

Emerald Coast Technical College
Program Syllabus

Heating, Ventilation, Air conditioning/ Refrigeration (HVAC/R) 2

Program Name: Heating, Ventilation, Air-Conditioning/Refrigeration (HVAC/R 2)
Number: C400420 **Program Hours:** 600

Instructor(s): James Love
HVAC Industry for over 30 years
Certified
State Certified Mechanical Contractors license
A.A. Degree
HVAC Industry for 30 years
Certified
EPA 608 Universal Certification

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

Program Description:

This program will consist of brief review of principles of refrigeration and operating controls.

This will then move into service techniques and application of technology. The course will then continue with how these tools and conditions are applied to create and maintain different temperatures and conditions in commercial and industrial refrigeration including production of ice. This includes service, diagnosis, and repair of those systems

Prerequisites:

None

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 HVAC/R 2 students only
North American Technician Excellence (NATE)
NATEX001 - Air Conditioning Service Technician
NATEX002 - Air Conditioning Installation Specialist
NATEX003 - Air to Air Heat Pump
NATEX004 - Air to Air Heat Pump Service Technician

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ACCA certifying agency

This test is not required but it is encouraged to show commanding knowledge of the HVAC service and repairs that is recognized throughout the industry

The above tests are not required but encouraged.

Occupational Completion Points:

OCP	Course Number	Course Title	Course Length	SOC Code
A	ACR0013	HVAC/R intermediate service practices	250	49-9021
B	ACR0044	HVAC/R Advanced commercial and industrial practices	350	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 as well as refrigeration and commercial systems
2. Class Lecture, Videos, Handouts
3. Customer service and human relations.
4. Employability skills.
5. Safe, efficient work practices.

Textbook:

Text:

NCEER level 3 V5 ISBN 9780135185 10-0

NCEER level4 V5 ISBN 9780135185 06-3

Online Resources:

NCEER Downloads

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Tools/Supplies/Materials: These are provided.

Grading Scale:

A = 93 to 100

B = 84 to 92

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 Heating, Ventilation, Air-Conditioning/Refrigeration (HVAC/R 2 should have successfully completed Heating, Ventilation, Air-Conditioning/Refrigeration (HVAC/R 1 or have been assessed by the instructor as having the equivalent experience.

Instructional Delivery Methods:

Lecture, 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.

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

Monday through Thursday 4:00 pm to 9:30 pm

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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.
- Following C.D.C. Guidelines as they progress

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 ECTC Catalog.

- Forms
- N/A