Electrician: Automated Controls

Certificate in Applied Science
Credit Requirements: 36 Semester Credit Hours

Day

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.

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
Total 6

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 221 DC/AC Drives 3
EEM 251 Programmable Controllers 3
Total 6

Fourth Semester – Fall
EEM 252 Programmable Controllers Applications 3
EIT 110 Principles of Instrumentation 3
IMT 132 Hydraulics 2
IMT 133 Pneumatics 2
Total 10

Fifth Semester – Spring
EIT 244 Computers and PLCs in Instrumentation 3
IMT 163 Problem Solving for Mechanical Applications 3
Total 6

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

Electrician: Automated Controls

Certificate in Applied Science
Credit Requirements: 36 Semester Credit Hours

Evening

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, and hydraulic/pneumatic systems.

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
IMT 132 Hydraulics 2
IMT 133 Pneumatics 2
Total 8

Fourth Semester – Spring
EEM 251 Programmable Controllers 3
Total 3

Fifth Semester – Summer
EEM 221 DC/AC Drives 3
EEM 252 Programmable Controllers Applications 3
Total 6

Sixth Semester – Fall
IMT 163 Problem Solving for Mechanical Applications 3
Total 3
Sextant Semester – Spring
EIT 110 Principles of Instrumentation 3
EIT 244 Computers and PLCs in Instrumentation 3
Total 6

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

Electrician: Construction

Certificate in Applied Science
Credit Requirements: 30 Semester Credit Hours

Day
The Electrician: Construction certificate program prepares you for employment in the electrical construction trade. Emphasis is placed on electrical theory, wiring techniques, electrical equipment installations and license preparation in accordance with the latest edition of the National Electrical Code.

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 113 DC Circuits I 2
EEM 114 DC Circuits II 2
EEM 163 Residential Wiring I 2
EEM 164 Residential Wiring II 2
EEM 167 Commercial/Industrial Wiring I 2
EEM 168 Commercial/Industrial Wiring II 2
Total 12

Second Semester – Spring
EEM 119 AC Circuits I 2
EEM 120 AC Circuits II 2
EEM 173 Electrical Installation I 2
EEM 174 Electrical Installation II 2
Total 8

Third Semester – Summer
EEM 107 Industrial Computer Techniques 2
EEM 110 Basic Industrial Skills I 2
EEM 111 Basic Industrial Skills II 2
Total 6

Fourth Semester – Fall
EEM 138 National Electrical Code I 2
EEM 139 National Electrical Code II 2
Total 4

Evening
The Electrician: Construction certificate program prepares you for employment in the electrical construction trade. Emphasis is placed on electrical theory, wiring techniques, electrical equipment installations and license preparation in accordance with the latest edition of the National Electrical Code.

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
EEM 163 Residential Wiring I 2
EEM 164 Residential Wiring II 2
Total 8

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 167 Commercial/Industrial Wiring I 2
EEM 168 Commercial/Industrial Wiring II 2
Total 4

Fourth Semester – Spring
EEM 138 National Electrical Code I 2
EEM 139 National Electrical Code II 2
EEM 173 Electrical Installation I 2
EEM 174 Electrical Installation II 2
Total 8

Fifth Semester – Summer
EEM 108 Basic Industrial Skills I 2
EEM 110 Basic Industrial Skills II 2
Total 4

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

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