

# 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.