



Industrial Electrician

28-credit Apprenticeship

www.wctc.edu/industrial-elec

If you enjoy a technical challenge, are an analytical problem solver, and like following complex directions to fix mechanical and electrical problems on heavy duty machinery and equipment, a job as an industrial electrician may be right for you. Those working in this field assess equipment and system malfunctions and restore them to proper working order.

About This Program

Industrial electricians work to install, test, troubleshoot, maintain and repair electrical equipment in industrial/commercial settings. They ensure electrical systems run safely and efficiently, as the systems they work on power large, complex facilities. Receive high-quality, hands-on classroom instruction that complements on-the-job apprenticeship training critical for success in the industrial trades.



Career Salaries

\$32,000 - \$55,000 annually

Salary range estimates based on wages for related occupations in Waukesha County as reported by Economic Modeling Specialists International (EMSI). Individual wages may vary based on experience, industry, location and specific job requirements.



Potential Careers

Industrial Electrician
Journeyworker
Master Electrician
Electrical Engineer

What Makes This Program Unique

- Upon completion, apprentices have little to no educational debt and have been working their employer for multiple years.
- Jobs are available now. In the next few years, the construction industry will need as many as two million new craft professionals to fill the jobs available.
- Upon completion of your apprenticeship, you'll receive a nationally-recognized completion certification.



PROGRAM CODE 50-413-1

CORE COURSES

Credits

413-510	IE Apprentice Code Review	1
413-523	Industrial Data Communication	2
413-524	IE DC Circuit Analysis	1.5
413-525	IE AC Circuit Analysis	1.5
Approved Substitutes : 513-501 OR 413-501B		
413-526	NEC Overview	1
413-527	IE Transformers	1.5
413-528	IE Motors and Generators	1.5
413-529	NEC In Depth	1
413-535	NEC NFPA 70 and 79	1
413-536	IE Electromechanical Control 1	2
413-537	IE Electromechanical Control 2	2
413-538	IE Variable Speed Drives 1	2
413-539	IE Variable Speed Drives 2	2
413-542	Ind Elec PLC 1	2
413-543	Ind Elec PLC 2	2
413-551	IE Raceways & Ctrl Drawings	1
413-552	Ind Elec Electronics	1
419-501	Apprentice Hydraulics	1
419-502	Pneumatics for Apprentices	1



WAUKESHA COUNTY TECHNICAL COLLEGE

Hands-on Higher Ed