cords
9. Hearing Conservation for Employees
10. Eye Safety
11. Foot Protection
12. ATV and UTV Safety (DRV-11.2)
13. Struck By and Caught Between Injuries for Construction Sites
14. Job Safety and Hazard Analysis

Module 2: Professional Development & Workplace Skills

15. Communication Skills
16. Employability Skills
17. Relationship-Building
 - With Colleagues
 - With Your Supervisor
 - Don't Burn Your Bridges

- 
- 18. Positivity: Staying Positive
 - 19. Becoming Detail-Oriented
 - 20. Taking Initiative
 - 21. Identifying and Developing Your Strengths
 - 22. Asking for and Making Sense of Feedback

Module 3: Career Advancement & Financial Wellness

- 23. Developing a Plan to Further Your Career
- 24. Getting Your Career on the Right Track
- 25. Taking Control of Your Career

- Career Planning
- Knowing Yourself
- Taking Action in Your Career

26. New Employee Math & Financial Wellness

- Savings
- Retirement Savings Basics
- Financial Wellness: Savings

Module 4: Construction Math Essentials

27. Basic Math Skills

- Adding and Subtracting
- Multiplying and Dividing
- Understanding Decimals
- Understanding Fractions
- Understanding Percentages

28. Math for Construction

- Finding Averages
- Inequalities
- Positive and Negative Numbers

Module 5: Construction Math Essentials

29. OSHA 30 Construction

Level II

Module 1: Leadership and Career Growth

1. Are You a Boss or a Leader?
2. Learning to Lead
3. The New Foreman Series:
 - Transitioning to Foreman
 - Getting More Out of Your Crew
 - Safety Leadership
 - Conflict Resolution as a Foreman
4. Moving Up in Your Career:
 - Defining Your Career
 - Maintaining Your Resume
 - Internal Interviews
 - Asking for a Raise
 - Internal Networking and Connecting with Executives
5. The Do's and Don'ts of Success
6. Negotiating Your Salary and Benefits
7. Understanding a Job Offer

Module 2: Construction Safety & Hazard Awareness

8. Safety Culture for Leaders
9. Trenching and Excavation Safety – Cal/OSHA
10. Flaggers – Cal/OSHA
11. Nuisance Dust
12. Silica in Construction
13. Storm Water Pollution Prevention

Module 3: Safety – Hand and Power Tool Skills

14. Preparing Your Tools and Station

15. Using Tools Safely

16. Hand and Power Tool Safety Impact:

- Hazards and Controls
- Specific Hazards
- Pneumatic Tools
- Powder-actuated Tools
- Grinders
- Electrical Tools

Module 4: Heavy Equipment & Rigging

17. Intro to Skid Steer Loaders

18. Forklift Safety Awareness - Cal/OSHA (Update)

19. Forklift Safety Awareness 2.0 - Cal/OSHA

20. Forklift Safety Impact:

- Load Center
- Capacity
- Walk-around Inspection
- Safe Operation and Work Practices
- Loading and Unloading Principles
- Sit-down Inspection

21. Flatbed Cargo Securement

22. Rigging Equipment and Inspection

23. Crane Signaling and Communications

Module 5: Job Offer Evaluation & Financial Literacy

24. Job Offer

- Load Center
- Capacity
- Walk-around Inspection
- Safe Operation and Work Practices
- Loading and Unloading Principles
- Sit-down Inspection

25. Getting Paid:

- Understanding the U.S. Tax System
- Taxes and Your Pay Stub
- Your New Job Paperwork
- Understanding Your Hidden Paycheck

01 Safety On Construction Site

Approximate Hours

Follow established safety rules and regulations. 400

Proper use of Person Protection Equipment. 425

Participate in daily site safety talks. 400

Stand down procedures due to weather or site emergency. Workplace security. 275

HOURS: 1500

02 Carpentry

Approximate Hours

Measure materials or objects for installation or assembly. 100

Select construction material to determine appropriate locations for installation. 100

Inspect work sites to determine condition or necessary repairs. Quality assurance-quality control 200

Perform staging or rigging of material 200

Assemble and install racking material 200

HOURS: 1600

03 General Tasks

Approximate Hours

Maintaining records or files, preparing reports, or use of protocol to order supplies or request equipment.

200

Perform physically demanding tasks, such as digging trenches or moving or lifting heavy objects.

350

Prepare and maintain clean worksite

350

HOURS: 1500

CONSTRUCTION CRAFT LABORER

On-the-Job Learning/Training Competencies

**Total Hours: 4000 (40 hours x 50
weeks = 2000 hours x 2 years).**

**REGISTERED
APPRENTICESHIP
PROVEN, ROI!**





Apprenticeship Benefits with LAC

Apprenticeship funding that offsets continued on-boarding and continued education expenses not a 1-time delivery.

LAC provides all the Learning Management System technology to support the online learning pathway all the way up to foreman and project manager as well as supporting curriculums for other key business areas like sales, IT, etc.

LAC provides Success Coaches to manage all administrative requirements, so it does not impact on your company's bottom line. The company gains access to:

- LAC's Curriculum Development Team to build out custom curriculum that meets your needs.
- The Educational Committees that shape the curriculum that comes out in future iterations.
- LAC's grant writing capabilities on a year over year basis.

Many companies view LAC Pre-Apprentices graduates as highly desirable candidates; therefore, we will place your organization as a preferred employer for our students for interview and placement opportunities.

Industries We Serve

- Construction
- Information Technology
- Renewable Energy
- Telecommunications/Broadband

Program lengths vary depending on the complexity of the occupation, employer, industry

Why Apprenticeship?



Industry Driven: Structured Learning Targeted Classroom Support Commitment to Diversity Safety and Quality Focused Nationally Recognized Credentials Programs are designed and approved by industry leaders, guaranteeing they align with current needs and prepare apprentices for high-skill, in-demand jobs.

Structured Learning: Apprentices receive hands-on training guided by experienced mentors, ensuring they develop practical skills for a successful career.

Targeted Classroom Support: Supplemental classroom education is tailored to each employer's specific requirements, providing apprentices with the knowledge they need to excel.

Commitment to Diversity: Programs actively recruit and support a diverse workforce through strong anti-discrimination and inclusion practices.

Safety and Quality Focused: Apprenticeships prioritize both safety and quality by offering worker protection, rigorous training, and proper supervision.

Nationally Recognized Credentials: Upon completion, apprentices earn a portable credential valued cross the nation within their chosen industry.

Cost: LAC may have funding available to cover education expenses. Reach out to us today for more information!

**ARE YOU INTERESTED
IN JOINING US?
COME AND LEARN
MORE ABOUT US**





2 Easy Enrollment Steps to the E

Program Registration and
Apprenticeship Agreement
Office of Apprenticeship

U.S. Department of Labor
Employment and Training Administration



APPRENTICE REGISTRATION – SECTION II OMB No. 1205-0223 Expiration Date: 03/31/2023

This agreement does not constitute a certification under Title 29 Code of Federal Regulations (CFR) Part 5 for the employment of the apprentice on Federally financed or assisted construction projects. Current certifications must be obtained from the Office of Apprenticeship (OA) or the recognized State Apprenticeship Agency.

The program sponsor and apprentice agree to the terms of the Apprenticeship Standards incorporated as part of this agreement and in accordance with Title 29 CFR Parts 29 and 30. The sponsor's Apprenticeship Standards are attached and hereby incorporated into this agreement as they exist on the date of the agreement. These Standards may be amended during the period of this agreement with the consent of the parties to the agreement. This agreement may be terminated by either of the parties, citing cause(s), with notification to the registration agency, in compliance with Title 29 CFR Part 29.

PART A: TO BE COMPLETED BY APPRENTICE. NOTE TO SPONSOR: PART A SHOULD ONLY BE FILLED OUT BY APPRENTICE.

1. Name (Last, First, Middle) and Address (No., Street, City, State, Zip Code, Telephone Number)		*Social Security Number - -	Answer Both A and B (Voluntary) (Definitions on reverse)	5. Veteran Status (Mark one) <input type="checkbox"/> Non-Veteran <input type="checkbox"/> Veteran
2. Date of Birth (Mo., Day, Yr.)	3. Sex (Mark one) <input type="checkbox"/> Male <input type="checkbox"/> Female		4. a. Ethnic Group (Mark one) <input type="checkbox"/> Hispanic or Latino <input type="checkbox"/> Not Hispanic or Latino b. Race (Mark one or more) <input type="checkbox"/> American Indian or Alaska native <input type="checkbox"/> Asian <input type="checkbox"/> Black or African American <input type="checkbox"/> Native Hawaiian or other Pacific Islander <input type="checkbox"/> White	b. Education Level (mark one) <input type="checkbox"/> Less than 9 th grade <input type="checkbox"/> 9 th to 12 th grade, no diploma <input type="checkbox"/> High School graduate or GED <input type="checkbox"/> Some College or Associate's degree <input type="checkbox"/> Bachelor's degree <input type="checkbox"/> Master's degree <input type="checkbox"/> Doctorate or Prof. degree
7a. Employment Status (Mark one) <input type="checkbox"/> New Employee <input type="checkbox"/> Existing Employee				
7b. Career Connection (Mark one) (Instructions on reverse) <input type="checkbox"/> None <input type="checkbox"/> Pre-Apprenticeship <input type="checkbox"/> Technical Training School <input type="checkbox"/> Military Veterans <input type="checkbox"/> Job Corps <input type="checkbox"/> YouthBuild <input type="checkbox"/> HUD/STEP-UP <input type="checkbox"/> Career Center Referral <input type="checkbox"/> School-to-Registered Apprenticeship				
8. Signature of Apprentice		Date	9. Signature of Parent/Guardian (if minor) Date ----- N/A -----	

PART B: SPONSOR: EXCEPT FOR ITEMS 6, 7, 8, 10a. - 10c, REMAINDER OF ITEMS REPOPULATED FROM PROGRAM REGISTRATION.

1. Sponsor Program No. 2022-ZA-104137 Sponsor Name and Address (No. Street, City, County, State, Zip Code) LEARNING ALLIANCE CORPORATION 5910 Breckenridge Parkway Suite B Tampa, Florida 33610		2a. Occupation (The work processes listed in the standards are part of this agreement).	2b. Occupation Code: 2b.1. Interim Credentials Only applicable to Part B, 3.b. and 3.c. (Mark one) <input type="checkbox"/> Yes <input type="checkbox"/> No
3. Occupation Training Approach (Mark one) 3a. <input type="checkbox"/> Time-Based 3b. <input type="checkbox"/> Competency-Based 3c. <input type="checkbox"/> Hybrid	4. Term (Hrs., Mos., Yrs.)	5. Probationary Period (Hrs., Mos., Yrs.)	
6. Credit for Previous Experience (Hrs., Mos., Yrs.) 0	7. Term Remaining (Hrs., Mos., Yrs.)	8. Date Apprenticeship Begins	
9a. Related Instruction (Number of Hours Per Year)	9b. Apprentice Wages for Related Instruction <input type="checkbox"/> Will Be Paid <input checked="" type="checkbox"/> Will Not Be Paid	9c. Related Training Instruction Source Learning Alliance Corp.	

10. Wages: (Instructions on reverse)

10a. Prior Hourly Wage \$	10b. Apprentice's Entry Hourly Wage \$	10c. Journeyworker's Hourly Wage \$
Check Box 10d. Term <input checked="" type="checkbox"/> Hrs., <input type="checkbox"/> Mos., or <input type="checkbox"/> Yrs.	Period 1 2 3 4 5 6 7 8 9 10	
10e. Wage Rate (Mark one) % <input type="checkbox"/> or \$ <input type="checkbox"/>		

11. Signature of Sponsor's Representative(s) Date Signed	13. Name and Address of Sponsor Designee to Receive Complaints Fred Arnold, Executive Director, Learning Alliance Corp. 5910 BRECKENRIDGE PKWY., TAMPA, FL 33610
12. Signature of Sponsor's Representative(s) Date Signed	

PART C: TO BE COMPLETED BY REGISTRATION AGENCY

1. Registration Agency and Address	2. Signature (Registration Agency)	3. Date Registered
4. Apprentice Identification Number (Definition on reverse):		

ETA 671 – Section II

The Department of Labor Registration Form

ps Sent Electronically Employee

Employment Attestation

(For Scholarship Opportunity Purposes)

First Name _____ Middle _____ Last _____

Date of Birth _____ Social Security Number _____

Address:

Street: _____

Street 2: _____

City: _____ State: _____ Zip: _____

Willing to relocate? _____

Contact Information:

Cell Phone: _____

Text Message Okay: _____

Home Phone: _____

Personal Email: _____

This section requires an answer.

Demographics:

Gender _____

U.S. Military Veteran _____

Discharged _____

GI Bill Eligible _____

This section requires an answer.

Ethnicity & Race: (Check all that apply)

- ☐ Hispanic/Latino
- ☐ Asian
- ☐ Black/African American
- ☐ Native Hawaiian or Other Pacific Islander
- ☐ American Indian or Alaskan Native
- ☐ Caucasian
- ☐ Other _____
- ☐ Prefer not to answer

This section requires an answer.

Historical Information:

Are you a U.S. Citizen? _____ If no, are you eligible for full-time work in the U.S.? _____

Have you been convicted of a misdemeanor or felony in the past ten years? _____
(employers conduct background checks, this may not impact your eligibility)

Do you have a disability? _____

Disability includes, but is not limited to: Autism, Bipolar Disorder, visually impaired, hearing impaired, cancer, cerebral palsy, diabetes, epilepsy, HIV/AIDS, impairments requiring a wheelchair or other device, intellectual disability, Major depression, missing limbs or partially missing limbs, Multiple Sclerosis (MS), Muscular Dystrophy (MD), Obsessive Compulsive Disorder (OCD), and other similar impairment that may impact your ability to perform the job.

Reasonable Accommodation Notice:

Federal law requires employers to provide reasonable accommodations to qualified individuals with disabilities. Please tell us if you require reasonable accommodation to apply for a job or to perform your job duties. Examples of reasonable accommodations include making a change to the application process or work procedures, providing documents in an alternate format, using a sign language interpreter, or using specialized equipment.

This section requires an answer.

Check the box(es) below that best describes your current employment status:

Unemployed:

- ☐ I hereby certify that I am without a job, seeking employment, and available to work.
- ☐ **Long-Term Unemployed:** I have been unemployed for 27 consecutive weeks or longer.

Employed - I certify that I am (check all that apply):

- ☐ Yes / ☐ No - Are you a new employee who has been hired within the last 6 months?
- ☐ Employed part-time and seeking full-time or long-term work.
- ☐ Employed in a temporary or seasonal position that is anticipated to end.
- ☐ Employed, but I have received a notice of layoff, termination, or military separation is pending.
- ☐ Employed, but not currently connected to a full-time job commensurate with my level of education, skills, or wages I have previously earned.
- ☐ Employed, but in need of additional training to upgrade my skills to retain my position or advance into a new position.
- ☐ **None of the statements above apply to me** (describe your current employment status)

If you are employed, are you underemployed (not having enough paid work or not doing work that makes full use of their skills and abilities)? ☐ Yes

LAC_AttestRelease_vnt24.2

LASCE Scholarship Opportunity Form

DOL Certificate of App

U.S. DEPARTMENT OF LABOR -
APPRENTICESHIP

Construction Company
1234 Main Lane
Somewhere, NY 12345

The following individuals are apprentices registered with the
Apprenticeship, under the participating employer:

Employer Number: 2022-

Construction
1234 Main
Somewhere,

This participating employer is under

Program Number: 2

LEARNING ALLIANCE
5910 Breckenridge
Tampa, FL

Apprentice ID	SSN	Apprentice Name	Occupation
ZA2024100000	***- **-555!	Doe, John	CONSTRUCTION CRAFT LABORER (0661 V1 Time-Base



Certified by the U.S. Department of Labor

Date Issued: 12/10/2024

****VOID 90 DAYS FROM

Apprentice Verification

OFFICE OF APPRENTICESHIP CERTIFICATION

The U.S. Department of Labor, Office of

ZA-104137-FL-58480

Company

n Lane

FL 32100

er the sponsorship of program:

022-ZA-104137

CE CORPORATION

Parkway Suit A

33610

on	Date Apprenticeship Began	Date Cancelled	Date Completed
TION R) ed	8/26/2024		

ment of Labor

OM ISSUE DATE****

CERTIFICATE

The United States

Office of Apprenticeship
Certificate of Completion

This is to certify that

Billy J.

has completed an apprenticeship

Pipefitter

under the sponsorship of

LEARNING ALLIANCE

In Participation With

in accordance with the basic

established by the

Cesar Ruiz, President/CEO

Fred Arnold, Executive Director

Date Completed : May 17, 2023

Digital ID : 4203694



CATION

Department of Labor

Apprenticeship

Division of Apprenticeship

certify that

Joe Doe

Apprenticeship for the occupation

Technician

Sponsorship of

ANCE CORPORATION

Learning Alliance Corporation

the standards of apprenticeship

Secretary of Labor



John V. Ladd

Administrator, Office of Apprenticeship

[illegible]

PREV

***** SAVING!**

YOUR EMPL

PIPEFITTER

1 JOURNEYWORK

PREVAILING ANNUAL

\$ 55.00 \$ 38.62 \$ 93.62

Program Legnth	Apprentice Level	Journeyman Rate	Fringes	Apprentice % Level	Hourly Rate		Per Hour	Hours Per Year	
1st Year	1 Level	\$55.00	\$38.62	50%	\$66.12		\$27.50	1000	
	2 Level	\$55.00	\$38.62	55%	\$68.87		\$24.75	1000	
2nd Year	3 Level	\$55.00	\$38.62	0%	\$38.62		\$55.00	1000	
	4 Level	\$55.00	\$38.62	0%	\$38.62		\$55.00	1000	
3rd Year	5 Level	\$55.00	\$38.62	0%	\$38.62		\$55.00	1000	
	6 Level	\$55.00	\$38.62	0%	\$38.62		\$55.00	1000	
4th Year	7 Level	\$55.00	\$38.62	0%	\$38.62		\$55.00	1000	
	8 Level	\$55.00	\$38.62	0%	\$38.62		\$55.00	1000	

*** SAMPLE *** SAMPLE *** SAMPLE ***

E MATH!

MAIL WAGE SAVINGS		\$52,250.00		
S ARE ESTIMATED. ESTIMATES DO NOT INCLUDE BURDENS SUCH AS TAXES AND OTHER OFFERINGS TO OYEEES/APPRENTICES.				
RK vs. 1 APPRENTICE ANNUAL WAGE SAVINGS		SAMPLE		
Savings Per Apprentice	Number of Apprentices	School Cost Per Year	Members School Cost	Annual Wage Savings For Apprentices
\$27,500.00	1	\$1,500.00	\$0.00	\$27,500.00
\$24,750.00	1	\$1,500.00	\$0.00	\$24,750.00
\$55,000.00	0	\$1,500.00	\$0.00	\$0.00
\$55,000.00	0	\$1,500.00	\$0.00	\$0.00
\$55,000.00	0	\$1,500.00	\$0.00	\$0.00
\$55,000.00	0	\$1,500.00	\$0.00	\$0.00
\$55,000.00	0	\$1,500.00	\$0.00	\$0.00
\$55,000.00	0	\$1,500.00	\$0.00	\$0.00
\$55,000.00	0	\$1,500.00	\$0.00	\$0.00
* SAMPLE *** SAMPLE *** SAMPLE *** SAMPLE **				
TOTAL WAGE SAVINGS:				\$52,250.00



Jim Falk, Business Development Manager

✉ jfalk@MyLearningAlliance.com

🌐 www.americanpipeline.org

☎ +813-851-4736