Scaffold Competent Person/Builder

Course Outline

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