Electrician: Industrial

Certificate in Applied Science
Credit Requirements: 36 Semester Credit Hours
Day

The Electrician: Industrial certificate program prepares you for employment as an industrial maintenance electrician. Emphasis is placed on electrical/electronic theory and industrial electrical equipment such as motors, transformers, motor control systems, drive systems and programmable controllers. Special emphasis is placed on developing troubleshooting skills.

Admission into this program requires qualifying scores on SAT, ACT or TTC’s placement test. High school graduation is not required if you are at least 18 years old.

Recommended Sequence of Courses
First Semester – Fall
EEM 107 Industrial Computer Techniques 2
EEM 113 DC Circuits I 2
EEM 114 DC Circuits II 2
EEM 167 Commercial/Industrial Wiring I 2
EEM 168 Commercial/Industrial Wiring II 2
Total 10

Second Semester – Spring
EEM 119 AC Circuits I 2
EEM 120 AC Circuits II 2
EEM 129 Solid State Devices I 2
EEM 130 Solid State Devices II 2
Total 8

Third Semester – Summer
EEM 218 AC/DC Machines with Electrical Codes I 2
EEM 219 AC/DC Machines with Electrical Codes II 2
EEM 221 DC/AC Drives 3
EEM 251 Programmable Controllers 3
Total 10

Fourth Semester – Fall
EEM 138 National Electrical Code I 2
EEM 139 National Electrical Code II 2
EEM 151 Motor Controls I 4
Total 8

Important information about the educational debt, earnings, and completion rates of students who attended this program can be found in section D.

Electrician: Industrial

Certificate in Applied Science
Credit Requirements: 36 Semester Credit Hours
Evening

The Electrician: Industrial certificate program prepares you for employment as an industrial maintenance electrician. Emphasis is placed on electrical/electronic theory and industrial electrical equipment such as motors, transformers, motor control systems, drive systems and programmable controllers. Special emphasis is placed on developing troubleshooting skills.

Admission into this program requires qualifying scores on SAT, ACT or TTC’s placement test. High school graduation is not required if you are at least 18 years old.

Recommended Sequence of Courses
First Semester – Spring
EEM 113 DC Circuits I 2
EEM 114 DC Circuits II 2
Total 4

Second Semester – Summer
EEM 107 Industrial Computer Techniques 2
EEM 119 AC Circuits I 2
EEM 120 AC Circuits II 2
Total 6

Third Semester – Fall
EEM 129 Solid State Devices I 2
EEM 130 Solid State Devices II 2
EEM 218 AC/DC Machines with Electrical Codes I 2
EEM 219 AC/DC Machines with Electrical Codes II 2
Total 8

Fourth Semester – Spring
EEM 138 National Electrical Code I 2
EEM 139 National Electrical Code II 2
EEM 151 Motor Controls I 4
Total 8

Fifth Semester – Summer
EEM 221 DC/AC Drives 3
Total 3

Sixth Semester – Fall
EEM 167 Commercial/Industrial Wiring I 2
EEM 168 Commercial/Industrial Wiring II 2
EEM 251 Programmable Controllers 3
Total 7