

ATFL-1600: MODULAR TILE

Cuyahoga Community College

Viewing: ATFL-1600 : Modular Tile

Board of Trustees:

September 2025

Academic Term:

Fall 2025

Subject Code

ATFL - Appld Indus Tech - Floorlaying

Course Number:

1600

Title:

Modular Tile

Catalog Description:

Basics of modular tile installation. Includes math and geometry concepts required for estimating materials, room layouts and interpreting construction drawings.

Credit Hour(s):

2

Lecture Hour(s):

2

Requisites

Prerequisite and Corequisite

ATFL-1450 Floorlaying Concepts, or departmental approval: Admissions to Floorlaying Technology apprenticeship program.

Outcomes

Course Outcome(s):

Select tool, prepare floor, install, and finish modular tile products in accordance with industry standards, jobsite specifications, and established safety requirements.

Objective(s):

1. Prepare any subsurface to receive modular tile.
2. Select the correct trowel for the respective adhesive.
3. Distinguish various modular tiles and adhesives, explain uses and compatibility.
4. Apply established layouts to the installation in accordance with construction specifications.
5. Install any modular tile system.
6. Install vinyl and rubber base trims.
7. Explain safety requirements for the installation of modular tile products.
8. Demonstrate safe use of hand and power tools and material handling used for modular tile installation.

Course Outcome(s):

Estimate materials based on jobsite specifications.

Objective(s):

1. Read blueprints for job site specifications.
2. Calculate perimeter, square yardage and area based on blueprint specifications.

Methods of Evaluation:

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

Course Content Outline:

1. Concepts
 - a. Modular tiles and related manufacturing process
 - b. Math concepts for estimating material requirements
 - c. Blueprint reading
 - d. Cutting and trimming tools used in modular tile installations
 - e. Finish transitions
 - f. Moisture testing techniques
 - g. Subfloor requirements
 - h. Modular tile installation techniques
 - i. Base and trim installation techniques
 - j. Adhesive uses
 - k. Tile/adhesive compatibility
 - l. Established layouts
 - m. Subsurface preparation procedures
 - n. Area calculations
 - o. Square yardage calculations
 - p. Measurement conversions
2. Skills
 - a. Reading blueprints for room location, color and tile pattern.
 - b. Estimating material requirements-square footage, lineal footage-rubber base.
 - c. Calculating perimeter area for any borders.
 - d. Preparing subfloor.
 - e. Laying out guidelines for installing and applying adhesive recommended.
 - f. Installing material and cut in.
 - g. Installing any trims applicable.
3. Issues
 - a. Safety
 - b. Scrapping/salvaging material

Resources

Carpenters International Training Fund. *Standard Skills for Floor Coverers: Part 1*. Carpenters International Training Fund, Las Vegas, NV, 2012.

Carpenters International Training Fund. *Carpet 1*. Carpenters International Training Fund, Las Vegas, NV, 2010.

Carpenters International Training Fund. *Resilient 1*. Carpenters International Training Fund, Las Vegas, NV, 2012.

T=2023 TCNA Handbook for Ceramic, Glass, and Stone Tile Installation. Anderson, SC: TCNA, 2023.

Resources Other

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

TCNA. <https://tcnatile.com/product-category/publications/>, 2024

Key: 330