

MANUFACTURING INDUSTRIAL TECHNOLOGY
Industrial Maintenance Technology
Industrial Maintenance Technician
Diploma

Academic Plan Code 4703034049

Contact Information: Tim Driver				
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Student Name		Student ID#		
Course	Hours	Grade	Semester	
GENERAL EDUCATION				
Area 1: Written Communication, Oral Communications, or Heritage/Humanities	3			
Area 2: MAT 116 Technical Mathematics OR Higher	3			
General Education Subtotal	6			
TECHNICAL CORE				
Digital Literacy	3			
BRX 120 Basic Blueprint Reading OR	3			
BRX 112 Basic Blueprint Reading for Machinist	(4)			
FPX 100 Fluid Power AND	3			
FPX 101 Fluid Power Lab OR	2			
ELT 265 Applied Fluid Power	(3)			
IMT 110 Industrial Maintenance Electrical Principles AND	3			
IMT 111 Industrial Maintenance Electrical Principles OR	2			
ELT 110 Circuits I OR	(5)			
EET 119 Basic Electricity	(5)			
IMT 150 Maintaining Industrial Equipment I AND	3			
IMT 151 Maintaining Industrial Equipment I Lab	2			
IMT 220 Industrial Maintenance Electrical Motor Controls I AND	3			
IMT 221 Industrial Maintenance Electrical Motor Controls I Lab OR	2			
EET 270 Electrical Motor Controls I AND	(2)			
EET 271 Electrical Motor Controls I Lab	(2)			
WLD 120 Shielded Metal Arc Welding AND	2			
WLD 121 Shielded Metal Arc Welding Fillet Lab OR	3			
WLD 140 Gas Metal Arc Welding AND	(2)			
WLD 141 Gas Metal Arc Welding Fillet Lab OR	(3)			
WLD 152 Basic Welding B	(5)			
IMT 289 Industrial Maintenance Technology Capstone	1			
Technical Core Subtotal	28-32			
TECHNICAL ELECTIVES				
Fifteen (15) credit hours of electives must be taken from the approved list. This list is not all inclusive. Other technical elective courses may be taken with approval of the program instructor/advisor. *The Technical and Support requirements for graduation must include a work experience component of 1-12 credit hours.	15			
Total Credits	49-53			

Revised Date: 8/31/2017

KENTUCKY COMMUNITY & TECHNICAL COLLEGE SYSTEM

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First Semester		
Course No.	Course Title	Credit Hours
MAT 116	Technical Mathematics OR Higher	3
IMT 110	Industrial Maintenance Electrical Principles AND	3
IMT 111	Industrial Maintenance Electrical Principles Lab OR	2
ELT 110	Circuits I	(5)
IMT 150	Maintaining Industrial Equipment I AND	3
IMT 151	Maintaining Industrial Equipment I Lab	2
	Digital Literacy (Recommend CAD 103 CAD Fundamentals, Extra hour counts in Technical Electives)	3 - (4)
	Subtotal	16 - (17)
Second Semester		
Course No.	Course Title	Credit Hours
	Written Communication, Oral Communications, or Heritage/Humanities	3
FPX 100	Fluid Power AND	3
FPX 101	Fluid Power Lab OR	2
ELT 265	Applied Fluid Power	(3)
IMT 220	Industrial Maintenance Electrical Motor Controls I AND	3
IMT 221	Industrial Maintenance Electrical Motor Controls I Lab OR	2
EET 270	Electrical Motor Controls I AND	(2)
EET 271	Electrical Motor Controls I Lab	(2)
	Technical Electives (Recommend IMT 200 Industrial Robotics and Robotic Maintenance)	4
	Subtotal	14-17
Third Semester		
Course No.	Course Title	Credit Hours
BRX 120	Basic Blueprint Reading OR	3
BRX 112	Blueprint Reading for Machinists	(4)
WLD 120	Shielded Metal Arc Welding AND	2
WLD 121	Shielded Metal Arc Welding Fillet Lab OR	3
WLD 140	Gas Metal Arc Welding AND	(2)
WLD 141	Gas Metal Arc Welding Fillet Lab OR	(3)
WLD 152	Basic Welding B	(5)
IMT 289	Industrial Maintenance Technology Capstone	1
	Technical Electives (Recommend ISX 101 Introduction to Industrial Safety; IMT 280 Advanced Programmable Logic Controllers and IMT 281 Advanced Programmable Logic Controllers Lab; and IMT 199 Cooperative Education)	10
	Subtotal	19-20
	Grand Total	49-53
<p>Program Coordinator Notes: Progression in the Industrial Maintenance Technology program is contingent upon achievement of a grade of "C" or better in all courses and maintenance of a 2.0 cumulative grade point average or better (on a 4.0 scale). WKCTC curriculum guides only include courses offered at WKCTC. Please refer to the KCTCS catalog for a complete list of courses accepted for this credential. It is the ultimate responsibility of the student to stay current with the curriculum requirements.</p> <p>Fifteen (15) credit hours of electives must be taken from the approved list. This list is not all inclusive. Other technical elective courses may be taken with approval of the program instructor/advisor.</p>		
Course No.	Course Title	Credits
ACR 100	Refrigeration Fundamentals	(3)

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ACR 101	Refrigeration Fundamentals Lab	(2)
ACR 250	Cooling and Dehumidification	(3)
ACR 251	Cooling and Dehumidification Lab	(2)
ACR 260	Heating and Humidification	(3)
ACR 261	Heating and Humidification Lab	(2)
CAD 100	Introduction to Computer Aided Design (If CAD 103 was not taken for Digital Literacy)	(3)
CMM 110	Fundamentals of Machine Tools - A	(3)
CMM 112	Fundamentals of Machine Tools - B	(4)
CMM 114	Fundamentals of Machine Tool	(7)
CMM 124	Applied Machining	(6)
CMM 224	Advanced Industrial Machining	(6)
EET 254	Electrical Construction	(3)
EET 255	Electrical Construction Lab	(4)
EET 264	Rotating Machinery	(2)
EET 265	Rotating Machinery Lab	(2)
EET 276	Programmable Logic Controllers	(2)
EET 277	Programmable Logic Controllers Lab	(2)
IMT 198	Practicum	(1-8)
IMT 199	Cooperative Education	(1-8)
IMT 200	Industrial Robotics and Robotic Maintenance	(4)
IMT 290	Special Problems	(1)
ISX 101	Introduction to Industrial Safety	(3)
PHX 150	Introductory Physics	(3)
WLD 123	Shielded Metal Arc Welding Groove Weld	(3)
WLD 151	Basic Welding A	(2)