

SPS 382

Wisconsin Department of Safety and Professional Services

Course Identification Number 13908

Expiration Date: 08/29/2025

Credit Hours: 12 to 3 [See List Below]

Course Provider:

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This course has been approved for the following licenses, registrations or certifications:

Commercial Plumbing Inspector	12 Hours
UDC- Plumbing Inspector	12 Hours
Master Plumber	12 Hours
Journeyman Plumber	12 Hours
Master Plumber-Restricted Appliance	9 Hours
Journeyman Plumber-Restricted Appliance	9 Hours
Master Plumber-Restricted Service	3 Hours
Journeyman Plumber-Restricted Service	3 Hours
Utility Contractor	3 Hours

This course is broken out into three sections and is intended to familiarize those involved in the plumbing trades with the current codes and regulations:

1. Plumbing Design, Construction and Installation (SPS 382)
Review of the current plumbing codes.
2. Lead in Construction (OSHA)
Overview of the OSHA Lead Standards for construction.
3. Trenching and Excavations (OSHA)
Overview of the OSHA Trenching and Excavation Rule.

Outline of Course

SPS 382 Design, Construction and Installation

Scope

Intent and Basic Requirements
Administration and Enforcement
Drain and Vent Systems

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

200 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.