

NEW ENGLAND LABORERS' TRAINING ACADEMY

Course Catalog





ince 1969, the New England Laborers' Training Trust

Solution Fund has been a recognized leader in the Laborers'
International Union of North America's education and training structure. Our trainees receive intensive class-room and hands-on job simulated instruction in all aspects of the Laborers' Construction Craft trade. As the New England Laborers' Training Trust Fund continues to improve and expand to meet future needs, we are proud of our history, our Training Academies, the comprehensive training programs, and of course, the quality of our NELTA graduates.

World Class Training Facilities

The New England Laborers' Training Trust Fund operates two multi-functional academies in Massachusetts and Connecticut. Both facilities offer outside training sites, classrooms, indoor training areas, meeting rooms, dormitories and recreational and dining facilities.

Classroom Sessions

On-site classrooms cover technical information on safety, work procedures, and proper equipment operation and maintenance that enhances the practical demonstrations. Testing and certifications are also offered for courses requiring licensing.

Registration

To enroll in any offered courses, each LIUNA member must go through their respective local union. For more information, please contact your local office.

ABOVEGROUND DRILLING WORKER

The Aboveground Drilling manual introduces the unique working environment of aboveground drilling. The care and use of tools and equipment are covered, as well as drilling techniques. Basic information about rocks and their composition and characteristics are introduced. Safety on a drilling site is reviewed in depth. Site safety, hazard communication, health hazards, personal protective equipment, and working around explosives are also covered.

Course length: 80 hours Topics covered:

- Introduction to Aboveground Drilling
- Safety and Health
- Working with Jackhammers
- Compressors
- Drilling Operations
- Drill Maintenance
- Drilling Patterns and Layout

ANTHRAX REMEDIATION

The Anthrax Remediation course presents information that Laborers must know to work safely, effectively, and efficiently during remediation of anthrax contamination. This manual is also available in Polish and Spanish.

Course length: 16 hours Topics covered:

- Health Effects and Characteristics of Anthrax
- Medical Testing and Treatment for Anthrax
- Personal Protective Equipment
- Decontamination
- Work Area Monitoring and Sampling
- Work Area Preparation and Remediation Techniques

ASBESTOS ABATEMENT WORKER

The Asbestos Abatement Worker manual covers the hazards of asbestos, specific procedures used on the job, and the legal rights of Construction Craft Laborers. Additionally, the OSHA standards that govern asbestos abatement are included. This manual is also available in Polish, Russian, and Spanish.

Course length: 40 hours Topics covered:

- Ashestos and its Uses
- Health Effects of Asbestos
- Medical Monitoring and Surveillance
- Legal Rights
- Asbestos Abatement Regulations
- Personal Protective Equipment and Clothing
- Safe Work Practices
- Engineering Controls
- General Site Safety
- Recommended Practices for the Use of Negative Pressure Air Filter Systems
- Preparing the Work Area and Setting Up the Decontamination Unit
- Asbestos Abatement Techniques
- Air Monitoring
- Hazard Communication Regulations

ASBESTOS ABATEMENT WORKER REFRESHER

The Asbestos Abatement Worker Refresher manual is approved as part of a program to meet the refresher course requirements of the EPA and state regulations. Up-to-date information regarding new regulations, equipment, work procedures, and other related information is detailed

- Introduction to Asbestos
- Health Effects of Asbestos
- Medical Monitoring and Surveillance
- Legal Rights of Workers and Asbestos Abatement
- Regulations
- Personal Protective Equipment
- Site Safety Negative Pressure Air Filter Systems for Class 1
- Asbestos Abatement
- Preparing the Work Area and Decontamination Unit
- Asbestos Abatement Techniques
- Air Monitoring
- Hazard Communication

ASBESTOS ABATEMENT SUPERVISOR

The Asbestos Abatement Supervisor course builds on the information provided in the 40-hour Asbestos Abatement Worker course. Emphasis is placed on enhancing leadership and communication skills.

Course length: 40 hours Topics covered:

- Worker's Course Topics
- Safety and Health Hazards (other than asbestos)
- Contracts
- Insurance and Liability
- Respirators Legal Requirements
- Record Keeping for Supervisors
- Supervision
- Air Monitoring

ASBESTOS ABATEMENT SUPERVISOR REFRESHER

The Asbestos Abatement Supervisor Refresher course provides the supervisor with important up-to-date information concerning new regulations and advancements in asbestos abatement technology.

Course length: 8 hours Topics covered:

- Types of Asbestos
- Health Effects of Asbestos
- Legal Standards
- Medical Surveillance
- Respiratory Protection
- Work Practices
- Respirator Protection Programs
- Record Keeping
- Changes in Federal and State Regulations
- New Techniques and Technologies

ASPHALT WORKER

The Asphalt Worker manual overviews the placement, spreading, raking, and compaction of asphalt materials. Also covered are safety issues when working with asphalt, such as burns, fumes and chemicals, and heat stress. The manual introduces concepts related to the properties, uses, and mix designs of asphalt and the equipment and tools used in paving operations.

Course length: 40 hours Topics covered:

- Safety
- Asphalt Basics
- Placing Methods
- Repairing and Patching
- Cleanup and Maintenance

BRIDGE CONSTRUCTION, RENOVATION, AND DEMOLITION

The Bridge Construction, Renovation, and Demolition (BCRD) manual covers the many topics Construction Craft Laborers should know to work safely and productively on bridge construction. An overview of work procedures, the hazards encountered, and personal protective equipment will be provided.

Course length: 40 hours Topics covered:

- Personal Protective Equipment
- Electrical Safety
- Excavation Safety
- Hazard Communication
- Confined Spaces
- Lead Awareness
- Silica Awareness
- Rigging and Signaling
- Elevated Work Platforms
- Fall Protection
- Hand and Power Tools
- Oxyacetylene Torch Cutting

CONCRETE PRACTICES AND PROCEDURES

The Concrete Practices and Procedures manual covers the principles of concrete, the tasks involved in placing, finishing, and repair of concrete, and the hazards associated with each of these. Several other topics that are critical for concrete workers to know and apply are also covered, including construction math, project planning, and site preparation.

- Safety
- Construction Math and Measurements
- Project Planning
- Site Preparation
- Forming for Placement
- Placement and Consolidation
- Finishing and Curing
- Stripping and Clean Up
- Concrete Admixture
- Sawing Concrete
- Concrete Repair

CONFINED SPACE - PERMIT REQUIRED

Detail Description: The Permit Required Confined Space manual covers the types of confined spaces encountered in construction, the potential hazards, means to monitor and control the hazards, and the variety of equipment used to safely work in and around these areas. This manual is also available in Polish and Spanish.

Course length: 24 hours Topic Covered:

- Characteristics of Confined Spaces
- Hazard Recognition
- Health Effects of Potential Hazards
- Atmospheric Monitoring
- Entry Programs
- Controlling Atmospheric Hazards
- Control of Hazardous Energy
- Respiratory Protection (optional)



CRAFT ORIENTATION

The Craft Orientation manual is geared towards new members and apprentices and provides information on the wide range of jobs that are available in the building, heavy and highway, utility, and environmental construction fields. Job descriptions are presented to help new Construction Craft Laborers choose a career path. This manual is also available in Polish, Russian, and Spanish.

Course length: 4 hours Topics covered:

- Construction Industry
- Construction Craft Laborer
- Apprenticeship
- Being a Union Member
- · Wages and Benefits
- OSHA
- LIUNA Organizations
- Employer Organizations

FIREWATCH

The Firewatch manual covers the basic principles needed to work safely around different kinds of fire. The variety of firewatches are also discussed.

Course length: 4 hours Topics covered:

- Types of fire
- Types of extinguishers
- Type of watches

GENERAL CONSTRUCTION

The General Construction manual covers fundamental construction information from the four major categories of construction: Building, Heavy Highway, Utilities, and Environmental. This manual is also available in Polish and Spanish.

Types of work covered in each category:

Building - construction and reconstruction on residential and commercial buildings

Heavy Highway - construction and reconstruction on major and secondary highways, subdivision streets, bridges, tunnels, and airfields

Utilities - construction and reconstruction of underground utilities and piping systems such as petroleum, water, sewer, telephone, electric, and natural gas distribution and collection systems

Environmental - construction and reconstruction associated with hazardous waste removal, asbestos and lead abatement, and nuclear remediation

Course length: 160 hours Topics covered:

- Craft Orientation Safety
- Materials Identification
- Hand Tools
- Power Tools
- Compaction
- Signaling and Rigging
- Cutting and Burning
- Construction Math

HAZARD COMMUNICATION

The Hazard Communication manual introduces the OSHA Hazard Communication Standard as it applies to the construction industry. The manual covers the guide-lines for recognizing and protecting workers from exposure to hazardous chemicals, including identifying chemical hazards and the proper use of container labels, placards, and material safety data sheets. This manual is also available in Polish and Spanish.

Course length: 4 hours Topics covered:

- Hazard Communication Regulations
- Material Safety Data Sheets
- Chemical Labels and Lists
- Chemicals Used in Construction

HAZARDOUS WASTE WORKER

The Hazardous Waste Worker manual is part of a program that meets the requirements of OSHA 29 CFR 1910.120. The manual serves as a foundation for the course that doubles OSHA's 40-hour minimum training requirements. This manual is also available in Polish and Spanish.

Course length: 80 hours Topics covered:

- Hazard Recognition
- Hazard Communication
- Health Effects
- Personal Protective Equipment
- Decontamination
- Site Safety and Health Plan
- Material Handling and Sampling
- Workplace Monitoring
- Permit-Required Confined Space

- Legal Rights
- Superfund
- Community Relations

HAZARDOUS WASTE WORKER REFRESHER

The Hazardous Waste Worker Refresher manual is part of a program that meets the requirements of OSHA 29 CFR 1910.120. The manual reviews information provided in the 80-hour Hazardous Waste Worker course. In addition, new regulations, technologies, and advancements are covered. This manual is also available in Spanish.

Course length: 8 hours Topics covered:

- Hazard Recognition
- Hazard Communication
- Health Effects
- Personal Protective Equipment
- Decontamination
- Site Safety and Health Plan
- Material Handling and Sampling
- Workplace Monitoring
- Permit-Required Confined Space
- Legal Rights

HAZARDOUS WASTE SUPERVISOR

The Hazardous Waste Supervisor manual is part of a program that meets the requirements of OSHA 29 CFR 1910.120 for management and supervisory personnel on hazardous waste sites. The manual builds on the 80-hour Hazardous Waste Worker course and provides additional information on supervisory issues.

- Leadership
- Safety and Health Plans
- Safety and Health Plan Implementation
- Quality Assurance
- Emergency Response Plans
- Stress and Emergency Response
- Personal Protective Equipment
- Media Relations
- Rights and Remedies Supervisor's Issues

HEARING PROTECTION

The Hearing Protection course instructs trainees in ways to protect themselves from loud and unnecessary noise on the job. They learn how noise is measured and the different types of noises. Health and safety issues are covered, with emphasis on monitoring noise levels and exposure limits. Hearing conservation is discussed in detail, including audiometric testing, recordkeeping, and controlling noise exposure.

Course length: 4 hours Topics covered:

- Introduction to Noise
- Health and Safety
- Hearing Conservation Program
- Regulations

HIGHWAY WORK ZONE SAFETY

The Highway Work Zone Safety manual covers work practices and procedures in the work zone as well as "behind the barrel."

- Flagger Safety
- Traffic Control
- Personal Protective Equipment
- Environmental Hazards
- Hazard Communication
- Work Processes
- Work Site Safety
- Hand and Power Tools
- Communication

HOISTING AND RIGGING

The Hoisting and Rigging manual provides details on federal, state, and equipment manufacturers' standards. An in-depth look at the variety of equipment, work procedures, techniques, and safety considerations are also provided.

Course length: 40 hours Topics covered:

- Introduction to Hoisting and Rigging
- Wire Rope and Fiber Rope
- Knots, Hitches, and Bends
- Determining the Weights of Loads
- Rigging Hardware
- Slings

LEAD ABATEMENT WORKER

The Lead Abatement Worker manual covers abatement methods for safely removing lead from materials and safely handling lead-contaminated materials. Additionally, the OSHA standards that apply to lead abatement are included. This manual is also available in Polish, Russian, and Spanish.

- History of Lead and Its Uses
- Health Effects/Personal Protective Equipment
- Site Safety/Lead Regulations
- Sampling Methods
- Residential/HUD Inspections and Risk
- Assessments
- Residential/HUD Work Practices, Abatement
- Methods, and Disposal Procedures
- Hazard Communication/Legal Rights of Workers
- Abotement Methods on Steel Structures

LEAD ABATEMENT WORKER REFRESHER

The Lead Abatement Worker manual is also used for the Lead Abatement Worker Refresher course and covers abatement methods for safely removing lead from materials and safely handling lead-contaminated materials. Additionally, the OSHA standards that apply to lead abatement are included.

Course length: 8 hours Topics covered:

- History of Lead and Its Uses
- Health Effects/Personal Protective Equipment
- Site Safety/Lead Regulations
- Sampling Methods
- Residential/HUD Inspections and Risk Assessments
- Residential/HUD Work Practices, Abatement Methods, and Disposal Procedures
- Hazard Communication/Legal Rights of Workers
- Abatement Methods on Steel Structures

LEAD ABATEMENT SUPERVISOR

The Lead Abatement Supervisor manual builds on the materials in the Lead Abatement Worker course and provides supervisors with information on their responsibilities during lead abatement projects. Applicable OSHA standards are included

Course length: 40 hours Topics covered:

- Lead and Its Uses
- Health Effects Caused By Lead Exposure
- Regulations
- Sampling Methods
- Residential/HUD Inspections and Inspection Reports
- Risk Assessment
- Resident Protection
- Personal Protective Equipment
- Residential/HUD Work Practices, Abatement Methods, and Diposal Procedures
- Clearance Sampling
- Insurance
- Hazard Communication

LEAD ABATEMENT SUPERVISOR REFRESHER

The Lead Abatement Supervisor manual is also used for the Lead Abatement Supervisor Refresher course and builds on the materials in the Lead Abatement Worker course and provides supervisors with information on their responsibilities during lead abatement projects. Applicable OSHA standards are included.

Course length: 8 hours Topics covered:

- Lead and Its Uses
- Health Effects Caused By Lead Exposure

- Regulations
- Sampling Methods
- Residential/HUD Inspections and Inspection Reports
- Risk Assessment
- Resident Proteciton
- Personal Protective Equipment
- Residential/HUD Work Practices, Abatement Methods, and Diposal Procedures
- Clearance Sampling
- Insurance
- Hazard Communication

LEAD AWARENESS

The Lead Awareness manual covers the hazards and work activities of jobs involving lead exposure such as demolition or the cutting of steel covered with lead-based paint. This manual is intended as providing awareness to workers and does not comply with EPA or OSHA training for workers who may be potentially exposed to elevated levels of lead.

Course length: 8 hours Topics covered:

- History of Lead and its Uses
- Health Effects of Lead
- OSHA Lead Regulations
- Abatement Methods on Steel Structures

PLEASE NOTE: If the course is presented solely as a lead awareness course, it does not comply with EPA's training requirements for lead abatement training for target housing or child-occupied facilities. In order to work on residential lead abatement projects, trainees must undergo training by an approved lead abatement training provider certified by the EPA or proper state authority. Please contact Laborers-AGC if you have further questions.

LEAD AND SILICA IN BRIDGES

The Lead and Silica in Bridges manual covers the tasks and skills needed to perform work activities safely on jobs involving lead and silica exposure. The course is divided into two major areas (lead and silica), which may be presented together or separately as either an 8-hour lead or an 8-hour silica awareness course. Please see Lead Awareness or Silica Awareness to address each of these issues separately.

Course length: 16 hours Topics covered:

- History of Lead and its Uses
- Health Effects of Lead
- OSHA Lead Regulations
- Personal Protective Equipment
- Abotement Methods
- Silica and Its Uses
- Health Effects of Silica
- Medical Surveillance
- OSHA Special Emphasis Program for Silica
- Silica Control Measures

PLEASE NOTE: If the course is presented solely as a lead awareness course, it does not comply with EPA's training requirements for lead abatement training for target housing or child-occupied facilities. In order to work on residential lead abatement projects, trainees must undergo training by an approved lead abatement training provider certified by the EPA or proper state authority. Please contact Laborers-AGC if you have further questions.

LINE AND GRADE: HIGHWAY GRADE CHECKING

The Line and Grade manual covers information related to the necessary skills for maintaining elevation and alignment control points for heavy and civil construction projects.

Course length: 40 hours Topics covered:

- Measurement Systems
- Construction Line
- Measurement Techniques and Equipment
- Views
- Stationing Systems
- Slope Expressions
- Construction Referencing Systems
- Roadway Slopes (Heavy Highway)
- Intermediate Slope Stakes
- Roadway Matrix
- Curb and Gutter Systems
- Quantity Calculations

MASON TENDING, PRACTICES AND PROCEDURES

The Practices and Procedures of Mason Tending manual introduces the basic concepts of mason tending. Included are discussions on the necessary technical skills as well as information on safety, tools and materials, and important terms and definitions

Course length: 80 hours Topics covered:

- Safety and Project Planning
- Scaffold Assembly
- Estimating and Proper Stocking Techniques
- Mortar and Grout Mixina
- Tending the Mason
- Masonry Saw Operation
- Mortar/Grout Additives
- Reinforced Masonry Construction
- Forklift Operation and Safety
- Advanced Scaffolding Techniques

METRIC MEASUREMENT IN CONSTRUCTION

The Metric Measurement in Construction manual was developed as a result of the U.S. Federal Highway Administration's plans to build all roads and highways using metric units of measure beginning in October 1998. The course introduces and overviews the metric system. Units of measure, conversions, and real world applications are covered.

Course length: 16 hours Topics covered:

- Units of Measure
- Metric units of Measure
- Volume
- Estimatina
- Performance Operations with the Metric System
- Blueprints and Work Site Practice

MICROBIAL REMEDIATION

The Microbial Remediation manual covers the causes of indoor air pollution and methods to remediate them. Emphasis is placed on the remediation of mold and mildew, however these practices can be adapted for the entire range of microbial organisms (including microbes used for biological weapons). This manual is also available in Polish and Spanish.

Course length: 24 hours Topics covered:

- Indoor Air Pollution
- Sick Building Syndrome
- Health Effects
- Work Area Sampling
- Hazard Communication (optional)
- Personal Protective Equipment

- Work Area Preparation and Remediation Techniques
- Decontamination

NUCLEAR POWER PLANT WORKER

The Nuclear Power Plant Worker manual overviews maintenance and shutdown activities at nuclear power plants and job assignments that involve unescorted entry into areas controlled for radiological purposes. This manual is divided into nine topics that discuss the theory, basic radiological fundamentals, and the terms Construction Craft Laborers must know to work safely around radiological hazards.

Course length: 24 hours Topics covered:

- Radiation Fundamentals and Units of Measurements
- Sources of Radiation Exposure
- Nuclear Energy
- Biological Effects of Radiation Exposure
- Radiation Protection Methods
- Radiological Posting and Entry Requirements
- Radiation Detection Equipment and Personal Dosimetry
- Personal Protective Equipment
- Emergency Response
- Quality Assurance and Security, Fitnes for Duty, and Construction Safety

OSHA CONSTRUCTION SAFETY & HEALTH

The OSHA Construction Safety and Health manual overviews the contents of the OSHA 1926 Code of Federal Regulations and is part of a program that will fulfill OSHA's training requirements for Construction Safety and Health. The manual can be used in either the 10 hour or 30 hour course. Some of the topics in the manual are optional; others are mandatory. Standards that must be adhered to on con-

struction sites and the issues in creating a safe and healthy work environment are covered. This manual is also available in Polish and Spanish.

Course length: 10 or 30 hours Topics covered:

- Introduction to OSHA
- OSHA Inspection Procedures
- General Safety and Health Provisions
- Confined Spaces
- Occupational Health and Environmental Controls
- Personal Protective Equipment
- Fire Protection/Prevention, Material Handling and Cranes
- Hand and Power Tools
- Welding and Cutting
- Electrical, Scaffolds, Fall Protection,
- Excavations, Concrete and Masonry Construction
- Stairways and Ladders

PIPE LAYING PROGRAM (New Format)

Back Injury Prevention

This module covers information on maintaining a healthy back and preventing back injuries on the job. The guide discusses how to make your back stronger, special techniques to protect your back, prevent injury, and what to do if injury occurs. Handouts for classroom and hands-on exercises are included. The module also has an Instructor Guide and contains 7 exercises dealing with proper back care, how to prevent back injury and the proper way to lift and shovel on the job.

Module length: 3 hours

Basic Construction Math

The Basic Construction Math module covers basic math operations and applies them to problems in the construction industry. The guide discusses taking measurements and using math to do tasks including measuring pipe, placing concrete, and setting grade stakes. The module also has an Instructor Guide and contains 10 exercises dealing with using math in the construction industry.

Module length: 8 hours

Confined Space Awareness

This module covers information necessary in recognizing the special hazards associated with confined spaces. The guide discusses the characteristics of confined spaces including; hazardous atmospheres, pre-entry and periodic testing, continuous monitoring and the laws that protect workers working in confined spaces. Handouts for classroom exercises are included. The module also has an Instructor Guide and contains 7 exercises dealing with special hazards associated with working in confined spaces and ways to recognize them and staying safe.

Module length: 3 hours

Gravity Flow Piping Systems

The Gravity Flow Pipe Systems module is intended to provide the participants with a basic understanding these systems, their different parts, and how to they transfer and clean waste and water. The guide discusses these systems are built, tested and repaired safely. The module also has an Instructor Guide and consists of 8 exercises that provide classroom and hands-on instruction.

Module length: 10 - 12 hours

Hand Signaling

The Hand Signaling module covers information regarding the important responsibilities of hand signal personnel and the most commonly used hand signal

nals. The guide discusses situations that warrant the use of hand signals, methods of communication with the operator and essential safety practices and their importance. Handouts for classroom and hands-on exercises are included. The module also has an Instructor Guide and contains 6 exercises dealing with practical applications of hand signaling on a job site and the responsibility that goes with it.

Module length: 8 hours

Hoisting & Rigging Basics

The Hoisting and Rigging Basics module covers information regarding the important responsibilities of hand signal personnel and the most commonly used hand signals. The guide discusses situations that warrant the use of hand signals, methods of communication with the operator and essential safety practices and their importance. Handouts for classroom and hands-on exercises are included. The module also has an Instructor Guide and contains 5 exercises dealing with how to work safely around cranes and during lifts and how to handle and inspect loads, slings, and rigging hardware to ensure a safe working environment.

Module length: 3.5 hours

Math for Pipelayers

The Math for Pipelayers module provides the participants with information regarding the calculations that often have to be made as pipe is being laid. The guide discusses how to make such calculations and their proper application in relationship to determining the slope of trenches, the rise or fall of pipes to be installed and the amount of cut or fill needed. The module also has an Instructor Guide and contains 18 classroom and hands-on activities that are designed to increase knowledge and ability of the math involved in pipelaying.

Module length: 9.5 hours

OSHA 29 CFR 1926.650 (Subpart P Regulations)

This module contains all of the updated OSHA requirements that provide methods for protecting workers against cave-ins. It also describes other safety practices that should be employed when working around trenches and excavations.

Module length: N/A

Polyethylene Pipe Fusion

The Polyethylene Pipe Fusion module specifically focuses the participant's attention on fusing together PE pipe. Also discussed in the module is the fusion machine, the fusion process, and safety precautions as well as a demonstration on proper fusion procedures. The module also has an Instructor Guide and contains 4 classroom and hands-on activities that include discussion like safety hazards and maintenance procedures for the pipe fusion machine.

Module length: 6 hours

Pressure Pipelaying Techniques

The Pressure Pipelaying Technique module discusses the basics of pressure pipelaying techniques, how to test the pipe systems, how to repair them and how to do it safely as part of a crew. Participants will be given an introduction Pressure Pipe Systems and practice will practice techniques associated with installing pressure pipe. The module also has an Instructor Guide and contains 6 classroom and hands-on activities highlight the different roles on a pipe crew.

Module length: 12 hours

Tapping Water Mains

The Tapping Water Mains module discusses how to use the Mueller B-101 Tapping Machine to drill and tap a Ductile Iron water main. Hands-on activities will allow participants to practice setting up, using and maintaining the machine. The module also has an Instructor Guide and contains 8 classroom and hands-on activ-

ities highlight tasks including procedures for direct tapping and the assembling of a water service connection.

Module length: 7 - 9 hours

Trench and Excavation Safety

The Trench and Excavation Safety participants will focus on standards for building protective systems in trenches and excavations. Participants will also discuss how to install different kinds of protective systems to protect themselves and others in the event that trenches or excavations cave in. The module also has an Instructor Guide and contains 7 classroom and hands-on activities that highlight OSHA standards for Trench and Excavation Safety.

Module length: 12 hours

Utility Locating Programs

The Utility Locating Programs introduces participants how to dig safely when excavating around underground electrical lines, communications systems, water supplies and gas lines. Participants will also discuss protocols for locating and marking underground utilities that will prevent accidents and unnecessary damage. The module also has an Instructor Guide and contains 3 exercises that ensure that the participants are prepared to "dig safe".

Module length: 2 hours

PIPELINE SAFETY

The Pipeline Safety Course covers Safety and Health for various covered tasks performed on a pipeline job. This course has become mandatory for any Laborer who performs work on a pipeline job who has no previous experience.

- Introduction to pipeline work
- Health and Safety on a pipeline job
- Coating maintenance
- Right of way setup

EXPANDED OPERATOR QUALIFICATION FOR THE PIPELINE INDUSTRY

As of October 28, 2002, any person performing tasks on a pipeline job must be operator qualified for every task performed as required by DOT 49 CFR Parts 192, & 195. This course is a preparatory course that will instruct Laborers through classroom and Hands-on training so they may pass the operators' tests related to each of the tasks for Laborers on a pipeline project. Currently, the Laborers perform approximately 12 tasks on a pipeline project, and the operators in the New England region require 2 of their own modules be covered within the curriculum.

Course length: 40 - 80 hours Topics covered:

- Plastic Gas Line Butt Fusion
- Mechanical Fittings
- Coating Maintenance
- Pipe Preparation
- Excavation Standards
- Properties of Natural Gas
- Abnormal Operating Conditions on a pipeline project

PLASMA ARC CUTTING

The Plasma Arc Cutting manual covers the skills and knowledge necessary to operate plasma arc torches, which use extremely high temperatures. Protection the operator, other workers, property, and equipment from the heat, sparks, and molten metal associated with plasma arc cutting are detailed.

Course length: 16 hours Topics covered:

- Plasma Arc Fundamentals
- Health Effects
- Personal Protective Equipment
- Physical and Safety Hazard
- Machine Setup
- Torch Assembly
- Controls and Operation

PROCESS SAFETY MANAGEMENT OF HIGHLY HAZARDOUS CHEMICALS

The Process Safety Management (PSM) of Highly Hazardous Chemicals manual is designed for Construction Craft Laborers who work in refineries or other covered process facilities, such as petro-chemical and chemical processing plants. The manual is part of a program that allows participants to obtain a PSM certificate of completion in order to work in process facilities. The manual provides information on the hazards found on the job site, as well as other safety and health information.

Course length: 10 hours Topics covered:

- Introduction to OSHA
- Process Safety Management
- Hazard Communication
- General Plan Rules
- Personal Protective Equipment
- Lockout/Tagout
- Confined Space Awareness
- PSM-Related OSHA Topics

RADIOLOGICAL WORKER II

The Radiological Worker II manual addresses the hazards involved in the cleanup of Radiologically contaminated waste sites and those in radiological control areas. There are seven topics in the manual related to the theory, basic radiological fundamentals, and the terms Construction Craft Laborers must know to work safely around radiological hazards.

Course length: 24 hours Topics covered:

- Radiological Fundamentals
- Biological Effects
- Radiation Limits
- ALARA Program
- Personal Protective Equipment
- Radiological Posting and Controls
- Radiological Emergencies

RESPIRATORY PROTECTION

The Respiratory Protection manual details the correct use of the respirators when there may be hazardous substances present. Exposure guides, the variety of respirators and their proper use and respirator program requirements are also covered. This manual is also available in Polish and Spanish.

Course length: 4 hours Topics covered:

- Hazard Recognition and Health Effects
- Respirators
- Respirator Program Requirements
- Standard Operating Procedures
- Regulations

SAFETY AND HEALTH PROGRAMS FOR SMALL BUSINESSES

The Safety and Health Programs for Small Businesses manual provides details on developing effective safety and health programs in the construction industry.

Course length: 8 hours Topics covered:

- Overview of OSHA
- Management Commitment and Employee Involvement
- Assignment of Responsibility and Accountability
- Identification and Control of Hazards
- Safety and Health Training
- Recordkeeping and Hazard Analysis
- OSHA General Safety and Health Provisions
- Assistance in Safety and Health

SCAFFOLD BUILDER

The Scaffold Builder manual contains the Scaffold User manual and adds an indepth look at the scaffold systems that are available and commonly used in the construction industry. The manual is part of a program that fulfills OSHA scaffold builder and user training requirements for 29 CFR 1926.454. This manual is also available in Polish and Spanish.

Course length: 24 hours Topics covered:

- Introduction to Scaffolds
- Summary of OSHA Standards
- General Ladder Requirements
- Fall Protection for General Construction
- Electrical
- Loading Scaffolds
- Adjustable Masonry Scaffold Non-Stop

- Assembly
- Adjustable Masonry Scaffold Morgan
- Preparing to Build Frame Scaffold

SCAFFOLD USER

The Scaffold User manual is part of a program that fulfills OSHA scaffold training requirements for 29 CFR 1926.454. The manual details how a scaffold works, overviews safety hazards, and describes measures that the employer must take to protect employees. Applicable OSHA standards also are included.

Course length: 16 hours Topics covered:

- Introduction to Scaffolds
- Summary of OSHA Standards
- General Ladder Requirements
- Fall Protection for General Construction
- Flectrical
- Loading Scaffolds

SILICA AWARENESS

The Silica Awareness manual covers the hazards and work activities of jobs involving silica exposure such as building and/ or bridge demolition. OSHA standards that apply to workers exposed to silica also are included.

Course length: 8 hours Topics covered:

- Silica and Its Uses
- Health Effects of Silica
- Medical Surveillance
- OSHA Special Emphasis Program for Silica
- Silica Control Measures

SUPERVISOR TRAINING AND EDUCATION PROGRAM (New Format)

Communication for Construction Supervisors

The Communication for Construction Supervisors participant guide covers the critical skills that a Laborer must have to be an effective Supervisor. This guide discusses speaking, listening, and writing in the context that a Construction Supervisor uses them. Worksheets for class exercises are included. An Instructor Guide is

Course length: 10 hours Topics covered:

- Speaking Skills
- Listening Skills
- Writing Skills

Introduction to Construction Supervision

The Introduction to Construction Supervision introduces participants to the general duties and responsibilities associated with the role of the project supervisor. The different roles project supervisors play on a project, including their pre-job responsibilities, their role in managing the project, and their general responsibilities for ensuring that the project is completed safely, on time, and within budget are covered. In addition the course covers the interpersonal skills that supervisors must possess to serve as effective leaders. An Instructor Guide plus Blueprints and Specifications for the interactive exercises for each module are also available.

Course length: 24 hours Topics covered:

- Pre-Job Responsibilities
- Managing the Project
- General Responsibilities

Introduction to Project Estimating

The Introduction to Project Estimating manual introduces participants to the process of estimating construction projects. An overview of estimating the amount and costs of materials and labor, the type and cost of equipment, markup and project overhead, and the bidding process is given. An Instructor Guide plus Blueprints and Specifications for interactive exercises for each module are also available.

Course length: 40 hours Topics covered:

- Introduction to Project Estimating
- Quantity Take-offs and Material Pricing
- Labor and Equipment Costs
- Estimating Software

<u>Project Planning and Management for</u> <u>Construction Supervisors</u>

The Project Planning and Management for Construction Supervisors participant guide is an introduction to the tasks invovled in both project planning and project management. Project analysis, site planning, creating schedules (including bar charts and CPM), purchase orders, and cost reports are covered. An Instructor Guide is also available.

Course length: 28 hours Topics covered:

- Project Planning
- Project Scheduling
- Project Procurement and Management

Safety and Health for Construction Supervisors

The Safety and Health for Construction Supervisors introduces and overviews the safety and health issues that are critical factors in bringing a construction project to completion on time and under budget. The manual discusses the main causes of fatalities in construction and how a supervisor can be both proactive and reactive with respect to safety. Planning safety into the job, OSHA issues for supervisors, and communicating safety are also covered. An Instructor Guide is also available.

Course length: 40 hours Topics covered:

- Safety Skills for Supervisors
- Planning for Safety and Health
- OSHA
- Communicating Safety

UNDERGROUND STORAGE TANK REMOVAL

The Underground Storage Tank (UST) Removal manual covers the procedures involved in the cleanup of USTs. Specific information on UST removal and closure is provided. Emphasis is placed on the use of air monitoring instruments, bonding and grounding, purging and inerting, and safe confined space work practices. Applicable OSHA standards also are included.

Course length: 24 hours Topics covered:

- Introduction to Underground Storage Tanks
- Health and Physical Hazards
- Personal Protective Equipment
- Workplace Monitoring
- Permit-Required Confined Spaces
- Initial Response amd Site Preparation
- Tank Preparation
- Tank Closure

WELDING

The New England Laborers' Training Trust Fund has become an educational member of the American Welding Society. We are now proudly offering our members "Welding." This course is designed to familiarize the student with techniques used to produce flat, horizontal, vertical and overhead beads.

At the end of the class each student is given the opportunity to pass a test plate and receive an A.W.S. D1.1 certification. Members who already have some welding experience, or have already completed their D1.1 certification are also welcome to join. The Massachusetts Department of Transportation will be on site to offer D1.5 bridge certification. This surpasses the qualifications of the standard skilled welder.

Those who pass will receive their certifications by mail within 2-3 weeks. Those who fail will have the opportunity to take the class again. Classes will be listed online, and sent to the individual union halls. You must contact your business agent to enter a class. Respect, patience, and the desire to be educated are required.



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