Industrial Maintenance Technology

Associate in Industrial Technology Degree Program Code 360

Advisor: Ken Flowers, (269) 927-4103, flowers@lakemichigancollege.edu Kevin Kreitner (269) 927-8100, ext. 3033, kkreitner@lakemichigancollege.edu

Program Prerequisites

Proficiency in reading, English, and mathematics on the assessment or successfully complete recommended classes. See course descriptions for specific course prerequisites.

Degree Requirements College Requirements

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English 101, English Composition	3
English 103, Report Writing, or English 102, English Composition	2
* Physical Education 200, Healthful Living, or	s
Physical Education 210, Health and Fitness, or	
Physical Education 214, Personal Health	1 or 3
Political Science 101, National Government, or	1 01 3
Political Science 102, State Governments, or	
History 201, American History to 1865, or	
History 202, American History 1865 to Present	3
Support Courses	
Mathematics 100, Applied Mathematics	4
Mathematics 110, Technical Mathematics, or	
Mathematics 130, Pre-Calculus Trigonometry, or	
Mathematics 135, Pre-Calculus	4/3/5
Physics 110, Technical Physics	
Group III Humanities (excluding COMM 101)	
Industrial Maintenance Technology 109, Intro to Welding, or Welding 101, Intro to Fabrication	tics
Electives (Select 2/3 credit hours) Electronics 152, Machine Circuitry & Control Logic	3 3 ntenance3

It is important to begin the science and math sequence as soon as possible to efficiently complete the coursework. Be sure to determine readiness for the math and science courses as many students need to begin with lower level math and science coursework to successfully complete the required courses.

Manufacturing 123, Programmable Logic Controller II2Welding 102, SMAW Welding2Welding 103, GMAW Welding2

*Transferring students are encouraged to take PHED 212 or PHED 214.

About the Area of Study

As an industrial machinery mechanic you will repair and maintain industrial production and processing machinery in a plant or factory. This will include diagnosing and correcting minor problems with equipment, before they can become major ones. After diagnosing the problem, you will disassemble, repair, reassemble, and test the equipment.

You also may perform preventative maintenance and become involved with replacing and installing new machinery.

Associate's Degree

As a graduate of the Industrial Maintenance program, you may apply for an Associate degree. There is a 61-credit degree requirement needed for graduation.

Transfer Resources

If you are planning to transfer to a fouryear college or university, you should become familiar with your chosen school's requirements. See your Academic Advisor for assistance in developing your Student Education Plan or visit www. lakemichigancollege.edu/transfer

Industrial Maintenance Technology

Level I Certificate - Fluid Power Program Code 362

Level I Certificate - Industrial Computing Program Code 364

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Level I Fluid Power Certificate

Industrial Maintenance 204, Basic Hydraulics and Pneumatics	2
Industrial Maintenance 205, Hydraulics and Pneumatics Maintenance	
Industrial Maintenance 206, Hydraulics and Pneumatics Circuitry	
Machine Tool Technology 110, Machine Tool I	
Total Credit Hours	9

Level I Industrial Computing Certificate

Computer Information Systems 108, Computer Operations	3
Engineering 103, Beginning Engineering Drawing, or	
Engineering 113, Engineering Design	4
Machine Tool Technology 140, Introduction to CNC	
Machine Tool Technology 150, Introduction to CAM	
Machine Tool Technology 241, CNC Programming I	
Manufacturing 120, Intro to PLC	
Manufacturing 122, Intro to Robotics	
Total Credit Hours	

See previous page for Industrial Maintenance Technology associate's degree.

Level I Certificate Option

Upon completion of the listed programs, you will earn a Level I Certificate of Completion. This Level I certificate is a pathway into the Associate in Industrial Technology degree in Industrial Maintenance and General Technology. It is also a pathway into the Associate in Skilled Trades Technology degree (must be a registered apprentice with the Department of Labor.)