

**Prerequisites:** This course shall have no formal pre-requisite.

**Course Length:** 6-8 hours – Course length shall vary depending on the number of delegates. Total course time includes breaks.

**Class Size:** The maximum number of delegates that may be trained and tested per instructor shall be thirty-five (35) in the classroom session and twenty (20) in the practical session. A second instructor is added for the practical session once the participation exceeds twenty (20).

### Course Objective

- Provide delegates assigned to work on or around scaffolds the necessary skills to safely perform their jobs.
- Provide delegates with recommended practices and guidelines to perform safely while working with scaffolds.
- Delegates should be able to demonstrate the necessary skills during practical examination and demonstrate knowledge during written examination.

### Course Design

- Power Point© / Lecture / Audio Video / Visual Aids
- Practical Exercises

### Successful Course Completion

- Requires a minimum score of 75% or better.
- Grades shall be calculated by dividing the number of questions answered correctly by the total number of exam questions.
- Delegates will have no more than thirty (30) minutes to complete the exam.
- Successful completion of practical session is mandatory.

### Course Content Summary

- Classroom
- Practicals

**Breaks:** 10 minutes (approximately every hour)

**Lunch:** 1 Hour

### Course Outline

About Scaffolds

- Scaffold Regulations
- Competent Person Definition

- Scaffold Training Elements
- Tagging System
  - Green Tags
  - Yellow Tags
  - Red Tags
- Common Scaffold Types
  - Tube and Clamp Scaffold
  - System Scaffold
  - Rolling Tower Scaffold
  - Frame Scaffold
- Basic Scaffold Components
  - Mud Sills
  - Screw Jacks
  - Vertical Post
  - Support Structure
    - Runners
    - Bearers
    - Diagonal Braces
    - Clamps
  - Working Area
    - Guardrail System, planks and platforms, ladders
- Safe Access to a Scaffold
- Scaffold Classification
  - Light Duty
  - Medium Duty
  - Heavy Duty
- Scaffold Load Capacity Calculation Example

#### Scaffold Requirements

- Scaffold Platform
  - Plank Requirements
    - Metal
    - Wood
  - Securing Planks
  - Plank Loading
  - Wood Plank
    - Labeling/Usage
    - Allowable Spans
    - Intended Load
    - Integrity
      - Allowable Knots
      - Allowable Splits

- Deformations
  - Warp Table Example

#### Fall Protection

- Guardrail System Requirements
  - Top Rail
  - Mid Rail
  - Toe Boards
  - Vertical Supports
- Personal Fall Arrest System Requirements
  - Harness
  - Lanyard
  - Anchor Point
    - Vertical Life Lines
    - Horizontal Life Lines
- Falling Objects

#### Scaffold Construction

- Scaffold Erection/Dismantling
  - Competent Person Requirements
  - Safe Access
  - Material Handling
    - Use of rope to lift/lower material/tools
    - Proper knot security
      - Tubulars
      - Planks
      - Tools, etc...
  - Barricading Work Area

#### Scaffold Safety

- Personal Protective Equipment (PPE)
- General Safety
- Ladder Safety
- Welding Safety
- Scaffold Security
  - Rolling Scaffolds
  - Securing Scaffolds to Solid Structures
  - Wind Force Example
- Electrical Safety
- Scaffold Inspection
  - Review Inspection Criteria

**Practical Session**

Practical training shall utilize 1 tier (at minimum) of scaffolding similar to the type the employee will utilize in the field.

Practical shall verify the following:

- Select and wear appropriate PPE during practical training
- Perform proper pre-use inspection of Scaffold and equipment
- Remove scaffold and associated tools/equipment from service if it is unsafe
- Identify hazards associated with scaffolds
- React to unusual or emergency situations
- Understand proper use of tools and equipment
- Move material in a safe manner
- Utilize proper fall protection
- Determine safe scaffold platform capacity
- Safely erect and dismantle scaffold
- Secure materials for raising/lowering (rope knot application and usage)
- Access/egress from scaffold properly

**Training Center Provided Material**

- PPE
- Scaffold
- Tools

**Delegate Requirements**

- None

**Reference Material / Documents**

OSHA 29 CFR 1926 Subpart L