

**EMT-Basic
Short-Term Certificate**

510904 EMT

| | Semester | | |
|---|-----------|--------|-------|
| | Theory | Lab | Hours |
| EMS 116 EMS Basic Theory and Lab | 6 | 3 (1E) | 9 |
| EMS 117 EMS Basic Clinical Competencies I | 0 | 3 (P3) | 1 |
| Total Semester Credit Hours | 10 | | |

EMS 100 and EMS 107 are not required for graduation but, are required by the State of Alabama to obtain licensures as an EMT Basic Driver.

EMS 106 Medical Terminology not required but highly recommended.

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**Energy Management
Technology
Short-Term Certificate**

150503 ECT

Available: Shoals Campus
Advisor: J. Hackworth (5335) joehackworth@nwscc.edu

The Energy Management certificate is offered to students in Heating and Air Conditioning, Industrial Electricity, and Industrial Electronics and in-field personnel who have a high school diploma or GED. This certificate would enable a student to enhance his/her career potential in the area of energy control and use technology. Students should contact advisor for further information.

Entering students are required to complete ORT 100. Transfer students are exempt from this requirement.

| | Semester | | |
|---|-----------|-----|-------|
| | Theory | Lab | Hours |
| ECT 241 Introduction to Energy Management | 1 | 6 | 3 |
| ECT 242 Audit-Accounting Conservation | 2 | 6 | 3 |
| ECT 243 Basic Energy Management Systems (ELT 231 Programmable Controls I) | 2 | 6 | 3 |
| ECT 244 Energy Management Systems (ELT 232 Programmable Controls II) | 2 | 6 | 3 |
| ECT 252 Advanced Energy Management (ELT 222 Advanced Electronics for the Electrician) | 2 | 6 | 3 |
| ECT 253 Direct Digital Control (ELT 221 Electronics for Electricians I) | 2 | 6 | 3 |
| ECT 254 Test and Balance Instrumentation (ACR 205 System Sizing and Air Distribution) | 2 | 6 | 3 |
| Electives | | | 3 |
| Total Semester Credit Hours | 24 | | |

Electives:

FSC 211 Building Construction and Related Codes
FSC 270 Fire Protection Systems
ACR 115 Heating Systems
ACR 123 HVACR Electrical Components
ACR 138 Customer Relation in HVAC
ACR 143 HVAC Industry Codes
ACR 182 Parallel Refrigeration
ACR 203 Commercial A/C
ACR 204 Commercial Air Conditioning
ELT 121 Basic AC/DC Machines
ELT 122 Advanced AC and DC Machines
ELT 131 Commercial/Industrial Wiring I
ELT 211 Motor Control I
ELT 212 Motor Control II
ELT 233 Applied Programmable Controls

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