

# INDUSTRIAL MAINTENANCE TECHNICIAN - DIPLOMA

**Offered at:** Ashland Community and Technical College, Big Sandy Community and Technical College, Bluegrass Community and Technical College, Elizabethtown Community and Technical College, Gateway Community and Technical College, Hopkinsville Community College, Jefferson Community and Technical College, Maysville Community and Technical College, Owensboro Community and Technical College, Somerset Community College, Southcentral Kentucky Community and Technical College, Southeast Kentucky Community and Technical College, West Kentucky Community and Technical College

**Program Plan Number:** 4703034049

Course	Title	Credits
<b>General Education</b>		
<i>Area 1</i>		
Select one of the following three options:		3
Written Communication		
Oral Communications		
Heritage/Humanities		
<i>Area 2</i>		
MAT 116	Technical Mathematics (or higher)	3
Subtotal		6
<b>Technical Core</b>		
Digital Literacy Course or demonstrated competency <sup>1</sup>		0-3
Select one of the following four options:		2-3
BRX 120	Basic Blueprint Reading	
BRX 110	Basic Blueprint Reading for Machinist	
ELT 102	Blueprint Reading	
CAD 100	Introduction to Computer Aided Design	
Select one of the following two options:		3-5
FPX 100 & FPX 101	Fluid Power and Fluid Power Lab	
ELT 265	Applied Fluid Power	
Select one of the following three options:		5
IMT 110 & IMT 111	Industrial Maintenance Electrical Principles and Industrial Maintenance Electrical Principles Lab	
ELT 110	Circuits I	
EET 119	Basic Electricity	
IMT 150 & IMT 151	Maintaining Industrial Equipment I and Maintaining Industrial Equipment I Lab	5
Select one of the following five options:		4-5
IMT 220 & IMT 221	Industrial Maintenance Electrical Motor Controls I and Industrial Maintenance Electrical Motor Controls I Lab	
EET 270 & EET 271	Electrical Motor Controls I and Electrical Motor Controls I Lab	
ELT 244	Electrical Machinery and Controls	
IMT 120 & IMT 121	Industrial Maintenance Rotating Machinery and Industrial Maintenance Rotating Machinery Lab	

EET 264 & EET 265	Rotating Machinery and Rotating Machinery Lab	
Select one of the following four options:		4-5
IMT 280 & IMT 281	Advanced Programmable Logic Controllers and Advanced Programmable Logic Controllers Lab	
EET 276 & EET 277	Programmable Logic Controllers and Programmable Logic Controllers Lab	
IET 203	Programmable Logic Controllers	
ELT 250	Programmable Logic Controllers	
Select one of the following four options:		5
IMT 100 & IMT 101	Welding for Maintenance and Welding for Maintenance Lab	
WLD 120 & WLD 121	Shielded Metal Arc Welding and Shielded Metal Arc Welding Fillet Lab	
WLD 140 & WLD 141	Gas Metal Arc Welding and Gas Metal Arc Welding Fillet Lab	
WLD 152	Basic Welding B	
IMT 289	Industrial Maintenance Technology Capstone	1
Subtotal		29-37
<b>Technical Electives</b>		
Select thirteen credit hours of electives from the approved list. The list is not all inclusive. Other technical elective courses may be taken with approval of the program coordinator. <sup>2</sup>		13
Subtotal		13
<b>Total Credits</b>		<b>48-56</b>

<sup>1</sup> Digital Literacy course - 3 credit hours or Demonstrated Competency - 0 credit hours

<sup>2</sup> Industrial Maintenance Technology approved technical elective list (<https://catalog.kctcs.edu/programs-of-study/aas/industrial-maintenance-technology/#technicalelectivestext>)