

2024-2025 TTC Catalog

Electrician - Industrial

Certificate in Applied Science

27 Credit Hours

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.

Major Requirements

EEM 113 DC Circuits I 2
EEM 114 DC Circuits II 2
EEM 119 AC Circuits I 2
EEM 120 AC Circuits II 2
EEM 138 National Electrical Code I 2
EEM 139 National Electrical Code II 2
EEM 151 Motor Controls I 4
EEM 167 Commercial-Industrial Wiring I 2
EEM 168 Commercial-Industrial Wiring II 2
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

Total: 27

Admission Requirements

Students who are at least 18 years old and have acceptable scores from the SAT, ACT or placement test can be admitted into this program without a high school diploma or GED.