

ATIN-2010: SCAFFOLDING

Cuyahoga Community College

Viewing: ATIN-2010 : Scaffolding

Board of Trustees:

October 2024

Academic Term:

Spring 2025

Subject Code

ATIN - Applied Industrial Technology - Insulators

Course Number:

2010

Title:

Scaffolding

Catalog Description:

Develop a more detailed understanding on the topic of Scaffolding initially covered in OSHA 10.

Credit Hour(s):

1

Lecture Hour(s):

1

Requisites

Prerequisite and Corequisite

Departmental approval: admission to Heat and Frost Insulator's apprenticeship program.

Outcomes

Course Outcome(s):

Utilize OSHA standards to apply the proper construction and work on scaffolds.

Objective(s):

1. Differentiate the three main types of scaffolds.
2. Analyze the safe construction of scaffolds on site.
3. Inspect scaffolds for continuous safety.
4. Determine best practices for working safely on scaffold systems.

Course Outcome(s):

Utilize OSHA standards for proper use of Aerial lifts.

Objective(s):

1. Differentiate types of aerial lifts.
2. Examine differences in lift controls.
3. Select required and recommended personal protective equipment (PPE).
4. Perform safe maneuvers in lifts.

Methods of Evaluation:

1. Quizzes from International
2. Tests from International

3. Final exam from International
4. Homework worksheets

Course Content Outline:

1. Types of Scaffolds
 - a. Supported
 - b. Suspended
 - c. Aerial Lifts
2. Common Hazards
 - a. Tips
 - b. Falls
 - c. Access
 - d. Electrocution
 - e. Material Handling
3. Scaffold Construction
 - a. Supported
 - b. Standard Tube
 - c. Adjustable
 - d. Tube and Clamp
4. Scaffold Inspection
 - a. Inspection points
 - b. Inspection frequencies
 - c. Haz Com
5. Aerial Lifts
 - a. Scissor Lifts
 - b. Boom Lifts
 - c. Articulating Lifts
6. Common Hazards
 - a. Falls
 - b. Crashes
 - c. Electrocution
 - d. Overloading
 - e. Fires
 - f. Rescues
7. Lift operation
 - a. PPE
 - b. Inspections
 - c. Different controls per lift
 - d. Load restrictions
 - e. Proper Storage

Resources Other

29 CFR 1926.454 Subpart L, OSHA. 2024

1. Scaffold User Student Manual
2. Various Operator Aerial Lift Manuals.
 - a. www.sunbeltrentals.com (<http://www.sunbeltrentals.com>) 2024.
 - b. www.JLG.com (<http://www.JLG.com>) 2024.
 - c. www.ohrrents.com (<http://www.ohrrents.com>) 2024.

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