

Course Outline for REFR1102 — Refrigeration Principles

Credits: 3 (3/0/0)

Description: This course covers the theory and operation and service procedures of the basic refrigeration system including the main components of the system: compressor, condenser, evaporator, metering device and domestic refrigeration. Student will develop troubleshooting techniques using computer and Omnidata refrigerator simulators.

Prerequisites: (None)

Corequisites: (None)

Competencies:

1. Demonstrate the use and advantages of technical manuals.
2. Apply refrigeration safety.
3. Identify refrigeration tubing process.
4. Explain hand tool and meter use.
5. Explain refrigeration tool use.
6. Explain tube soldering and brazing methods.
7. Describe refrigerant recovery and evacuation methods.
8. Describe refrigeration system components.
9. Describe refrigeration systems operations.
10. Interpret gas pressures and temperature and system efficiency.
11. Describe domestic refrigeration electrical systems.

Goal Areas: (None)