

Emerald Coast Technical College
Program Syllabus

Air Conditioning , Refrigeration and Heating Technology 1

Program Name:	Number:	Program Hours:
Course Name	Course Number	Clock Hours
Air Conditioning, Refrigeration and Heating Helper	ACR0041	250
Air Conditioning, Refrigeration and Heating Mechanic Assistant	ACR0043	250
Air Conditioning, Refrigeration and Heating Mechanic 1	ACR0047	250
Total Clock Hours in Program		750

Instructor(s): James Love
HVAC Industry for over 30 years
Certified
State Certified Mechanical Contractor license
A.A. Degree
EPA 608 Universal certification
lovej@walton.k12.fl.us

Instructor(s): Redgie White
HVAC Industry for 30 years
Certified
State Certified Mechanical license
EPA 608 Universal Certification

Instructor(s) Jeff Falivene
HVAC Industry for 30 years
State Certified Mechanical License
EPA 608 Universal Certification

Program Description:

This program focuses on broad, transferable skills, stresses the understanding of the heating, air-conditioning, refrigeration and ventilation industry, and demonstrates elements of the industry such as planning, management, finance, technical and production skills, the underlying principles of technology, and health, safety, and environmental issues.

Prerequisites:

None

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Purpose : The purpose of the program reflects Emerald Coast Technical College’s mission as evidenced by the desire to provide students with the training and education that is required to function successfully in the professional workforce.

Industry Certification: For AC 1 Students

EPA 608 Universal Refrigerant Handlers Card
HVACE001 – HVAC Excellence Employment Ready - Heat Pump
HVACE002 – HVAC Excellence Employment Ready - Air Conditioning
HVACE003 – HVAC Excellence Employment Ready - Light Commercial Air Conditioning
HVACE004 – HVAC Excellence Employment Ready - Electric Heat
HVACE005 – HVAC Excellence Employment Ready - Light Commercial Refrigeration
HVACE006 – HVAC Excellence Employment Ready - Gas Heat



Occupational Completion Points:

OCP	Course Number	Course Title	Course Length	SOC Code
A	ACR0041	Air Conditioning, Refrigeration and Heating Helper	250	49-9021
B	ACR0043	Air Conditioning, Refrigeration and Heating Mechanic Assistant	250	49-9021
C	ACR0047	Air Conditioning, Refrigeration and Heating Mechanic 1	250	49-9021

Program Objectives and Outcomes: The program includes, but is not limited to:

1. Residential Air Conditioning, Heat Pump and Gas Furnace Service Installations
2. Class Lecture, Videos, Handouts
3. Customer service and human relations.
4. Employability skills.
5. Safe, efficient work practices.

Textbook:

Refrigeration & Air Conditioning Technology - Eighth Edition, Textbook ISBN-13 #: 978-1-305-57829-6

Refrigeration & Air Conditioning Technology - Eighth Edition, Lab Manual ISBN-13 #: 978-1-305-57870-8

Online Resources:

**Emerald Coast Technical College
Program Syllabus**

Refrigeration & Air Conditioning Technology Eighth Edition, Power-Point CD.
ISBN-13 #: 978-1-305-58327-6

Tools/Supplies/Materials:

N/A

Grading Scale:

A = 94 to 100

B = 84 to 93

C = 74 to 83

73 or lower is failing

Evaluation/Assessment:

Students are evaluated on their critical thinking skills, technical troubleshooting, general HVAC knowledge retention, utilization of HVAC service tools and the ability to perform basic air conditioning repairs

Satisfactory Progress:

Please refer to the Catalog for general information regarding Satisfactory Academic Progress. Students in Air-conditioning, Refrigeration, and Heating Technology 2 should have successfully completed Air-conditioning, Refrigeration, and Heating Technology 1 or have been assessed by the instructor as having the equivalent experience.

Instructional Delivery Methods:

Lecture, Power Point, video and handouts, textbook, actual field experience reported by the instructor and class field trips, lab book and hands-on labs where multiple Brand name systems are installed and serviced

Classroom:

761 N. 20th Street DeFuniak Springs, Florida 32433
Portable Class Room # 1

Office Location:

761 N. 20th Street DeFuniak Springs, Florida 32433

Office Hours:

Regular office hours for the instructor are 12:00 PM to 9:30 PM Monday through Thursday, or as scheduled by appointment.

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Meeting Times/Contact Hours: Monday through Thursday 12:00 pm to 9:30 pm
Monday through Thursday 4:00 pm to 9:30 pm

Equipment:

All equipment is provided for the students other than textbooks

Safety:

- Safety is priority one.
- Report any unsafe conditions to the instructor immediately.
- If you are not comfortable or confident with any lab or project, stop and notify instructor.

Emergency Procedures:

- Emergency exits are clearly marked.
- As part of regular classroom instruction, students will be asked to participate in regular safety and emergency drills.
- Fire extinguishers are located in each area.

Rules and Regulation / Policies and Procedures:

Students will follow all rules/regulations outlined in the Program Handbook and the ECTC Catalog.

- Forms
N/A