

# INDUSTRIAL WIRING CERTIFICATE

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

Certificate

**Campus:** 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

Earn credits at MPTC and transfer to a four-year college to earn your bachelor's degree.

Visit the Transfer to a Four-Year College (<https://www.morainepark.edu/academics/transfer-information/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

Earn college credit outside the classroom through Moraine Park's Credit for Prior Learning (CPL) opportunities. Credit opportunities are available for:

- Previous college coursework from prior institutions
- Military training and experience
- Passing of MPTC or national exams
- Skills or knowledge developed on the job or through other life experiences

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

## Approximate Costs

### Tuition

#### Occupational

- \$146.20 per credit (resident)
- \$219.30 per credit (out-of-state resident)

#### Associate of Arts/Associate of Science

- \$188.90 per credit (resident)
- \$283.35 per credit (out-of-state resident)

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

### Student Fees

- \$4.50 minimum per course Material Fee
- \$12.50 per-credit Supplemental Fee for Undergraduate courses
- \$10 minimum per credit Online Course Fee (Fee suspended for 2023-2024)
- \$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