REFRIGERATION PRINCIPLES AND APPLICATIONS — HVAC 1120

A. Course Description
   - Credits: 4.00
   - Lecture Hours/Week: 2.00
   - Lab Hours/Week: 2.00
   - OJT Hours/Week: 0
   - Prerequisites: None
   - Corequisites: None
   - MnTC Goals: None

This course covers the theory and the basics of residential and commercial compression refrigeration systems. A refrigeration trainer will be built by each student to supplement the theory delivered in the classroom.

B. Course Effective Dates: 8/24/15 – Present

C. Outline of Major Content Areas
   As noted on course syllabus

D. Learning Outcomes

1. Demonstrate proper HVAC/R technician behavior and participate in the ride along days, as well as recognizing, defining and practicing safe work habits.
2. Design and assemble and operate a fully automatic compression refrigeration system. Identify and describe the function of the individual components that make up the entire refrigeration system.
3. Gather, Interpret, and analyze system pressures, temperatures and electrical data to determine proper operation of a refrigeration system.
4. Recover refrigerant in accordance with EPA guidelines.
5. Define industry related terms

E. Minnesota Transfer Curriculum Goal Area(s) and Competencies

F. Learner Outcomes Assessment
   As noted on course syllabus

G. Special Information
None noted