



Air Conditioning and Refrigeration 2
TI201

Hours: In Class 250 Clinical Total 250

Description

Create a path to a license as you learn about commercial refrigeration, electric heating and air conditioning simulated in-the-field situations. You will cover operations and troubleshooting using diagnostic instruments to understand preventive maintenance, service and repair of commercial refrigeration, electric heating, and air conditioning.

Students will also take the ICE exam, an industry recognized certification. Students will use textbooks they obtained in HVAC 1. Successful completion of HVAC 1 and HVAC 2 will count as one year toward your apprenticeship!

Prerequisites

Must have completed TI 101

Required Supplies/Materials

Instructor will specify student-provided tool list.

Learning Objectives

- observe all safety rules
- describe how electric current flows
- describe how magnetism is used to produce electricity
- Describe the difference between alternating and direct current
- Explain Ohm's Law
- Identify system components
- Demonstrate safe and proper procedures for making electrical measurements
- Demonstrate troubleshooting techniques for system controls, electric motors, commercial refrigeration systems, and forced-air furnaces.
- Explain refrigeration as applied to air conditioning
- Plot conditions using a psychometric chart

Teaching Philosophy

We believe that instructors, staff, and administrators have a shared responsibility to provide: 1) innovative course design and instruction; 2) a safe, learner-centered environment; and 3) an authentic learning experience.

Teaching Methods

Methods include lecture, class discussion, and demonstrations.

Evaluation Methods

A certificate of completion requires successful completion of all assigned work within the established time frame. and adherence to the attendance policy. Types of graded assignments may include projects, review questions, quizzes and exams.

Grading Policy

- A = 90-100
- B = 80-89
- C = 70-79
- D = 60-69
- F = below 60

Student Responsibilities



MOORE NORMAN
TECHNOLOGY CENTER

Course Syllabus

To ensure a quality and safe learning environment, students are required to follow the Post-Secondary Student Behavior policy #560. This policy can be found at www.mntc.edu/board-policies. Printed copies are available upon request. Students who miss 5 classes will be placed on probation at the discretion of the coordinator. Students who miss 8 classes will be withdrawn from the program and no refunds will be issued.