

# INDUSTRIAL WIRING CERTIFICATE

**Program Number:** 97-413-2

Certificate

**Campus:** Fond du Lac, West Bend

This program is **not** eligible for financial aid

Jumpstart an exciting career in industrial wiring with Moraine Park Technical College's Industrial Wiring Certificate.

## About the Program

In this short, two-course certificate program, students who have little to no background in the field learn the fundamentals of industrial wiring concepts. Graduates are prepared to design Programmable Logic Controller (PLC) circuits, address inputs and outputs, and work with the PLC numbering system. They also work with timers, counters, math functions and PLC wiring. Students can build on the Industrial Wiring Certificate by transferring their coursework to MPTC's Electricity program (<https://catalog.morainepark.edu/programs/electricity/>).

## What You'll Learn

Students in this program learn the basics of electrical motor control components, circuits, and systems found in industrial and manufacturing settings. They'll also explore electrical control symbols, ladder diagrams, power distribution and control transformers. Graduates are well-versed in concepts of motor starters, relays, limit switches, pushbuttons, selector switches, timers, ac motor principles, proximity sensors, photo eyes and basic troubleshooting of power and control circuits.

## Transfer Opportunities

Your academic journey can continue at a four-year college or university. Earn your associate degree at Moraine Park and then apply those credits toward a bachelor's degree. Starting at MPTC makes completing a bachelor's degree **affordable**, **accessible** and **convenient**. You can go anywhere as MPTC has transfer agreements with colleges and universities both in Wisconsin and throughout the country.

Visit the Transfer to a Four-Year College (<https://www.morainepark.edu/transfer-to-a-four-year-college/>) page for more information on credit transfer agreements between Moraine Park and four-year colleges, both public and private.

## Admission Process

Standard Admissions (<http://www.morainepark.edu/admissions/new-student/how-to-apply-for-admissions/>) steps details

## Credit for Prior Learning

Transform the skills and abilities developed through previous experience into college credit through MPTC's Credit for Prior Learning process.

- Transfer credit from other colleges/universities
- Earn college credit for your military training and experience
- Earn college credit via Advance Placement, CLEP, DANTES/DSST or MPTC Challenge Exams
- Earn college credit from previous/current work and life experiences

Visit MPTC's Credit for Prior Learning (<https://www.morainepark.edu/academics/credit-for-prior-learning/>) page for more information.

## Approximate Costs

### Tuition

#### Occupational

- \$152.85 per credit (resident)
- \$229.28 per credit (out-of-state resident)

#### Associate of Arts/Associate of Science

- \$192.20 per credit (resident)
- \$288.30 per credit (out-of-state resident)

Online students are not charged out-of-state fees.

### Student Fees

- \$5.00 minimum per course Material Fee
- \$13.76 per-credit Supplemental Fee for Undergraduate courses
- \$4.50 per term mandatory Student Accident Insurance Fee

Please refer to Tuition & Fee Information (<https://catalog.morainepark.edu/admissions-registration/tuition-fee-information/>) for additional enrollment fee information.

## Course Requirements

Course	Title	Credits
<b>Semester 1</b>		
413-365	Basic Motor Controls	3
413-380	Industrial Wiring Concepts	3
<b>Credits</b>		<b>6</b>
<b>Total Credits</b>		<b>6</b>

## Pathways

- Electricity Technical Diploma (<https://catalog.morainepark.edu/programs/electricity/>)
  - Industrial Wiring Certificate (p. 1)

Earn a certificate and technical diploma along this pathway. Start with some courses for entry-level employment, and continue with additional courses for higher wages and job advancement.

## Career Opportunities

- Apprentice Industrial Electrician
- Electrical Control Technician
- Electrical Maintenance Technician