

ATCT-2361: SUSPENDED CEILINGS

Cuyahoga Community College

Viewing: ATCT-2361 : Suspended Ceilings

Board of Trustees:

May 2024

Academic Term:

Fall 2024

Subject Code

ATCT - Appld Indus Tech - Carpentry

Course Number:

2361

Title:

Suspended Ceilings

Catalog Description:

Skills and techniques required to install a variety of suspended ceiling systems. Includes identification and correct use of tools, reading blueprints, and focus on suspended grid systems.

Credit Hour(s):

2

Lecture Hour(s):

2

Requisites

Prerequisite and Corequisite

ATCT-1351 Metal Studs and Dry Walls or departmental approval.

Outcomes

Course Outcome(s):

Interpret drawings for information pertaining to the installation of suspended ceilings.

Objective(s):

1. Recognize symbols pertaining to suspended ceilings.
2. Read scale references.

Course Outcome(s):

Install suspended ceilings using proper tools, techniques, and safety procedures, in accordance with jobsite specifications and industry standards.

Objective(s):

1. Demonstrate proper erection and use of scaffolding according to OSHA guidelines.
2. Identify and select proper tools for specific tasks related to the construction and installation of suspended ceilings.
3. Discuss the functions and advantages of a suspended ceiling system.
4. Install suspended ceilings systems applying industry standards.
5. Identify components of suspended ceiling systems.
6. Construct suspended ceiling systems.
7. Explain proper safety considerations for installation of suspended ceiling systems.
8. Demonstrate safe use of hand and power tools in accordance with OSHA guidelines.

Methods of Evaluation:

1. Quizzes
2. Exams
3. Classroom Participation
4. Completion of assigned projects

Course Content Outline:

1. Concepts
 - a. Functions of suspended ceiling systems
 - i. sound attenuation
 - ii. lighting
 - iii. ventilation
 - iv. access to ductwork and mechanical equipment
 - v. fire rated systems
 - b. Industry standards for suspended ceiling systems
 - c. Suspended ceilings system installation techniques
 - d. Ventilation requirements
 - e. Lighting installation techniques
 - f. Proper tool and equipment usage
 - g. Safe use of hand and power tools
 - h. OSHA guidelines for mobile scaffolding
 - i. Blueprint symbols
 - j. Scale
 - k. Reflected ceiling plans
 - l. Terminology
2. Skills
 - a. Erecting and use scaffolding in accordance to OSHA standards
 - b. Installing and use of laser equipment
 - c. Interpreting blueprint for ceiling installation
 - d. Installing various suspended ceiling systems applying to industry standards
 - e. Using aviation and bull snips
 - f. Using clamping piers
 - g. Using awl
 - h. Using honing stone
 - i. Using lather nippers
 - j. Using nail set
 - k. Using plumb bob
 - l. Using scribes
 - m. Using folding rule
 - n. Using straight edge
 - o. Operating electric drill
 - p. Operating pop rivet gun
 - q. Operating fastening tools
 - r. Using water level
3. Issues
 - a. Safety factors associated with the use of stilts
 - b. Scrapping and salvaging of materials

Resources

Carpenters International Training Fund. *Acoustical Ceilings* . 2nd Edition. Las Vegas, NV: Carpenters International Training Fund, 2018.

Clark, Ray. Commercial Metal Stud Framing. Carlsbad: Craftsman Book Company, 1999.

Koel, Leonard. *Carpentry*. 7th ed. Homewood IL: American Technical Publishers, 2021.

Principles of Productive Metal Framing. Las Vegas, NV: Carpenters International Training Fund, 2021.

Occupational Safety and Health Administration, United States Department of Labor. *Code of Federal Regulations 1926*. National Safety Compliance, 2022.

Resources Other

Carpenter's International Training Fund. <https://www.carpenters.org/citf-training/>.2024

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