VENTILATING SYSTEMS AND HVAC INSTALLATION — HVAC 1230

A. Course Description
   - Credits: 4.00
   - Lecture Hours/Week: 3.00
   - Lab Hours/Week: 1.00
   - OJT Hours/Week: 0
   - Prerequisites: None
   - Corequisites: None
   - MnTC Goals: None

Ventilation systems are an important consideration for an HVAC technician. This course familiarizes the student with sheet metal fabrication and layout procedures. Construction blueprint reading and duct sizing is covered. Individual instruction packets cover electronic air cleaners, air handler service procedure, multizone systems and the basic operation of economizers and make-up air units.

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. Calculate heating and cooling loads to determine proper equipment selection and duct sizing.
   3. Layout and fabricate commonly used duct fittings using proper hand tools and sheet metal working equipment.
   4. Explain economizers, air exchanger and exhaust fans in terms of installation, operation and maintenance.
   5. Discuss and analyze a residential zone system and its operation.

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

F. Learner Outcomes Assessment
   As noted on course syllabus
G. Special Information

None noted