

## Applied Trades (Less-Than-One-Year-Certificate)

(CON 1100) Minimum 16 hours

CIP Code:46.0000

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The Construction Technician Certificate program offers students a flexible, short-term pathway to develop foundational trades skills. In this under-30-credit-hour program, students can choose to explore a specific construction trades occupational area such as Basic Electricity (BEL), Welding (WEL), or Heating, Ventilation, Air, and Refrigeration (HVAC). By completing the certificate, students gain practical, entry-level skills that prepare them for immediate work opportunities or serve as a solid base for further education or apprenticeship in a trade. This program is ideal for those seeking a quick start in the trades with options for future growth.

**Strongly recommend to take IND 136-Heartsaver First Aid/CPR/AED**

\* Elective options should match trade of interest.

FALL SEMESTER		Credit Hours
TRA 0101	Introduction to the Trades	2
OSH 0101	OSHA 10 General Industry	1
MAT 0121	Technical Math	3
ENG 0124	Technical English	3
TRA 0120	Blueprint Reading	3
	*Elective Options (below)	4-6
TOTAL HOURS		16-18

*Elective Options:*

Basic Electricity Electives: BEL 0161 Basic Electricity I; BEL 0162 Basic Electricity II; BEL 0163 Conduit Bending and Fabrication; BEL 0164 Electrical Safety; or, BEL 0166 Codeology

Heating and Air Electives: HAC 0160 Air Conditioning I; and, HEA 0160 Heating I

Welding Electives: WEL 0160 Introduction to Welding; WEL 0122 Maintenance Welding; WEL 0125 Gas Metal Arc Welding (MIG); or, WEL 0129 TIG Welding

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### Possible Career Opportunities by SOC Code:

47-2061.00	Construction Laborers: 133,100 Projected Job Openings (2023-2033) Avg. Earnings: \$61,350.00 – IL / \$47,530.00 – MO / \$42,230.00 – KY
47-2073.00	Operating Engineers & Other Construction Equipment Operators: 41,500 Projected Job Openings (2023-2033) Avg. Earnings: \$89,160.00 – IL / \$61,990.00 – MO / \$54,610.00 – KY
47-3019.00	Helpers, Construction Trades, All Other: 3,400 Projected Job Openings (2023-2033) Avg. Earnings: \$40,180.00 – IL / \$40,220.00 – MO / \$32,050.00 – KY
47-4099.00	Construction & Related Workers, All Other: 3,000 Projected Job Openings (2023-2033) Avg Earnings: \$48,340.00 – IL / \$41,400.00 – MO / \$43,890.00 – KY
47-1011.00	First-Line Supervisors of Construction Trades and Extraction Workers: 72,000 Projected Job Openings (2023-2033) Avg Earnings: \$96,890.00 – IL / \$80,300.00 – MO / \$67,980.00 – KY

**O\*NET Links:** [www.onetonline.org](http://www.onetonline.org)