Alexandria Technical and Community College

DIES 1641: Diesel Fuel 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 1635 - Hydraulic Fundamentals (Number of Years Valid: 5)

Corequisites: None

MnTC Goals: None

This course is an introduction to diesel engine fuel systems. The student studies various types of diesel fuel system components and designs. The student tests, adjusts, and repairs diesel fuel injection components in lab activities.

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

C. OUTLINE OF MAJOR CONTENT AREAS

1. Display knowledge of fuel system components and operation.
2. Demonstrate ability to keep work area safe.
3. Demonstrate ability to use special tooling.
4. Perform overhead adjustments on various engines.
5. Demonstrate ability to adjust diesel fuel system timing.
6. Perform test procedures on diesel fuel components.

D. LEARNING OUTCOMES (General)

1. The learner will demonstrate knowledge of diesel fuel and compression ignition systems/components.
2. The learner will demonstrate knowledge of diesel ignition pump systems.
3. The learner will demonstrate knowledge of diesel unit injector 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