

Industrial Electrician



Engineering Technologies Division

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The Higher Learning Commission
(312) 263-0456*

www.ncahigherlearningcommission.org

Industrial Electrician

Associate of Applied Science in Industrial Technology

This degree will focus on learning experiences for the student that will prepare he or she 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.

Students in this 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.

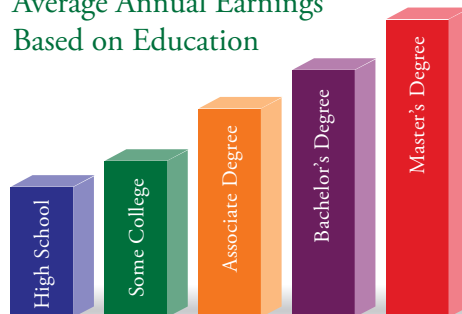
Students will receive hands-on training on AC/DC motors, transformers, test equipment, basic hydraulic systems, and industrial wiring practices according to the National Electrical Code. Most of the technical classes will have 50% of the learning experience in the classroom, and the other 50% in the laboratory with hands-on training. This program focuses on basic fundamentals so that graduates can also adapt to the continuous changes in this technology.

Career Outlook

As manufacturers invest in new highly technological equipment, the demand for the industrial electrician is great.

Education Pays

Average Annual Earnings
Based on Education



2011-2012

Based on data from the Bureau of Labor Statistics

Program Sequence

First Semester

		<i>Credits</i>
CAD111	CAD I	4
ENG111	Composition I	3
IND110*	Industrial Computing I	3
MTH109	College Algebra	3
+ IND120	Industrial Electricity I	3
		16

Second Semester

		<i>Credits</i>
ENG112	Composition II	3
+ IND121	Industrial Electricity II	3
IND103	Applied Geometry & Trigonometry	3
+ IND122	Industrial Wiring (NEC)	3
+ IND134	Industrial Fluid Power I	3
	Communications Elective	3
		18

Third Semester

		<i>Credits</i>
+ INT120	HVAC-R I	3
+ PLC200	Programmable Controller I	3
+ IND223	Motors & Motor Controls	3
+ EET277	Industrial Electronics	3
	Humanities Elective	3
	Science Elective	4
		19

Fourth Semester

		<i>Credits</i>
+ IND220	Electrical Prints & Troubleshooting	3
+ IND221	Instrumentation & Controls I	3
+ IND234	Industrial Fluid Power II	3
+ PLC230	Servo/Robotic Systems	3
+	Technical Elective	3
	Social/Behavioral Science Elective	3
		18

Total Program Credit Hours **71**

* Prior to taking IND110, students should have basic computer literacy in Windows and at least one Windows application.

+ Students must attain a minimum grade of "C" in all courses with a '+' to progress in the program and to graduate.

Course curriculum is subject to change. Please consult with an Academic Advisor for up-to-date information.

