#### BLUEGRASS COMMUNITY AND TECHNICAL COLLEGE

## Industrial Maintenance Technology Associate of Applied Science

Academic Plan Code – 4703037019

An understanding of the requirements and opportunities in maintenance, good safety practices, pride in workmanship, and an understanding of the principles and accepted practices of the maintenance trade are covered in this program.

Students are trained to hold positions in factories, hospitals, hotels, etc., where multi-skilled maintenance personnel are needed. Included are courses in air conditioning, carpentry, electricity, machine tool, metal fabrication, and welding.

Progression in the Industrial Maintenance Technology program is contingent upon achievement of a grade of "C" or better in each technical course and maintenance of a 2.0 cumulative grade point average or better (on a 4.0 scale).

Course Number	Course Title	Credit Hours	
	General Education Core		
MA109	College Algebra OR	3	
MAT150	College Algebra and Functions OR	3	
MAT126	Technical Algebra and Trigonometry OR	3	
MAT116	Technical Mathematics	3	
	Science	3	
ENG101	Writing I	3	
	Social Interaction	3	
	Oral Communications	3	
	Heritage/Humanities /Foreign Language	3	
	Subtotal Credit Hours:	18	
	<b>Technical Core or Support Courses</b>		
IMT110	Industrial Maint. Elec Principles AND	3	
IMT111	Industrial Maint. Elec Principles <b>OR</b>	2	
ELT110	Circuits I AND	5	
ELT114	Circuits II	5	
IMT150	Maintaining Industrial Equipment I	3	
IMT151	Maintaining Industrial Equipment I Lab	2	
BRX120	Basic Blueprint Reading <b>OR</b>	3	
BRX110	Basic Blueprint Reading for Mach <b>OR</b>	2	
BRX112	Blueprint Reading for Machinist OR	4	
ELT102	Blueprint Reading	2	
FPX100	Fluid Power AND	3	
FPX101	Fluid Power Lab <b>OR</b>	2	
ELT265	Applied Fluid Power	3	
EET270	Electrical Motor Controls I AND	2	
EET271	Electrical Mot Controls I Lab <b>OR</b>	2	
ELT244	Electrical Machinery and Controls <b>OR</b>	4	
EET264	Rotating Machinery AND	2	

EET265	Rotating Machinery Lab	2
WLD120	Shielded Metal Arc Welding AND	3
WLD121	Shielded Metal Arc Welding Lab <b>OR</b>	2
WLD152	Basic Welding B OR	5
IMT100	Welding for Maintenance	3
IMT101	Welding for Maintenance Lab	2
	Computer Literacy	3
	Technical Electives	18
	Subtotal Credit Hours	45-57
	Total Credit Hours	63-75

# Industrial Maintenance Technology Diploma

## **Industrial Maintenance Technician**

Academic Plan - 4703034049

Course Number	Course Title	Credit Hours
General Education Core		
MA109	College Algebra OR	
MAT150	College Algebra and Functions <b>OR</b>	3
MAT126	Technical Algebra and Trigonometry OR	3
MAT115	Technical Mathematics	3
	Choose any one (1) on the following	
	Science <b>OR</b>	3
ENG101	Writing I <b>OR</b>	3
	Social Interaction <b>OR</b>	3
	Oral Communications <b>OR</b>	3
	Heritage/Humanities	3
	Subtotal Credit Hours	6
	Technical Core or Support Courses	
IMT110	Industrial Maint. Elec Principles AND	3
IMT111	Industrial Maint. Elec Principles AND	2
ELT110	Circuits I AND	5
ELT110 ELT114	Circuits II	5
IMT150	Maintaining Industrial Equipment I	3
IMT151	Maintaining Industrial Equipment I Lab	2
BRX120	Basic Blueprint Reading <b>OR</b>	3
BRX110	Basic Blueprint Reading for Mach <b>OR</b>	2
BRX112	Blueprint Reading for Machinist <b>OR</b>	4
ELT102	Blueprint Reading	2
FPX100	Fluid Power <b>AND</b>	3
FPX101	Fluid Power Lab <b>OR</b>	2
ELT265	Applied Fluid Power	3
EET270	Electrical Motor Controls I AND	2
EET271	Electrical Mot Controls I Lab <b>OR</b>	2
ELT244	Electrical Machinery and Ctrls <b>OR</b>	4
EET264	Rotating Machinery AND	2
EET265	Rotating Machinery Lab	2
WLD120	Shielded Metal Arc Welding <b>AND</b>	3
WLD120 WLD121	Shielded Metal Arc Welding Lab <b>OR</b>	2
WLD152	Basic Welding B	5
IMT100	Welding for Maintenance	3
IMT101	Welding for Maintenance Lab	2

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Comp	uter Literacy	3
Techr	ical Electives	15
	Subtotal Credit Hours	42-54
	Total Credit Hours	48-60

# **Industrial Maintenance Technology Certificates**

### Fluid Power Mechanic

Academic Plan Code - 4703033129

Course Number	Course Title	Credit Hours
FPX100	Fluid Power <b>AND</b>	3
FPX101	Fluid Power Lab <b>OR</b>	2
MST200	Advanced Hydraulic Systems AND	3
MST201	Advanced Hydraulic Systems Lab <b>OR</b>	3
MST204	Advanced Pneumatic Systems AND	3
MST205	Advanced Pneumatic Systems Lab	2
	Total Credit Hours	10

#### **Electrical Mechanic**

Academic Plan Code - 4703033159

IMT110	Industrial Maint. Elec Principles <b>AND</b>	3
IMT111	Industrial Maint. Elec Principles <b>OR</b>	2
ELT110	Circuits I AND	5
ELT114	Circuits II	5
FPX100	Fluid Power AND	3
FPX101	Fluid Power Lab <b>OR</b>	2
ELT265	Applied Fluid Power	3
EET270	Electrical Motor Controls I AND	2
EET271	Electrical Mot Controls I Lab <b>OR</b>	2
ELT244	Electrical Machinery and Ctrls <b>OR</b>	4
EET264	Rotating Machinery AND	2
EET265	Rotating Machinery Lab <b>OR</b>	2
IMT220	Industrial Maint. Elec. Mtr Ctrls I AND	3
IMT221	Indust. Maint. Elec. Mtr Ctrls I Lab <b>OR</b>	2
IMT120	Industrial Maint. Rotating Mach. AND	3
IMT121	Industrial Maint. Rotating Mach. Lab OR	2
IMT280	Advance PLCs AND	3
IMT281	Advance PLCs Lab <b>OR</b>	2
EET276	PLCs AND	2
EET277	PLCs Lab	2
_	Total Credit Hours	11-20

#### **Machinists Mechanic**

Academic Plan Code - 4703033119

IMT150	Maintaining Industrial Equipment I	3
IMT151	Maintaining Industrial Equipment I Lab	2
BRX120	Basic Blueprint Reading	3
MMT114	Fundamentals of Machine Tool <b>OR</b>	7
MMT110	Fundamentals of Machine Tool A AND	3
MMT112	Fundamentals of Machine Tool B	4
IMT100	Welding for Maintenance AND	3
IMT101	Welding for Maintenance Lab <b>OR</b>	2
WLD120	Shielded Metal Arc Welding AND	3

WLD152	Basic Welding B	5
	Total Credit Hours	20-21

#### Mechanic Level I

Academic Plan Code - 4703033139

IMT110	Industrial Maint. Elec Principles AND	3
IMT111	Industrial Maint. Elec Principles <b>OR</b>	2
ELT110	Circuits I AND	5
ELT114	Circuits II	5
IMT150	Maintaining Industrial Equipment I	3
IMT151	Maintaining Industrial Equipment I Lab	2
FPX100	Fluid Power <b>AND</b>	3
FPX101	Fluid Power Lab <b>OR</b>	2
ELT265	Applied Fluid Power	3
	Total Credit Hours	12-20

### **Mechanic Level II**

Academic Plan Code - 4703033149

BRX120	Basic Blueprint Reading <b>OR</b>	3
ELT102	Blueprint Reading	2
IMT110	Industrial Maint. Elec Principles AND	3
IMT111	Industrial Maint. Elec Principles <b>OR</b>	2
ELT110	Circuits I AND	5
ELT114	Circuits II	5
FPX100	Fluid Power <b>AND</b>	3
FPX101	Fluid Power Lab <b>OR</b>	2
ELT265	Applied Fluid Power	3
IMT100	Welding for Maintenance AND	3
IMT101	Welding for Maintenance Lab <b>OR</b>	2
WLD120	Shielded Metal Arc Welding AND	3
WLD121	Shielded Metal Arc Welding Lab <b>OR</b>	2
WLD152	Basic Welding B	5
MMT114	Fundamentals of Machine Tool <b>OR</b>	7
MMT110	Fundamentals of Machine Tool A AND	3
MMT11 1	Fundamentals of Machine Tool B	4
	Total Credit Hours	21-31