

**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
<b>General Education Core</b>		
MA109	College Algebra OR	3
MT150	College Algebra and Functions OR	3
MT125	Technical Algebra and Trigonometry OR	3
MT115	Technical Mathematics	3
	Science	3
ENG101	Writing I	3
	Social Interaction	3
	Oral Communications	3
	Heritage/Humanities	3
	<b>Subtotal Credit Hours:</b>	<b>18</b>
<b>Technical Core or Support Courses</b>		
IMT110	Industrial Maint. Elec Principles AND	3
IMT111	Industrial Maint. Elec Principles OR	2
ENGT110	Circuits I AND	5
ENGT114	Circuits II	5
IMT150	Maintaining Industrial Equipment I	3
IMT151	Maintaining Industrial Equipment I Lab	2
BRX120	Basic Blueprint Reading OR	3
BRX110	Basic Blueprint Reading for Mach OR	2
BRX112	Blueprint Reading for Machinist OR	4
ET102	Blueprint Reading	2
FPX100	Fluid Power AND	3
FPX101	Fluid Power Lab OR	2
ET265	Applied Fluid Power	3
EET270	Electrical Motor Controls I AND	2
EET271	Electrical Mot Controls I Lab OR	2
ET244	Electrical Machinery and Controls OR	4
EET264	Rotating Machinery AND	2
EET265	Rotating Machinery Lab	2

(Courses are listed by category and not necessarily in the order to be taken)

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

**Industrial Maintenance Technology  
Diploma**

**Industrial Maintenance Technician**

Academic Plan - 4703034049

Course Number	Course Title	Credit Hours
<b>General Education Core</b>		
MA109	College Algebra OR	
MT150	College Algebra and Functions OR	3
MT125	Technical Algebra and Trigonometry OR	3
MT115	Technical Mathematics	3
	<b>Choose any one (1) on the following</b>	
	Science OR	3
ENG101	Writing I OR	3
	Social Interaction OR	3
	Oral Communications OR	3
	Heritage/Humanities	3
	<b>Subtotal Credit Hours</b>	<b>6</b>
<b>Technical Core or Support Courses</b>		
IMT110	Industrial Maint. Elec Principles AND	3
IMT111	Industrial Maint. Elec Principles OR	2
ENGT110	Circuits I AND	5
ENGT114	Circuits II	5
IMT150	Maintaining Industrial Equipment I	3
IMT151	Maintaining Industrial Equipment I Lab	2
BRX120	Basic Blueprint Reading OR	3
BRX110	Basic Blueprint Reading for Mach OR	2
BRX112	Blueprint Reading for Machinist OR	4
ET102	Blueprint Reading	2
FPX100	Fluid Power AND	3
FPX101	Fluid Power Lab OR	2
ET265	Applied Fluid Power	3
EET270	Electrical Motor Controls I AND	2
EET271	Electrical Mot Controls I Lab OR	2
ET244	Electrical Machinery and Ctrls OR	4
EET264	Rotating Machinery AND	2
EET265	Rotating Machinery Lab	2
WLD120	Shielded Metal Arc Welding AND	3
WLD121	Shielded Metal Arc Welding Lab OR	2
WLD152	Basic Welding B	5
	Computer Literacy	3
	Technical Electives	15
	<b>Subtotal Credit Hours</b>	<b>42-54</b>
	<b>Total Credit Hours</b>	<b>48-60</b>

2009-10

**BLUEGRASS COMMUNITY AND TECHNICAL COLLEGE**

**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 <b>AND</b>	3
MST201	Advanced Hydraulic Systems Lab <b>OR</b>	3
MST204	Advanced Pneumatic Systems <b>AND</b>	3
MST205	Advanced Pneumatic Systems Lab	2
<b>Total Credit Hours</b>		<b>10</b>

**Electrical Mechanic**

Academic Plan Code - 4703033159

IMT110	Industrial Maint. Elec Principles <b>AND</b>	3
IMT111	Industrial Maint. Elec Principles <b>OR</b>	2
ENGT110	Circuits I <b>AND</b>	5
ENGT114	Circuits II	5
FPX100	Fluid Power <b>AND</b>	3
FPX101	Fluid Power Lab <b>OR</b>	2
ET265	Applied Fluid Power	3
EET270	Electrical Motor Controls I <b>AND</b>	2
EET271	Electrical Mot Controls I Lab <b>OR</b>	2
ET244	Electrical Machinery and Ctrl's <b>OR</b>	4
EET264	Rotating Machinery <b>AND</b>	2
EET265	Rotating Machinery Lab <b>OR</b>	2
IMT220	Industrial Maint. Elec. Mtr Ctrl's I <b>AND</b>	3
IMT221	Indust. Maint. Elec. Mtr Ctrl's I Lab <b>OR</b>	2
IMT120	Industrial Maint. Rotating Mach. <b>AND</b>	3
IMT121	Industrial Maint. Rotating Mach. Lab <b>OR</b>	2
IMT280	Advance PLCs <b>AND</b>	3
IMT281	Advance PLCs Lab <b>OR</b>	2
EET276	PLCs <b>AND</b>	2
EET277	PLCs Lab	2
<b>Total Credit Hours</b>		<b>11-20</b>

**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 <b>AND</b>	3
MMT112	Fundamentals of Machine Tool B	4
IMT100	Welding for Maintenance <b>AND</b>	3
IMT101	Welding for Maintenance Lab <b>OR</b>	2
WLD120	Shielded Metal Arc Welding <b>AND</b>	3
WLD121	Shielded Metal Arc Welding Lab <b>OR</b>	2
WLD152	Basic Welding B	5
<b>Total Credit Hours</b>		<b>20-21</b>

**Mechanic Level I**

(Courses are listed by category and not necessarily in the order to be taken)

Academic Plan Code - 4703033139

IMT110	Industrial Maint. Elec Principles <b>AND</b>	3
IMT111	Industrial Maint. Elec Principles <b>OR</b>	2
ENGT110	Circuits I <b>AND</b>	5
ENGT114	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
ET265	Applied Fluid Power	3
<b>Total Credit Hours</b>		<b>12-20</b>

**Mechanic Level II**

Academic Plan Code - 4703033149

BRX120	Basic Blueprint Reading <b>OR</b>	3
ET102	Blueprint Reading	2
IMT110	Industrial Maint. Elec Principles <b>AND</b>	3
IMT111	Industrial Maint. Elec Principles <b>OR</b>	2
ENGT110	Circuits I <b>AND</b>	5
ENGT114	Circuits II	5
FPX100	Fluid Power <b>AND</b>	3
FPX101	Fluid Power Lab <b>OR</b>	2
ET265	Applied Fluid Power	3
IMT100	Welding for Maintenance <b>AND</b>	3
IMT101	Welding for Maintenance Lab <b>OR</b>	2
WLD120	Shielded Metal Arc Welding <b>AND</b>	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 <b>AND</b>	3
MMT11	Fundamentals of Machine Tool B	4
<b>Total Credit Hours</b>		<b>21-31</b>