

ATCT-2560: INTERIOR SYSTEMS III

Cuyahoga Community College

Viewing: ATCT-2560 : Interior Systems III

Board of Trustees:

May 2024

Academic Term:

Fall 2024

Subject Code

ATCT - Appld Indus Tech - Carpentry

Course Number:

2560

Title:

Interior Systems III

Catalog Description:

In depth study of interior systems including barrel and dome ceilings and commercial door hardware used in the construction industry. Topics include use of specific tools and machining techniques required to install doors and door hardware, frames, exit devices, and associated items. Applicable math concepts, door and hardware schedules; and safety practices as prescribed by OSHA also included. Extensive guided instruction and practice provided.

Credit Hour(s):

2

Lecture Hour(s):

2

Requisites

Prerequisite and Corequisite

ATCT-2361 Suspended Ceilings or departmental approval.

Outcomes

Course Outcome(s):

Install various types of exit devices by using appropriate materials, hand and power tools, and applying techniques and OSHA safety standards.

Objective(s):

1. Identify and install different doors, door frames, and hardware types for various installations.
2. Demonstrate proper use of various hand and power tools required for preparing, machining, and installing doors and door frames to receive commercial hardware.
3. Determine correct hinge requirements for respective door applications.
4. Install various door closers for specific applications.
5. Identify and install various types of exit devices.
6. Interpret door and hardware schedules.

Course Outcome(s):

Layout, measure, and construct barrel and dome ceilings using correct materials, tools, techniques, and OSHA safety procedures.

Objective(s):

1. Construct a barrel ceiling.
 2. Construct a dome ceiling.
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Methods of Evaluation:

1. Quizzes
2. Exams
3. Classroom participation
4. Demonstration of assigned project

Course Content Outline:

1. Concepts
 - a. Types of doors including solid core wood, steel, double egress, glass, and fire.
 - b. Types of frames including welded, knock down, wood and aluminum.
 - c. Types of hardware used in interior systems including lock sets, hinges, closers.
 - d. Specialty hardware including coordinators, astrogals, thresholds, and weather stripping.
2. Skills
 - a. Machining techniques to install door bevels and hinge gains.
 - b. Use of tools for installation including hand drill and tap, power planer, templates, bits and bushings.
 - c. Install and adjust various types of doors and door hinges.
 - d. Install and adjust various types of door closers.
 - e. Install exit hardware including rim devices, concealed rod, exposed rod, and other miscellaneous devices.
 - f. Install and brace barrel ceilings using geometric layout, angular measure, and arc lengths.
 - g. Install and brace dome ceilings using geometric layout, angular measure, and arc lengths.
3. Issues
 - a. Use of door and hardware schedules.
 - b. Proper safety procedures as prescribed by OSHA.

Resources

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

Smith, William. *Door and Finish Hardware*. Las Vegas, NV: United Brotherhood of Carpenters, 2002.

Tolpin, Jim. *Finish Carpenters Manual*. Homewood, Ill: American Technical Publishing, 1993.

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

Resources Other

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

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