

ATCT-1381: WOOD FRAMING

Cuyahoga Community College

Viewing: ATCT-1381 : Wood Framing

Board of Trustees:

May 2024

Academic Term:

Fall 2024

Subject Code

ATCT - Appld Indus Tech - Carpentry

Course Number:

1381

Title:

Wood Framing

Catalog Description:

Introduction to basic principles of framing, including terminology, print information, design, codes and systems.

Credit Hour(s):

2

Lecture Hour(s):

2

Requisites

Prerequisite and Corequisite

Departmental approval: admission to any Applied Industrial Technology program.

Outcomes

Course Outcome(s):

Layout and install various wood floor and wall framing systems in accordance with applicable building codes, jobsite specifications, and OSHA regulations.

Objective(s):

1. Define wood framing terminology.
2. Layout floor and wall framing systems according to blueprints.
3. Identify applicable building codes.
4. Describe applicable OSHA regulations.
5. Install wood floor and framing systems according to blueprints.
6. Differentiate between single floor systems and double floor systems.

Course Outcome(s):

Interpret blueprints for floor and wall framing information.

Objective(s):

1. Recognize blueprint symbols and references.
 2. Identify correct scale for specific blueprints.
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Methods of Evaluation:

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

Course Content Outline:

1. Concepts
 - a. Floor and wall construction building codes.
 - b. Blueprint reading techniques
 - c. Wood framing terminology
 - d. Floor framing techniques
 - e. Wall framing techniques
 - f. Subfloor panel installation techniques
 - g. Single floor system design
 - h. Double floor system design
 - i. Wall frame designs
 - j. Wall and floor layout techniques
2. Skills
 - a. Laying out wood floor systems.
 - b. Laying out wood wall systems.
 - c. Framing floor on mudsills using steel posts and girders.
 - d. Framing floor joists on center spacing.
 - e. Framing floor joists to support interior bearing walls.
 - f. Framing double joists.
 - g. Framing cantilevered joists.
 - h. Framing joist bridging.
 - i. Framing stair openings
 - j. Installing subfloor panels.
 - k. Installing single floor systems.
 - l. Using power tools and air nailers safely.
 - m. Installing double floor systems.
 - n. Framing floor with engineered joist systems.
 - o. Framing walls.
 - p. Installing studs and plates.
 - q. Framing corners and partition backers.
 - r. Framing door and window openings.
 - s. Framing blocking and backing.
3. Issues
 - a. Complying with various building codes by differing cities, counties, and states.
 - b. Safety
 - c. Scrapping and salvaging materials

Resources

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

Thallon, Rob. *Graphic Guide to Frame Construction*. 5th ed. Newtown: Taunton Press, 2024.

Carpenters International Training Fund. *Decks and Walls Manual*. Las Vegas, NV: Carpenters International Training Fund, 2017.

Key: 259