2019-2020 TTC Catalog

Electrician - Automated Controls

Certificate in Applied Science
36 Credit Hours

The Electrician: Automated Controls certificate program prepares you for employment in industry as an automated controls maintenance technician. Emphasis is placed on electrical/electronic theory, programmable controllers and their applications, instrumentation and process control systems, and hydraulic/pneumatic systems.

Major Requirements

EEM 107 Industrial Computer Techniques 2
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 129 Solid State Devices I 2
EEM 130 Solid State Devices II 2
EEM 221 DC AC Drives 3
EEM 251 Programmable Controllers 3
EEM 252 Programmable Controllers Applications 3
EIT 110 Principles of Instrumentation 3
EIT 244 Computers and PLCs in Instrumentation 3
IMT 132 Hydraulics 2
IMT 133 Pneumatics 2
IMT 163 Problem Solving for Mechanical Applications 3

Total: 36 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.