

## MANUFACTURING INDUSTRIAL TECHNOLOGY: ELECTRICAL TECHNOLOGY

## Motor Controls Electrician Track

## Diploma

Academic Plan Code 4603024049

Academic Subplan Code 460302403

<b>Contact Information:</b> Brad Newborn				
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Student Name		Student ID#		
	Course	Hours	Grade	Semester
<b>GENERAL EDUCATION</b>				
Area 1: Writing/Accessing Information OR Humanities/Heritage OR Oral Communications		3 (3) (3)		
Area 2: MAT 116 Technical Mathematics OR MAT 126 Technical Algebra and Trigonometry OR Higher Level Quantitative Reasoning Course		3 (3)		
General Education Subtotal		6		
<b>TECHNICAL CORE</b>				
ELT 110 Circuits I OR EET 119 Basic Electricity		5 (5)		
Approved Course(s) from Technical Core List: Pick a course(s) for a minimum of 4 credits and a maximum of 5 credits from this list. This list is not all-inclusive. Other courses may be substituted at the discretion of the program instructor/coordinator.		4-5		
ELT 114 Circuits II		(5)		
EET 150 Transformers AND		(2)		
EET 151 Transformers Lab		(1)		
ELT 260 Robotics and Industrial Automation		(5)		
EET 276 Programmable Logic Controllers		(2)		
EET 277 Programmable Logic Controllers Lab		(2)		
EET 250 National Electric Code		4		
EET 264 Rotating Machinery*		2		
EET 265 Rotating Machinery Lab		2		
EET 270 Electrical Motor Controls I		2		
EET 271 Electrical Motor Controls I Lab		2		
EET 127 Electrical Capstone		1		
Digital Literacy OR		3		
If any student successfully tests out of Digital Literacy, he/she must take an additional Technical Course approved by the Electrical Program Coordinator.		(3)		
Technical Core Subtotal		25-26		
<b>MOTOR CONTROLS ELECTRICIAN CORE</b>				
EET 272 Electrical Motor Controls II AND		2		
EET 273 Electrical Motor Controls II Lab AND		2		
EET 276 Programmable Logic Controllers AND		2		
EET 277 Programmable Logic Controllers Lab		2		
FPX 100 Fluid Power		3		
FPX 101 Fluid Power Lab OR		2		
ELT 265 Applied Fluid Power		(3)		
Technical Electives*		7		
Motor Controls Electrician Core Subtotal		17-20		
<b>Total Credits</b>		<b>48-52</b>		
*Technical Electives: See program instructor/coordinator for approved electives.				
Revised Date: 9/29/2016				

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KENTUCKY COMMUNITY &amp; TECHNICAL COLLEGE SYSTEM

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<b>First Semester</b>		
Course No.	Course Title	Credit Hours
ELT 110	Circuits I OR	5
EET 119	Basic Electricity	(5)
	Area 2: Mat 116 Technical Mathematics OR	3
	MAT 126 Technical Algebra and Trigonometry OR Higher Level Quantitative Reasoning Course	(3)
	Area 1: Writing/Accessing Information OR	3
	Humanities/Heritage OR	(3)
	Oral Communications	(3)
	Digital Literacy OR If any student successfully tests out of Digital Literacy, he/she must take an additional Technical Course approved by the Electrical Program Coordinator. (Recommend CAD 103 CAD Fundamentals, Extra credit hour will apply towards technical elective)	3 -(4)
	Subtotal	14 - (15)
<b>Second Semester</b>		
Course No.	Course Title	Credit Hours
EET 264	Rotating Machinery AND	2
EET 265	Rotating Machinery Lab OR Substitute with	2
	Technical Electives* (Recommended EET 254 Electrical Construction and EET 255 Electrical Construction Lab)	7
	Subtotal	11
<b>Third Semester</b>		
Course No.	Course Title	Credit Hours
EET 270	Electrical Motor Controls I AND	2
EET 271	Electrical Motor Controls I Lab AND	2
EET 272	Electrical Motor Controls II AND	2
EET 273	Electrical Motor Controls II Lab	2
	Approved Course(s) from Technical Core List	4-5
	Subtotal	12-13
<b>Fourth Semester</b>		
Course No.	Course Title	Credit Hours
EET 276	Programmable Logic Controllers	2
EET 277	Programmable Logic Controllers Lab	2
EET 250	National Electric Code	4
EET 127	Electrical Capstone	1
FPX 100	Fluid Power	3
FPX 101	Fluid Power Lab OR	2
ELT 265	Applied Fluid Power	(3)
	Subtotal	12-14
	Grand Total	48-52
*The Technical and Support requirements must include a work experience component of 1-12 credit hours.		
Courses in lower credentials may have been taken in combination and can be substituted with approval of program coordinator.		
Program Coordinator Notes: Students enrolled in the Electrical Technology program are required to achieve a minimum grade of "C" in the technical core and in those courses selected as technical electives. It is the ultimate responsibility of the student to stay current with the curriculum requirements.		