

Penn Foster's Michigan Electrical Apprenticeship program

Course Title	Course Number	PF Price	Course Duration
Year 1:			
Working Safely with Electricity	*4400	\$65.00	10 hours
Basic Industrial Math	*Block X31	\$390.00	30 hours
Addition and Subtraction	*186303	(\$65.00)	(5 hours)
Multiplication and Division	*186304	(\$65.00)	(5 hours)
Fractions, Percents, Proportions, and Angles	*186305	(\$65.00)	(5 hours)
Metric System	*186306	(\$65.00)	(5 hours)
Formulas	*186307	(\$65.00)	(5 hours)
Introduction to Algebra	*186308	(\$65.00)	(5 hours)
Problem Solving and Troubleshooting	186073	\$65.00	10 hours
Electrical Equipment, Part 1	*006027	\$65.00	10 hours
Electrical Equipment, Part 2	*006028	\$65.00	10 hours
Conductors	006014	\$65.00	10 hours
Working With Conduit	006015	\$65.00	10 hours
Wiring Electrical Components, Part 1	*006029	\$65.00	10 hours
Wiring Electrical Components, Part 2	006030	\$65.00	10 hours
Working with Multimeters	006021	\$65.00	10 hours
DC Principles	*Block A31	\$***.00	30 hours
Nature of Electricity	*086112	(\$65.00)	(5 hours)
Circuit Analysis and Ohm's Law	*086113	(\$65.00)	(5 hours)
Capacitors and Inductors	*086114	(\$65.00)	(5 hours)
Magnetism and Electromagnetism	*086115	(\$65.00)	(5 hours)
Conductors, Insulators, and Batteries	*086116	(\$65.00)	(5 hours)
Year 2:			
DC Motors and Generator Theory	*086117	(\$65.00)	(5 hours)
AC Principles	*Block A32	\$520.00	40 hours
Alternating Current	*086118	(\$65.00)	(5 hours)
Alternating Current Circuits	*086119	(\$65.00)	(5 hours)
Inductors in AC Circuits	*086120	(\$65.00)	(5 hours)
Capacitors in AC Circuits	*086121	(\$65.00)	(5 hours)
Transformers	*086122	(\$65.00)	(5 hours)
Alternators	*086123	(\$65.00)	(5 hours)
Electrical Energy Distribution	*086124	(\$65.00)	(5 hours)
Rectification and Basic Electronic Devices	*086125	(\$65.00)	(5 hours)
Electrical Blueprint Reading	*006036	\$65.00	10 hours
Reading Electrical Schematic Diagrams	006022	\$65.00	10 hours
Electrical Equipment	*Block A24	\$780.00	60 hours
Conductors and Insulators in Industry	*086070	(\$65.00)	(5 hours)
Working with Conduit	*086071	(\$65.00)	(5 hours)
Electrical Boxes	*086072	(\$65.00)	(5 hours)
Industrial Enclosures and Raceways	*086073	(\$65.00)	(5 hours)
Connecting Electrical Equipment, Part 1	*086074	(\$65.00)	(5 hours)
Connecting Electrical Equipment, Part 2	*086075	(\$65.00)	(5 hours)
Industrial Fuses	*086076	(\$65.00)	(5 hours)

Industrial Circuit Breakers	*086077	(\$65.00)	(5 hours)
Plugs, Receptacles, and Lampholders	*086078	(\$65.00)	(5 hours)
Industrial Switches	*086079	(\$65.00)	(5 hours)
Industrial Relay Ladder Logic	*086080	(\$65.00)	(5 hours)
Industrial Relays, Contractors, and Solenoids	*086081	(\$65.00)	(5 hours)
Transformers	*4040	\$65.00	10 hours
Transformer Operation	*4041	\$65.00	10 hours
Distribution and Power Transformers	*4042	\$65.00	10 hours

Year 3:

Industrial DC Motors	*086051	\$65.00	10 hours
Industrial AC Motors	*086052	\$65.00	10 hours
Controlling Industrial Motors	*086053	\$65.00	10 hours
National Electrical Code (2020 Text/Course)	*5177EM	\$415.00	60 hours
Michigan Rules & Regulations, Parts 1 & 2	*MAA8A	\$165.00	15 hours
Fire Alarm Systems – NFPA 72 (replaces MAA8B)	*986M08	\$405.00	25 hours
Alternating Current Motors	*4032	\$65.00	10 hours
Industrial Motor Applications (replaces 4341)	*086093	\$65.00	10 hours
Motor Control Fundamentals (for PLC's)	*006010	\$65.00	10 hours

Year 4:

Industrial Motor Controls, Parts 1 - 3	*6699A-C	\$195.00	30 hours
Industrial Motor Control (for PLC's), Part 1	*006011	\$65.00	10 hours
Industrial Motor Control (for PLC's), Part 2	*006012	\$65.00	10 hours
Protective Relaying, Parts 1 & 2	*6538A-B	\$130.00	20 hours
Electrical Grounding	*086E01	\$165.00	25 hours
Electrical Wiring Practices	*086E02	\$165.00	20 hours
Control Technology for Technicians	*286M04	\$415.00	45 hours

Duration: 620 hours:

Year 1 = 145 hours

Year 2 = 155 hours

Year 3 = 160 hours

Year 4 = 160 hours

Cost:

Year 1 = \$1,365.00 (\$1,300 + \$65 s/h)

Year 2 = \$1,774.50 (\$1,690 + \$84.50 s/h)

Year 3 = \$1,443.75 (\$1,375 + \$68.75 s/h)

Year 4 = \$1,260.00 (\$1,200 + \$60 s/h)