Alexandria Technical and Community College

DIES 1642: HVAC Systems

A. COURSE DESCRIPTION
   Credits: 3
   Lecture Hours/Week: 2
   Lab Hours/Week: 2
   OJT Hours/Week: *
   Prerequisites:
   This course requires the following prerequisite
   DIES 1633 - Diesel Electronic Systems (Number of Years Valid: 5)
   Corequisites: None
   MnTC Goals: None
   Students learn basic heating, ventilation, and air conditioning system theory (HVAC) and develop skills necessary to operate, test, service, and repair HVAC systems.

B. COURSE EFFECTIVE DATES: 08/25/2014 - Present

C. OUTLINE OF MAJOR CONTENT AREAS
   1. Demonstrate the ability to service HVAC systems.
   2. Demonstrate the ability to troubleshoot HVAC systems.
   3. Demonstrate the ability to explain theory and operation of HVAC systems.
   4. Demonstrate the ability to repair HVAC systems.
   5. Apply environmental and safety practices.
   6. Develop an understanding of the thermodynamics of refrigeration.

D. LEARNING OUTCOMES (General)
   1. The learner will demonstrate, explain, and understand equipment used in servicing HVAC systems.
   2. The learner will explain, demonstrate, and understand components used in HVAC systems.
   3. The learner will gain a theoretical understanding of air conditioning systems.

E. Minnesota Transfer Curriculum Goal Area(s) and Competencies
   None

F. LEARNER OUTCOMES ASSESSMENT
   As noted on course syllabus

G. SPECIAL INFORMATION
   None noted