

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 or MT150	College Algebra and Functions OR	3
MT125	Technical Algebra and Trigonometry OR	3
	Science	3
ENG101	Writing I	3
	Social Interaction	3
	Oral Communications	3
	Heritage/Humanities	3
	Subtotal Credit Hours:	18
Technical Core or Support Courses		
IMT110	Industrial Maint. Elec Principles AND	3
IMT111	Industrial Maint. Elec Principles OR	2
ENGT110	Circuits I** AND	3
ENGT111	Circuits I Lab 1** AND	1
ENGT113	Circuits I Lab 2** AND	1
ENGT114	Circuits II ** AND	3
ENGT115	Circuits II Lab 1** AND	1
ENGT117	Circuits II Lab 2**	1
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	4

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

	OR	
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	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		
MT150	College Algebra and Functions OR	3
MT125	Technical Algebra and Trigonometry OR	3
MT115	Technical Mathematics	3
	Choose any one (1) on the following	
	Science OR	3
ENG101	Writing I OR	3
	Social Interaction OR	3
	Oral Communications OR	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 OR	2
ENGT110	Circuits I** AND	2
ENGT111	Circuits I Lab 1** AND	1
ENGT113	Circuits I Lab 2** AND	1
ENGT114	Circuits II ** AND	3
ENGT115	Circuits II Lab 1** AND	1
ENGT117	Circuits II Lab 2**	1
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

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WLD152	Basic Welding B	5
	Computer Literacy	3
	Technical Electives	15
	Subtotal Credit Hours	42-54
	Total Credit Hours	48-60

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 OR	2
WLD120	Shielded Metal Arc Welding AND	3
WLD121	Shielded Metal Arc Welding Lab OR	2
WLD152	Basic Welding B	5
	Total Credit Hours	20-21

Industrial Maintenance Technology Certificates

Fluid Power Mechanic Academic Plan Code - 4703033129

Course Number	Course Title	Credit Hours
FPX100	Fluid Power AND	3
FPX101	Fluid Power Lab OR	2
MST200	Advanced Hydraulic Systems AND	3
MST201	Advanced Hydraulic Systems Lab OR	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 AND	3
IMT111	Industrial Maint. Elec Principles OR	2
ENGT110	Circuits I** AND	3
ENGT111	Circuits I Lab 1** AND	1
ENGT113	Circuits I Lab 2** AND	1
ENGT114	Circuits II ** AND	3
ENGT115	Circuits II Lab 1** AND	1
ENGT117	Circuits II Lab 2**	1
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 Ctrl's OR	4
EET264	Rotating Machinery AND	2
EET265	Rotating Machinery Lab OR	2
IMT220	Industrial Maint. Elec. Mtr Ctrl's I AND	3
IMT221	Indust. Maint. Elec. Mtr Ctrl's I Lab OR	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 OR	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 OR	7

Mechanic Level I

Academic Plan Code - 4703033139

IMT110	Industrial Maint. Elec Principles AND	3
IMT111	Industrial Maint. Elec Principles OR	2
ENGT110	Circuits I** AND	3
ENGT111	Circuits I Lab 1** AND	1
ENGT113	Circuits I Lab 2** AND	1
ENGT114	Circuits II ** AND	3
ENGT115	Circuits II Lab 1** AND	1
ENGT117	Circuits II Lab 2**	1
IMT150	Maintaining Industrial Equipment I	3
IMT151	Maintaining Industrial Equipment I Lab	2
FPX100	Fluid Power AND	3
FPX101	Fluid Power Lab OR	2
ET265	Applied Fluid Power	3
	Total Credit Hours	12-20

Mechanic Level II

Academic Plan Code - 4703033149

BRX120	Basic Blueprint Reading OR	3
ET102	Blueprint Reading	2
IMT110	Industrial Maint. Elec Principles AND	3
IMT111	Industrial Maint. Elec Principles OR	2
ENGT110	Circuits I** AND	3
ENGT111	Circuits I Lab 1** AND	1
ENGT113	Circuits I Lab 2** AND	1
ENGT114	Circuits II ** AND	3
ENGT115	Circuits II Lab 1** AND	1
ENGT117	Circuits II Lab 2**	1
FPX100	Fluid Power AND	3
FPX101	Fluid Power Lab OR	2
ET265	Applied Fluid Power	3
IMT100	Welding for Maintenance AND	3
IMT101	Welding for Maintenance Lab OR	2
WLD120	Shielded Metal Arc Welding AND	3
WLD121	Shielded Metal Arc Welding Lab OR	2
WLD152	Basic Welding B	5
MMT114	Fundamentals of Machine Tool OR	7
MMT110	Fundamentals of Machine Tool A AND	3
MMT111	Fundamentals of Machine Tool B	4
	Total Credit Hours	21-31