

ATCM-2710: CONCRETE SPECIALTY PRODUCTS

Cuyahoga Community College

Viewing: ATCM-2710 : Concrete Specialty Products

Board of Trustees:

October 2020

Academic Term:

Fall 2021

Subject Code

ATCM - Appd Indus Tech-Cement Masonry

Course Number:

2710

Title:

Concrete Specialty Products

Catalog Description:

Study of specialty products and finishes for residential and commercial concrete. Includes decorative finishes and industrial finishes.

Credit Hour(s):

1

Lecture Hour(s):

1

Requisites

Prerequisite and Corequisite

Departmental approval: admission to Cement Mason's apprenticeship program.

Outcomes

Course Outcome(s):

Explain different specialty products and finishes and their applications and uses.

Objective(s):

1. Match terms and definitions associated with specialty finishes
2. Identify types of decorative concrete.
3. State characteristics of industrial finishes.
4. Discuss the operation of stamping tools.
5. Identify types chemicals used in decorative concrete.
6. Identify types of chemicals used in industrial applications.

Course Outcome(s):

Select and install different specialty products and finishes in accordance with job specifications.

Objective(s):

1. Check, level, and finish decorative concrete.
2. Check, level, and finish industrial concrete.

Methods of Evaluation:

1. All students will be evaluated during the first two weeks and mid-term. Progress reports will be issued per procedure. Additional course evaluations and final examination are detailed below:
 - a. Quizzes
 - b. Tests

- c. Class participation
- d. Homework

Course Content Outline:

1. Terms and definitions associated with decorative concrete
 - a. Birdbath
 - b. Forms
 - c. Fish eye
 - d. Honeycomb
2. Types of decorative concrete equipment
 - a. Stamps
 - i. Texture skins
 - ii. Pattern Stamps
 - b. Chemical Sprayers
3. Characteristics of a decorative concrete
 - a. Colored concrete
 - b. Release colors
 - c. Sealers
 - i. Matte
 - ii. Gloss
4. Characteristics of industrial specialty course
 - a. Toppings
 - b. Ground and polished concrete
 - c. Epoxy finishes
5. Types of Toppings
 - a. Trap rock
 - b. Emery
 - c. Metallic
6. Types of ground and polished concrete for industrial
 - a. Gloss level
 - b. Hardeners
7. Types of epoxy finishes for industrial applications
 - a. Neo-guard
 - b. Decorative broadcast system
 - c. Epoxy primers
 - d. Standard epoxy

Resources

"Recommendations for Construction of Concrete Pavements and Concrete Bases"

Resources Other

1. International Operative Plasters' and Cement Masonry's Association. <https://www.opcmia.org/training/> . 2017.
2. Concrete and Cement Masonry, Developed by the Curriculum and Instructional Materials Center for the Trade and Industrial Education Division Oklahoma Department of Career and Technology Education, 2002

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