Alexandria Technical and Community College

DIES 1631: Hydraulic Fundamentals

A. COURSE DESCRIPTION
   Credits: 3
   Lecture Hours/Week: 2
   Lab Hours/Week: 1
   OJT Hours/Week: *.*
   Prerequisites: None
   Corequisites: None
   MnTC Goals: None
   This course covers the basic design and theory of fluid hydraulics. Students learn to understand function, operation, maintenance, diagnosis, and repair procedures on hydraulic components. This course is an introduction to fluid hydraulics and is a prerequisite to advanced power train and fuel systems courses.

B. COURSE EFFECTIVE DATES: 01/13/2014 - Present

C. OUTLINE OF MAJOR CONTENT AREAS
   1. Understand hydraulic theory.
   2. Identify hydraulic components.
   3. Demonstrate hydraulic component knowledge.
   4. Interpret hydraulic schematics.
   5. Identify hydraulic fittings
   6. Display knowledge of safe work area.

D. LEARNING OUTCOMES (General)
   1. exhibit knowledge of hydraulic system theory.
   2. disassemble, inspect, and reassemble hydraulic components.
   3. identify hydraulic system sub-components.
   4. recognize proper hydraulic system maintenance practices.

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

F. LEARNER OUTCOMES ASSESSMENT
   As noted on course syllabus

G. SPECIAL INFORMATION
   None noted