

## **HVAC2-116: Refrigeration 2**

### Course Description:

Studies and calculations are made of commercial and industrial refrigeration systems, along with the design and selection of equipment. Meters and service tools are used to diagnose and troubleshoot compressors, coolers, ice makers, and freezers.

Total Credits: 4.00

### Course Competencies

- 1. Plot thermodynamics properties of refrigerants using pressure enthalpy tables**
- 2. Service package air conditioning equipment and psychrometrics**
- 3. Perform electrical and mechanical troubleshooting methods**
- 4. Service refrigeration accessories: receiver, accumulators, EPR, CPR, SPR, solenoid valves, muffler, head pressure control valves, heat exchanger, sight glass, driers, oil separators**

Requirements for CPLE to be issued:

#### **Professional Experience Requirement:**

- A minimum of five (5) years of verifiable experience field experience with an HVAC/R contractor or within a facility performing HVAC/R maintenance in-house.
- EPA 608 Universal Technician Certification

#### **Verification of Experience:**

- Candidates are required to provide documented evidence of their work experience, on company letterhead, including but not limited to:
  - Employment records or letters of recommendation from previous employers.
  - Certificates of completion for relevant training programs or workshops.
  - Any other verifiable documentation substantiating the candidate's experience in commercial refrigeration and air conditioning equipment maintenance/service.