

Construction Technology Certificate

Program Description

The Certificate in Construction Technology Program will prepare students for the current local and global job market with entry-level skills needed for any of the following fields: carpentry; electricity; heating, ventilation, and air conditioning (HVAC); masonry, plumbing, reinforcing metal worker, and welding. All students must successfully pass four core courses (technical related requirements) with a “C” or better before enrolling in one of the seven concentration areas.

Program Student Learning Outcomes (SLOs):

Upon successful completion of the Certificate in Construction Technology program, students will be able to:

1. Demonstrate basic skills needed to function as an entry-level worker in at least one construction trades concentration area in accordance with industry safety standards: carpentry; electricity; heating, ventilation, and air-conditioning (HVAC); masonry; plumbing, reinforcing metal worker; or welding.
2. Exhibit entry-level knowledge in chosen construction trades concentration area.
3. Demonstrate professionalism as related to the construction trades industry.

Carpentry Track		
General Education Requirements		
Course #	Course Name	Credits
MA 107	Mathematics for the Trades	4
Technical Requirements		
Course #	Course Name	Credits
CT 153	Introduction to Carpentry	3
CT 173	Rough Framing and Exterior Finishing	3
CT 183	Finishing	3
CT 193	Cabinet Making and Millwork	3
Related General Education & Technical Requirements		
Course #	Course Name	Credits
AE 103	Basic Blueprint Reading	3
CT 100	Introduction to Construction Trades	5
CT 140	Industrial Safety	3
CT 292	Construction Practicum	3
HL 130	First Aid & Safety	1
Certificate Total		31

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Welding Track		
General Education Requirements		
Course #	Course Name	Credits
MA 107	Mathematics for the Trades	4
Technical Requirements		
Course #	Course Name	Credits
CT 196A	Fundamentals of Oxyacetylene Welding I	5
CT 196B	Fundamentals of Oxyacetylene Welding II	5
CT 197A	Shielded Metal Arc Welding I	5
CT 197B	Shielded Metal Arc Welding II	5

Related General Education & Technical Requirements		
Course #	Course Name	Credits
AE 103	Basic Blueprint Reading	3
CT 100	Introduction to Construction Trades	5
CT 140	Industrial Safety	3
CT 292	Construction Practicum	3
HL 130	First Aid & Safety	1
Certificate Total		39

Reinforcing Metal Worker Track		
General Education Requirements		
Course #	Course Name	Credits
MA 107	Mathematics for the Trades	4
Technical Requirements		
Course #	Course Name	Credits
CT 153	Introduction to Carpentry	3
CT 154A	Masonry Level I	4
CT 196A	Fundamentals of Oxyacetylene Welding I	5

Reinforcing Metal Worker Track Continued		
Related General Education & Technical Requirements		
Course #	Course Name	Credits
AE 103	Basic Blueprint Reading	3
CT 100	Introduction to Construction Trades	5
CT 140	Industrial Safety	3
CT 292	Construction Practicum	3
HL 130	First Aid & Safety	1
Certificate Total		31

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Electricity Track		
General Education Requirements		
Course #	Course Name	Credits
MA 107	Mathematics for the Trades	4
Technical Requirements		
Course #	Course Name	Credits
CT 165A	Electricity Level I	5
CT 165B	Electricity Level II	5
CT 165C	Electricity Level III	5
CT 165D	Electricity Level IV	5

Related General Education & Technical Requirements		
Course #	Course Name	Credits
AE 103	Basic Blueprint Reading	3
CT 100	Introduction to Construction Trades	5
CT 140	Industrial Safety	3
CT 292	Construction Practicum	3
HL 130	First Aid & Safety	1
Certificate Total		39

Heating, Ventilation, and Air-Conditioning (HVAC) Track		
General Education Requirements		
Course #	Course Name	Credits
MA 107	Mathematics for the Trades	4
Technical Requirements		
Course #	Course Name	Credits
CT 185A	Refrigeration and Air Conditioning Level I	5
CT 185B	Refrigeration and Air Conditioning Level II	5
CT 185C	Refrigeration and Air Conditioning Level III	5
Related General Education & Technical Requirements		
Course #	Course Name	Credits
AE 103	Basic Blueprint Reading	3
CT 100	Introduction to Construction Trades	5
CT 140	Industrial Safety	3
CT 292	Construction Practicum	3
HL 130	First Aid & Safety	1
Certificate Total		34