

CMT 110 - INTRODUCTION TO 3D CONCRETE PRINTING

Course Description

This course will equip students with the knowledge and skills required for 3DCP construction printing using industry-recognized printing technologies. Participants will learn about materials, design, operation, and workforce development related to 3DCP home printing. Group 2 course.

Credit Hours

3

Contact Hours

3

Required Prerequisites

CAR 121, CAR 125

Course Learning Outcomes

Knowledge:

- Identify Equipment and Materials Used in the 3DCP Industry.
- Compare and contrast 3DCP to traditional methods and techniques.
- Explain the history of Concrete 3DCP Development.

Application:

- Identify Motion Systems used in 3DCP.
- Coordinate Systems Determined Locations.
- Identify Power systems required in 3DCP and Print heads utilized in 3DCP.

Integration:

- Identify Motion Systems used in 3DCP.
- Coordinate Systems Determined Locations.
- Identify Power systems required in 3DCP and Print heads utilized in 3DCP.

Human Dimension:

- Have confidence in understanding how 3DCP is incorporated into traditional building techniques.

Caring - Civic Learning:

- Preparing students for roles in construction printing. Job prospects in this emerging field. Development of soft skills.

Learning How to Learn:

- Recognize when more information is needed and seek help and resources.
- Identify personal learning preferences.
- Reflect on their ability to use their OSHA 10 Certification.