



Industrial Maintenance Technology

Department: Industrial Technologies

Degree: Associate of Applied Science

Entry time: Fall

Length: 2 years (4 semesters and summer)

- **Kibbie Grant:** Students in this program may be eligible to have half their tuition paid for by the Kibbie Grant. Go to www.kirkwood.edu/Kibbie for more details.
- **State-of-the-art lab equipment.**
- The program utilizes multiple types of instruction, which includes **lecture, online learning, computer software,** and **hands-on** learning.
- Cultivated **relationships with local industry** to ensure the program stays relevant and current.
- **Small class sizes** give faculty the opportunity to provide **individual instruction** to students.
- The **curriculum** allows students the flexibility to enter a vast spectrum of careers that include **basic electrical** and **mechanical applications.**
- Students who wish to pursue a four-year degree can **transfer** to the **University of Northern Iowa** after they have completed their Kirkwood degree.

Program Description

The Kirkwood Industrial Maintenance Technology program prepares students for a broad range of industrial maintenance-related careers using industry-guided curriculum combined with practical hands-on labs. Studies focus on the concept technologies that include, but are not limited to, basic electrical theory, motors and transformers, industrial controls and wiring, electrical print design and reading, industrial maintenance concepts (mechanical and electrical), and applied physics and mathematics.

While in this program, students also gain experience and skills in a variety of disciplines, such as programmable logic controllers, plumbing, print reading, welding, fabrication and light machining.

Career Opportunities

Maintenance electrician
Maintenance mechanic
Millwright
Commercial electrician
Plant maintenance technician

Sample Classes

Mechanical Drive Systems
Electrical Theory, Measurement and Circuits
AC, Magnetism, Transformers and Relays
Microcomputers for the Trades
Industrial Control Circuits
National Electrical Code and Electrical Wiring
Motors and Transformers

Advanced Alignment
Light Machining for Maintenance Trades
Welding for Maintenance Trades
Pipe Fitting for Maintenance Trades
Predictive Maintenance
Preventative Maintenance
Introduction to Programmable Logic Controllers
PLC Programming and Control
Fundamentals of Hydraulic and Pneumatic Systems

Industry endorsements earned:

Forklift Class 1, 3, 4, 5, 7; OSHA 10-Hour General Industry; 50+ High Voltage Arc Flash; Residential Voltage Arc Flash; Rigging, Lifting and Cribbing; Adult First Aid with CPR; National Career Readiness Certificate; Snap-On Torque Certification; JSEA-Job Safety & Environmental Analysis.

Diploma Options

Short-term training options are available by earning a diploma. Diploma options for Industrial Maintenance Technology include:

Electromechanical Technology Diploma
1 year (2 semesters)

Scholarships

Kirkwood will help you pay for college! Kirkwood awards more scholarships than any other community college in Iowa. For more information and to apply, visit www.kirkwood.edu/scholarships.

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