



Business & Industry



Industrial Maintenance Technology Associate of Applied Science

Program Summary Certifications Associate of Applied Science

Industrial maintenance technicians are needed in every industry that uses machinery. The program includes cross-training in electrical, manufacturing, maintenance, machining, and welding and provides entry to a variety of high-demand careers.

AAS 6127 Industrial Maintenance Technology AAS		60 Hours	TSI Required
Industrial Maintenance Skills Certificate (18 hours)			
MC 6125	Certificate of Completion		TSI Waived
ELPT 1311	Basic Electrical Theory		3
INMT 1305	Introduction to Industrial Maintenance		3
INMT 2245	Industrial Troubleshooting		2
MCHN 1302	Blueprint Reading for Machining Trades		3
MCHN 1343	Machine Shop Mathematics		3
WLDG 1428	Introduction to Shielded Metal Arc Welding		4

Industrial Maintenance Certificate (16 Hours)		
MC 6126	Certificate of Technology Ψ	TSI Required
BCIS 1305	Business Computer Applications	3
ELMT 1305	Basic Fluid Power	3
INMT 1319	Manufacturing Processes	3
MCHN 1320	Precision Tools and Measurements	3
MCHN 1438	Basic Machine Shop I	4

Industrial Maintenance (26 Hours)		
AAS 6127	Associate of Applied Science Ψ Ψ	TSI Required
ELPT 1325 or MCHN 2303	National Electric Code or Fundamentals of CNC Machine Controls	3
ELPT 2405	Motors and Transformers	4
ELPT 2419	Programmable Logic Controllers I	4
INMT 2380	Cooperative Education Manufacturing Technology	3
ENGL 1301	Composition I	3
MATH	Mathematics*	3
ELECTIVE	Social and Behavioral Sciences¶	3
ELECTIVE	Language, Philosophy and Culture or Creative Arts Core¶	3

*See Core Curriculum for course options

¶ See Course Description for elective options

Ψ Prerequisite CC 6125

Ψ Ψ Must complete CC 6125 & CC 6126



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Electrical Skill Certificate (17 hours)		
MC 6170	Certificate of Completion	TSI Waived
ELMT 1305	Basic Fluid Power	3
ELPT 1311	Basic Electrical Theory	3
ELPT 1325	National Electric Code	3
ELPT 2405	Motors and Transformers	4
ELPT 2419	Programmable Logic Controllers	4

Basic Machinist Certificate (16 hours)		
MC 6077	Certificate of Completion	TSI Waived
MCHN 1302	Blueprint Reading for Machining Trades	3
MCHN 1320	Precision Tools and Measurement	3
MCHN 1343	Machine Shop Mathematics	3
MCHN 1438	Basic Machine Shop I	4
MCHN 2303	Fundamentals CNC Machine Controls	3



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Industrial Maintenance Technology Certifications (Sequenced)

Program Summary

Certifications

Associate of Applied Science

Industrial Maintenance Skills

Year 1: Semester 1

Course	Semester Credit Hours
ELPT 1311 Basic Electrical Theory	3
INMT 1305 Introduction to Industrial Maintenance	3
INMT 2245 Industrial Troubleshooting	2
MCHN 1302 Blueprint Reading for Machining Trades	3
MCHN 1343 Machine Shop Mathematics	3
WLDG 1428 Introduction to Shielded Metal Arc Welding	4
Total	18

Certificate of Technology

Year 1: Semester 1

Course	Semester Credit Hours
ELPT 1311 Basic Electrical Theory	3
INMT 1305 Introduction to Industrial Maintenance	3
INMT 2245 Industrial Troubleshooting	2
MCHN 1302 Blueprint Reading for Machining Trades	3
MCHN 1343 Machine Shop Mathematics	3
WLDG 1428 Introduction to Shielded Metal Arc Welding	4
Total	18

Year 1: Semester 2

Course	Semester Credit Hours
BCIS 1305 Business Computer Applications	3
ELMT 1305 Basic Fluid Power	3
INMT 1319 Manufacturing Processes	3
MCHN 1320 Precision Tools and Measurement	3
MCHN 1438 Basic Machine Shop I	4
Total	16

Electrical Skills

Year 1: Semester 1

Course	Semester Credit Hours
ELMT 1305 Basic Fluid Power	3
ELPT 1311 Basic Electrical Theory	3
ELPT 1325 National Electric Code	3
ELPT 2405 Motors and Transformers	4
ELPT 2419 Program Logic Control I	4
Total	17



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Basic Machinist Skills

Year 1: Semester 1

Course	Semester Credit Hours
MCHN 1302 Blueprint Reading For Machining Trades	3
MCHN 1320 Precision Tools and Measurement	3
MCHN 1343 Machine Shop Mathematics	3
MCHN 1438 Basic Machine Shop I	4
MCHN 2303 Fundamentals of CNC Machine Controls	3
Total	16



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Industrial Maintenance Technology Associate of Applied Science

Program Summary

Certifications

Associate of Applied Science

Year 1: Semester 1

Course	Semester Credit Hours
ELPT 1311 Basic Electrical Theory	3
INMT 1305 Introduction to Industrial Maintenance	3
INMT 2245 Industrial Troubleshooting	2
MCHN 1302 Blueprint Reading for Machining Trades	3
MCHN 1343 Machine Shop Mathematics	3
WLDG 1428 Introduction to Shielded Metal Arc Welding	4
Total	18

Year 1: Semester 2

Course	Semester Credit Hours
BCIS 1305 Business Computer Applications	3
ELMT 1305 Basic Fluid Power	3
INMT 1319 Manufacturing Processes	3
MCHN 1320 Precision Tools and Measurement	3
MCHN 1438 Basic Machine Shop I	4
Total	16

Year 2: Semester 1

Course	Semester Credit Hours
ELPT 2405 Motors and Transformers	4
ELPT 2419 Programable Logic Controllers I	4
MATH College Level Mathematics*	3
Social and Behavioral Sciences*	3
Total	14

Year 2: Semester 2

Course	Semester Credit Hours
ELPT 1325 National Electric Codes OR MCHN 2303 Fundamentals CNC Machine Controls	3
INMT 2380 Co-op Education Manufacturing Technology	3
ENGL 1301 Composition I	3
ELECTIVE Language, Philosophy and Culture or Creative Arts Core¶	3
Total	12

*See Core Curriculum for course options

¶ See Course Description for elective options