

Industrial Electrical Apprenticeship

TrainWith
CTS

This program will focus on learning experiences that will prepare Apprentices with the technical skills to work in the industrial electrical field in positions such as Industrial Electrician, Electrical Technician,

Industrial Controls Technician or Maintenance Technician. All of these courses apply toward the comparable associate degree. Students in the program will be trained not only in traditional electrician skills, but also how to operate and troubleshoot state-of-the-art programmable controller systems, solid state motor drives, instrument systems and industrial computer systems used by maintenance personnel in manufacturing and process plants.

Apprentices will receive hands-on training on AC/DC motors, transformers, test equipment, basic hydraulic systems, and industrial wiring practices according to the National Electrical Code. This program focuses on basic fundamentals so that graduates can also adapt to the continuous changes in technology.

For more information on how to start an Apprenticeship Program at your facility please contact:

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Workforce and Apprentice
Program Manager
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419-267-1219

Successful completion of program will result in the following credentials:

- Industrial Electrical Certificate from Northwest State Community College
- Fanuc Robot Operations Credential

Students must attain a minimum grade of a “C” in these technical courses in order to progress in program.



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PROGRAM SEQUENCE - *(Full-time attendance)*

<u>First Semester - 1st 8 Weeks</u>		<u>Credits</u>
IND120	Industrial Electricity I	3
IND110	Industrial Computing	3
IND105	Industrial Safety	2
<u>First Semester - 2nd 8 Weeks</u>		<u>Credits</u>
IND121	Industrial Electricity II	3
IND134	Industrial Fluid Power I	3
IND122	Industrial Wiring (NEC)	3
<u>Second Semester - 1st 8 Weeks</u>		<u>Credits</u>
IND220	Electrical Prints & Troubleshooting	3
IND223	Motors & Motor Controls	3
PLC200	Programmable Controller I	3
<u>Second Semester - 2nd 8 Weeks</u>		<u>Credits</u>
IND221	Instrumentation & Controls I	3
PLC230	Servo/Robotics Systems	3
	Communications Elective	3
Total Program Credit Hours		35