

**Emerald Coast Technical College
Program Syllabus**

Heating, Ventilation, Air-Conditioning/Refrigeration (HVAC/R)1
Program Number C400410 PROGRAM HOURS: 750

Instructor(s): Jeff Falivene
HVAC Industry for 30 years
State Certified Mechanical License
EPA 608 Universal Certification
NCCER Certified Instructor
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Mission Statement: We prepare and empower today’s students to meet the demands of an evolving and competitive workforce.

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.

In addition, the program will provide the student with opportunities for individual growth and personal awareness, which can hopefully lead to an expansion in the student’s interests, confidence, personal success, work ethics and skills.

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.

Program Name:	Number:	Program Hours:
Course Name	Course Number	Clock Hours
Introduction to HVAC/R	ACR0000	250
HVAC/R Fundamentals	ACR0001	250
HVAC/R Service Practices	ACR0012	250
Total Clock Hours in Program		750

Prerequisites:

None

Industry Certification: For AC 1 Students

EPA 608 Universal Refrigerant Handlers Card
HVACE001 – HVAC Excellence Employment Ready - Heat Pump

**Emerald Coast Technical College
Program Syllabus**

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



NCCER

Occupational Completion Points:

OCP	Course Number	Course Title	Course Length	SOC Code
A	ACR0000	Introduction to HVAC/R	250	49-9021
B	ACR0001	HVAC/R Fundamentals	250	49-9021
C	ACR0012	HAC/R Service Practices	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:

NCCER Level - 1 - ISBN: 978-0-13-518509-4
NCCER Level - 2 - ISBN : 978-0-13-518512-4

Online Resources:

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

Tools/Supplies/Materials:

These are provided.

Grading Scale:

A = 93 to 100
B = 84 to 92

Emerald Coast Technical College Program Syllabus

C= 70 to 83
F= 69 & BELOW

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.

Conferences and Assistance:

Please contact the instructor first. Counselors located in student services are also available.

Classroom Location:

761 N. 20th Street DeFuniak Springs, Florida 32433
Classroom HVAC, Building# 500/ Room#503

Office Location:

761 N. 20th Street DeFuniak Springs, Florida 32433

Office Hours:

Regular office hours for the instructor are 11:30 PM to 9:00 PM Monday through Thursday, or as scheduled by appointment.

Attendance:

Attendance is mandatory. Students who believe that attendance may present a problem should discuss their situation with the instructor and with student services. Meet with instructor to schedule makeup hours.

Meeting Times/Contact Hours: Monday through Thursday 11:30 pm to 9:00 pm

Monday through Thursday 4:00 pm to 9:00 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.
- Follow CDC Guideline as they progress.

Emergency Procedures:

- Emergency exits are clearly marked.

**Emerald Coast Technical College
Program Syllabus**

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

Rules and Regulation / Policies and Procedures:

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