

**MOTT COMMUNITY COLLEGE
APPRENTICE CURRICULAR GUIDE**

Name	Trade	Electrician
Company	Total Hours	576
State of MI Apprentice Reg. #	Date Revised	April , 2010

This is a suggested curricular guide, companies may request additions, deletions, etc.

Course No.	Course Name	Prereq.	Credits	Clock Hrs
ELEC 110	Electrical Industry Orientation	None	1	16
ELEC 131	Residential Electric Wiring	None	3	64
ELEC 133	Electrical Circuits	ELEC 131	3	64
ELEC 135	Electronic Components and Applications	ELEC 131 / 133	6	128
ELEC 139	Logical Control Systems	ELEC 131 / 133	6	128
ELEC 140	Electrical Principles of Fire Alarm and Safety Systems	ELEC 131 / 133	1	16
ELEC 150	National Electric Code	ELEC 131 / 133	3	48
ELEC 151	Sizing of Commercial / Industrial Electric Systems	ELEC 150	3	48
ELEC 235	Industrial Electronics	ELEC 135 / 139	6	128
TECH 102	Industrial Safety	None	2	32
MATH 128 (or higher)	Technical Mathematics / (or higher)	None (placement)	5	80
		Subtotals:	39	752
	ELECTIVES			
ELEC 233	Embedded Controllers	ELEC 135 / 139	6	128
ELEC 231	Fundamentals of LabView	ELEC 135 / 139	6	128
CADD 100	Mechanical Blueprint Reading w/CADD	None	3	64
MECH 143	Welding Processes	None	3	64
RFID 180	Fundamentals of Radio Frequency Identification	None	3	64
MDES 101	Modern Industrial Robotics I	None	3	64
TECH 100	Intro to Renewable Energy Technology	None	3	64
COMN 114	Fundamentals of Network Cabling	COMN 112	2	32

SUGGESTED COURSE SEQUENCE

1ST Year

MATH 128	5cr
ELEC 110	1cr
ELEC 131	3cr
ELEC 133	3cr

2ND Year

ELEC 150	3cr
TECH 102	2cr
ELEC 135	6cr

3rd Year

ELEC 139	6cr
ELEC 151	3cr

4th Year

ELEC 235	6cr
ELEC 140	1cr

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