

# Electricity

Technical Diploma: 31-413-1

Campus: West Bend

## Description

Moraine Park's Electricity program provides students with the concepts of and extensive hands-on training in general electrical applications. Coursework develops basic knowledge and skills in residential, commercial and industrial electricity to prepare them for a career path in any of the three areas. In addition, students learn trade-specific mathematics, safety, electrical code, electrical theory, construction trades blueprint reading, and basic programmable logic controls.

The program is designed to help graduates enter the State Electrical Apprenticeship program through the Department of Workforce Development, Bureau of Apprenticeship Standards. Graduates are also prepared for employer-sponsored training programs.

## Program Outcomes

- Analyze electrical circuits mathematically.
- Apply electrical codes.
- Demonstrate use of test instruments.
- Evaluate electrical circuits using meters.
- Explain and follow construction safety practices.
- Install electrical equipment in a commercial setting.
- Install electrical equipment in an industrial setting.
- Install electrical equipment in a residential setting.
- Program a basic programmable logic control (PLC) circuit.
- Use blueprints to evaluate construction work.
- Wire a basic programmable logic control (PLC).

## Career Opportunities

- Apprentice Commercial Electrician
- Apprentice Residential Electrician
- Apprentice Industrial Electrician

## Statewide Yearly Salary Range for Recent Graduates

\$16,640 - \$51,996

## Admission Process

- Submit the college admission application.
- Submit the \$30 one-time fee.
- Submit high school/other official college transcripts.
- Take the college placement assessment (ACCUPLACER, ACT or other).
- Meet with an admissions specialist to determine the best course sequencing and prerequisites (required for this program).
- Check with Admissions if any additional steps are required.

Note: Students must purchase a tool kit for this program.



## Electricity

2009-2010 Curriculum

Course Number	Course Title	Year	2009-2010					2010-2011			
			Cr.	S	F	W	P	S	F	W	P
<b>Core Courses</b>											
413-350	Beginning Electrical Concepts	3									
413-351	Advanced Electrical Concepts	2									
413-355	Residential and Commercial Wiring Concepts	3									
413-360	Introduction to National Electrical Code	2									
413-361	Intermediate National Electrical Code	2									
413-363	OSHA Safety Construction Trades	1									
413-365	Basic Motor Controls	3									
413-370	Construction Trades Blueprint Reading	2									
413-380	Industrial Wiring Concepts	3									
413-385	Electrical Fabrication	2									
413-386	Trends in Electricity	1									
<b>Technical Support Courses</b>											
801-310	Occupational Communication	2									
804-360	Occupational Math 1	2									
804-363	Algebraic Applications for Electrical Trades	2									
		<b>Total</b>	<b>30</b>								
<div style="border: 1px solid black; padding: 5px; margin-bottom: 5px;">Schedule a Course</div> <div style="border: 1px solid black; padding: 5px; margin-bottom: 5px;">Academic Planner-Days</div> <div style="border: 1px solid black; padding: 5px;">Academic Planner-Nights</div>											
An Electricity Exit Assessment is a graduation requirement for this program.											
<b>Institutional Requirements</b>											
890-125	Student Success - take <b>1st</b> semester										
103-159	Computer Literacy/Advanced Standing - take <b>1st</b> semester										
890-130	Career Development - take <b>2nd</b> semester										

Semester Codes: S - Summer F - Fall W - Winter P - Spring

For course descriptions, please visit our Web site at [www.morainepark.edu](http://www.morainepark.edu).