

# ATFL-1620: CERAMICS I

## Cuyahoga Community College

**Viewing: ATFL-1620 : Ceramics I**

**Board of Trustees:**

May 2025

**Academic Term:**

Fall 2025

**Subject Code**

ATFL - Appld Indus Tech - Floorlaying

**Course Number:**

1620

**Title:**

Ceramics I

**Catalog Description:**

Wall and floor treatment, grouting and installation of ceramic tile. Includes related math and blueprint reading exercises.

**Credit Hour(s):**

2

**Lecture Hour(s):**

2

### Requisites

**Prerequisite and Corequisite**

ATFL-1610 Jute and Action Back Carpeting or concurrent enrollment, or departmental approval.

### Outcomes

**Course Outcome(s):**

Interpret construction drawings to determine jobsite specifications and estimate needed materials.

**Objective(s):**

1. Recognize symbols.
2. Interpret scale references.
3. Estimate materials based on square footage and perimeter measurements/specifications.

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**Course Outcome(s):**

Select appropriate materials, and prepare various sub surfaces for ceramic tile in accordance with jobsite specifications and established safety procedures.

**Objective(s):**

1. Demonstrate preparation of various sub-surfaces for ceramic tile.
2. Establish plumb, level, and starting position for installation.
3. Demonstrate use of proper adhesives for respective sub-surfaces.
4. Differentiate between various types of adhesives.

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**Course Outcome(s):**

Select appropriate materials, layout, cut, and install ceramic tile components in accordance with jobsite specifications and established safety procedures.

**Objective(s):**

1. Differentiate between various ceramic tile materials.
2. Identify hand and power tools used in installation.
3. Install components of ceramic tile.
4. Apply various grouts.
5. Demonstrate layout and installation for ceramic tile for special applications.
6. Select and apply correct grout for type of ceramic tile/components to be installed.
7. Demonstrate safe use of hand and power tools and material handling.

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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. Materials used in the ceramic tile industry
  - b. Hand tools used for ceramic tile
  - c. Tool safety related to the ceramic tile industry
  - d. Blueprint reading
  - e. Math concepts for estimating and laying out ceramic tiles
  - f. Sub-surface requirements.
  - g. Ceramic tile trims.
  - h. Sub-surface preparation techniques
  - i. Grout applications
  - j. Cleaning and polishing techniques
  - k. Grout selection procedures
  - l. Grout mixing procedures
  - m. Adhesive selection techniques
2. Skills
  - a. Reading blueprints for room location, color and pattern of materials.
  - b. Estimating square footage and perimeter for any trims.
  - c. Preparing sub surface as applicable including scraping and leveling.
  - d. Laying out, installing, and cutting in ceramic tile and trims as needed including measuring and aligning.
  - e. Choosing and applying correct grout for installation.
  - f. Cleaning and polishing.

**Resources**

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

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*2023 TCNA Handbook for Ceramic, Glass, and Stone Tile Installation*. TCNA, Anderson, SC, 2023.

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**Resources Other**

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

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