INDUSTRIAL MAINTENANCE TECHNOLOGY, A.A.S.

Entry Time

Fall

Award

Associate of Applied Science degree
2 years (5 terms including summer)

The 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.

First-year studies focus on the concepts and 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), applied physics, and mathematics.

During the second year, students are introduced to a broad range of industrial technologies and processes that are commonplace in today's industrial environments. While in this program, students gain experience and skills in a variety of disciplines, such as plumbing, print reading, welding, fabrication, and light machining.

Career Opportunities

- commercial electrician
- plant maintenance technician
- maintenance mechanic
- maintenance electrician
- millwright

Degree Requirements

Term 1		
Fall		**Credit Hours**
ATR-303	Mechanical Power Transmission	4
ELE-364	Basic Electrical Circuits	4
ELT-796	Fundamentals of Fluid Power	3
MAT-232	Industrial Math	3
Communications Course		3
	Term Totals:	**17**
Term 2		
Spring		
ATR-136	PLC for Manufacturing	4
ATR-310	Industrial Controls	5
CAD-108	CAD for Electrical Design	2
ELT-224	Motors and Transformers	5
	Term Totals:	**16**

Term 3		
Summer		
ATR-328	Instrumen & Process Control	6
ELE-365	Industrial Wiring	3
WEL-267	Welding for Maintenance	3
	Term Totals:	**12**
Term 4		
Fall		
ATR-210	Electromechanical Systems	4
Select one of the following:		4
ATR-311	Controls Capstone [1]	
ATR-254	PLC Integration [2]	
PHY-180	Applied Physics I	2
Communications Course		3
Humanities or History/Culture Course (https://creditcatalog.kirkwood.edu/aas-degree-humanities-requirement/)		3
	Term Totals:	**16**
Term 5		
Spring		
Select one of the following:		4
ATR-126 & ATR-279	Advanced Maintenance Tech and Intro to Industrial Networking [1]	
ATR-201	Automation & Instrum Capstone [2]	
MFG-145	Light Machining-Maint Trades	4
Select one of the following:		2
WEL-208	Intro to Fabrication [1]	
ATR-105	Industrial Robotics [2]	
MGT-145 or PSY-111	Human Relations in Management or Intro to Psychology	3
	Term Totals:	**13**
	Program Totals:	**74**

[1] Required class for students that are interested in completing the Industrial Maintenance Technology AAS and do not want the Industrial Automation certificate.

[2] Required class for students that are interested in completing both the Industrial Maintenance Technology AAS as well as the Industrial Automation certificate.

Optional Courses

Code	Title	Credit Hours
ATR-450	Computer Integrated Manufactg	3

Industrial Maintenance Technology Tool Requirements

Students in the Industrial Maintenance Technology program are required to have a tool set for lab activities in the third term. Instructors will provide

students with a list of minimum requirements. Students can purchase tool set through the Industrial Technologies Department or on their own. An additional equipment list will be provided for students to purchase on their own. Payment plans can be arranged with the financial aid office.