COMMERCIAL REFRIGERATION — HVAC 1250

A. Course Description

- **Credits:** 3.00
- **Lecture Hours/Week:** 2.00
- **Lab Hours/Week:** 1.00
- **OJT Hours/Week:** 0
- **Prerequisites:** None
- **Corequisites:** None
- **MnTC Goals:** None

The students will learn about various types of commercial refrigeration equipment, the necessary controls, and proper operation. Equipment will include reach in coolers and freezers as well as ice machines. Also covered will be proper maintenance procedure as well as troubleshooting and schematic diagrams.

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. Analyze, observe and test miscellaneous self-contained commercial refrigeration equipment.
3. Perform preventative maintenance and troubleshooting on miscellaneous commercial refrigeration equipment.
4. Describe the function of components, controls and values used on commercial refrigeration equipment.
5. Explain the function of components and systems that are unique to large parallel compressor systems.
6. Describe, analyze, and perform the pump down process on a refrigeration system.

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

F. Learner Outcomes Assessment

- As noted on course syllabus

G. Special Information
None noted