

Construction Technology – Level I & II

Certificates with Associate of Applied Science Option

The Construction Technology program allows students the opportunity to complete certificates at two levels and to transfer these certificates toward an Associate of Applied Science degree in Industrial Engineering Technology. The Level I Construction Technology certificate is for students who intend to seek entry-level employment after completing a one-year program of study. The Level II certificate is for students interested in advancing their skill level beyond Level I.

The curriculum utilizes National Center for Construction Education and Research (NCCER) a nationally-recognized credentialing and certification system. This National Registry system assures portability of skills by providing transcripts, certificates, and wallet cards to students who successfully complete the program.

Career areas can include carpenter, electrician,, brick and block mason,, plumber,, drywall installer,, construction laborer,, construction supervisor, and more.

Prerequisites

The student will need to demonstrate proficiencies in reading, English, and mathematics based on the COMPASS assessment test, ACT or SAT scores, or by taking the recommended/required classes.

General Education (GE) Courses

In order to obtain the Associate of Applied Science degree in Industrial Engineering Technology, general education courses must be taken. The student's program advisor will recommend appropriate general education courses based upon the student's background and career objectives.

Program Elective Courses

The Level I Construction Technology certificate requires the completion of 18 credit hours of courses in the technical career area. The Level II Construction Technology certificate requires the completion of 32 credit hours of courses in the technical career area. Additional technical courses should be discussed with the student's academic advisor and may be selected based upon specific goals and requirements.

Level I Program Outcomes

1. Demonstrate the fundamentals of basic safety.
2. Demonstrate the ability to perform construction math.
3. Demonstrate the ability to correctly use of hand and power construction tools.
4. Demonstrate the ability to read and utilize blueprints.
5. Demonstrate basic rigging.
6. Demonstrate basic employability & communication skills.
7. Demonstrate the use of building materials, fasteners & adhesives.
8. Demonstrate the ability to layout and construct floor, wall, ceiling and roof framing
9. Demonstrate knowledge of OSHA.
10. Demonstrate the ability to layout and construct stairs.
11. Demonstrate ability to create roof systems.
12. Explain the types and uses of current windows & exterior doors.

Level II Program Outcomes

1. Demonstrate basic drywall installation.
2. Demonstrate the ability to install window, door & ceiling trim.
3. Demonstrate site layout competency.

4. Demonstrate the ability to handle and place concrete.
5. Demonstrate the ability to complete roofing applications
6. Demonstrate the ability to finish exteriors.
7. Demonstrate electrical safety.
8. Demonstrate knowledge of residential wiring.
9. Demonstrate knowledge of drain, waste, and vent systems.
10. Demonstrate an understanding of plastic and copper pipe and fittings.
11. Demonstrate knowledge of HVAC systems.
12. Demonstration of site layout processes.

Sequence of Courses

Level I Certificate

Semester I		Cr Hrs
CMCT 105	OSHA 10 Safety Orientation	1
CMCT 106	Introduction to Craft Skills	3
CMCT 107	Carpentry Basics	4
	Total	8

Semester II		
CMCT 110	Floors, Walls & Ceiling Framing	4
CMCT 111	Roof Framing	3
CMCT 112	Windows, Doors and Stairs	3
	Total	10

Total Level I Certificate Credits **18**

Level II Certificate

Level I Certificate requirements **18**

Semester III		
CMCT 205	Site Layout & Handling & Placing Concrete	4
CMCT 206	Drywall, Window, Door & Ceiling Install.	2
	Total	6

Semester IV		
CMCT 210	Roofing & Exterior Finishes	4
CMCT 211	Electrical, HVAC, Drain, Waste & Vent	4
	Total	8

Total Level II Certificate Credits **32**

To earn a certificate, students must successfully pass all courses and have a cumulative GPA of at least 2.0 on all courses within the certificate.

Associate of Applied Science Option

Students interested in completing an Associate of Applied Science degree in Industrial Engineering Technology with an emphasis in construction should visit with an advisor to determine general education and additional technical education requirements. Degrees require completion of 64 credit hours.

For more information contact:

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