

Electrical Workplace Safety (Version 2)
Lead in Construction; Trenches and Excavations
Wisconsin Department of Safety and Professional Services
Course Identification Number 14134
Expiration Date: 11/5/2025
Credit Hours: 7 Hours

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Course Type: Continuing Education

ELECTRICAL WORKPLACE SAFETY

This course was developed for persons working in the electrical field who are exposed to a variety of workplace hazards. OSHA has developed extensive materials to reduce the incidents of work related accidents and workers should be aware of basic workplace safety practices. This course is an overview of the OSHA rules in regards to worker safety with an emphasis on more current issues such as Lead in Construction; and Trenching and Excavations practices which are required by OSHA.

Outline of Course

Lead In Construction

- OSHA Introduction
 - Health Hazards of Lead Exposure
 - Symptoms of Chronic Overexposure
- Reproductive Risks
- Chelating Agents
- Worker Exposure

- Construction Workers and Lead Exposure
 - Most Vulnerable Workers
 - OSHA's Lead Standard
 - Exposure Limits
 - Applicability to Construction

- Employer Responsibilities
 - Elements of a Compliance Program
 - Initial Employee Exposure Assessment

- Biological Monitoring Tests
- Pending Employee Exposure Assessment
- Test Results Showing No Overexposures
- Employee Notification of Monitoring Results

Medical Exams

- Medical Surveillance
- Information for the Examining Physician
- When Monitoring Shows No Employee Exposures
- After the Medical Examinations
- Medical Removal Provisions

Worker Protections and Benefits

- Records Requirements Involving Medical Removal

Recordkeeping

- Employer Requirements
- Exposure Assessment Records
- Medical Surveillance Records
- Documents for Employees Subject to Medical Removal
- Employer Requirements Related to Objective Data
- Documents for OSHA and NOISH Review
- When Closing a Business

Exposure Reduction and Employee Protection

- Engineering Controls
- Exhaust Ventilation
- Enclosure or Encapsulation
- Substitution
- Component Replacement
- Process or Equipment Modification
- Isolation

Housekeeping Practices

- Personal Hygiene Practices
- Change Areas
- Showers and Washing Facilities
- Personal Practices
- End-Of-Day Procedures

Protective Clothing and Equipment

- Employer Requirements
- Handling Contaminated Protective Clothing
- Preventing Heat Stress
- Respiratory Protection

- Providing Adequate Respiratory Protection
- Respiratory Protection Programs
- Selecting a Respirator

- Employee Information and Training
 - Program Requirements
 - Warning Signs

- OSHA Assistance, Services and Products
 - State Programs
- Consultation Assistance
- Safety and Health Achievement Recognition Program
- Voluntary Protection Programs
- Cooperative Partnerships
- Alliance Program
- Strategic Partnership Program
- Occupational Safety and Health Training
 - Training Grants
 - Other Assistance Materials
- In Case of an Emergency Or To File A Complaint
 - OSHA Regional Offices
 - Blood Lead Laboratories-Wisconsin

Trenches and Excavations

- Working Safely in Trenches
 - Dangers of Trenching and Evacuation
 - Protect Yourself
 - Protective Systems
 - Competent Person
 - Access and Egress
 - General Trenching and Excavation Rules

- Excavations
 - Introduction
 - Difference between Excavation and Trench
 - Dangers
 - OSHA Standard Rule
 - Exemptions

- Preplanning
 - Why is it important?
 - Utility Lines and Pipes
 - Informing Workers

Protective Systems

- Preventing Cave-ins
- Most appropriate Protective System Design
- Other Safety Precautions
- Installation and Removal of Protective Systems

Additional Hazards and Protections

- Warning Systems
- Water Accumulation
- Hazardous Atmospheres
- Means of Egress
- Pier Holes
- Site Inspection

OSHA Assistance, Services and Programs

- State Plans
 - Consultation Assistance
 - Privacy
 - Cost
 - Violations
 - Voluntary Protection Programs
 - Strategic Partnership Program
- OSHA Training for Employers and Employees
 - Training Grants
- Contact OSHA

Exam

80 Questions related to the Reference Materials are used to test the attendee on their comprehension of the materials. A 70% score will need to be attained in order to pass this course.