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

**Esthetics**

**Certificate in Applied Science**

**Credit Requirements: 25 Semester Credit Hours**

This certificate program teaches basic skin care, various facials, makeup application, hair removal, sanitation procedures and salon management practices.

Admission into this program requires proof of high school graduation (or GED) and qualifying scores on SAT, ACT or the TTC placement test. (No correspondence schools)

**Recommended Sequence of Courses**

**First Semester**
- COS 151 Dermatology 3
- COS 156 Fundamentals of Massage 2
- COS 158 Facial Treatments 2
- COS 160 Electric Current Facial Treatments 1
- COS 172 Infection Control for Estheticians 1
- COS 251 Advanced Dermatology 3
- Total 12

**Second Semester**
- COS 162 Hair Removal 1
- COS 164 Basic Makeup and Application 3
- COS 167 Professional Practices for Estheticians 1
- COS 173 Anatomy for Estheticians 2
- COS 221 Facial Practice I 2
- COS 223 Facial Practice II 2
- COS 225 Advanced Spa Services 1
- COS 262 Advanced Hair Removal 1
- Total 13

**Golf Course Maintenance**

**Certificate in Applied Science**

**Credit Requirements: 23 Semester Credit Hours**

The Golf Course Maintenance certificate program provides short-term training for individuals employed in golf course maintenance and those wishing to enter the field. The program is structured so that novice students can develop basic skills, and those individuals currently employed at golf courses can upgrade their skills through formal course work combined with on-the-job training. This on-the-job training consists of supervised work experience in which students are placed at a golf course for hands-on practice with chemical and fertilizer application equipment as well as training in routine maintenance practices. Students must see the Horticulture faculty for more information.

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**
- HRT 110 Plant Form and Function 4
- HRT 125 Soils 4
- HRT 144 Plant Pests 3
- HRT 241 Turf Management 3
- **Total 14**

**Second Semester – Spring**
- HRT 240 Pesticides 4
- **Total 4**

**Third Semester – Summer**
- CWE 112 Cooperative Work Experience 2
- HRT 121 Commercial Irrigation 3
- **Total 5**

**Horticultural Sustainability**

**Certificate in Applied Science**

**Credit Requirements: 17 Semester Credit Hours**

The Horticultural Sustainability certificate addresses current environmental issues. Sustainable agriculture/horticulture has been practiced for many years, stressing the conservation of resources to maintain a sustainable environment. Students would be well-versed in new developments in landscape construction and current horticultural practices that minimize the impact on the environment.

Admission into this program requires proof of high school graduation (or GED) and qualifying scores on SAT, ACT or the TTC placement test.

**Recommended Sequence of Courses**

**First Semester – Fall**
- HRT 106 Ornamentals 2
- HRT 125 Soils 4
- HRT 144 Plant Pests 3
- HRT 153 Landscape Construction 3
- **Total 12**

**Second Semester – Spring**
- HRT 107 Woody Ornamentals 2
- HRT 169 Sustainability in Horticulture 3
- **Total 5**

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