

ATFL-1620: CERAMICS I

Cuyahoga Community College

Viewing: ATFL-1620 : Ceramics I

Board of Trustees:

2006-11-20

Academic Term:

Spring 2019

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.

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.

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

Byrne, Michael. *Setting Ceramic Tile*. Newtown: Taunton Books and Videos, 1991.

U.S. Department of Housing and Urban Development. *Flooringcovering: Floor Tile And Sheet Vinyl*. Washington, D.C.: U.S. Department of Housing and Urban Development, Office of Housing, 1991.

Hilliard, Elizabeth. *Designing with Tiles*. New York: Abbeville Press, 1993.

Jahn, Bart. *Residential Construction Problem Solver*. New York: McGraw-Hill, 1998.
