

Course Outcome Guide (COG)

Approved April 13, 2015

Course: DTEC 127	Title: Hydraulics	Credits: 4	Instructor:		
Course Description:	This course covers the principles of hydraulics for component identification and function				
Concepts and Issues	Process Skills	Assessment Tasks	Intended Outcomes		
			Course	General Education or Program	Institutional
<ul style="list-style-type: none"> For the student to develop a basic understanding of hydraulic systems components and their function Develop skills for proper procedures in disassembly and reassembly of hydraulic components Develop skills for troubleshooting pressure and flow in hydraulic systems Develop knowledge of hydraulic pump and motor function 	<ul style="list-style-type: none"> Identify and describe the function of hydraulic components Demonstrate proper procedure in testing hydraulic components Demonstrate knowledge of hydraulic systems function Perform pressure and flow testing procedures 	<ul style="list-style-type: none"> Weekly testing Shop performance Demonstration of course specific skills 	<ol style="list-style-type: none"> Demonstrate hydraulic pump and motor operation Demonstrate the ability to identify hydraulic components and explain their function Perform skills on disassembly and reassembly of hydraulic components Demonstrate knowledge of hydraulic system operation and troubleshooting 	<ol style="list-style-type: none"> Make troubleshooting decisions and complete repairs using the proper tools and equipment based on concepts and processes learned in the Transportation program. Be prepared to take NATEF Certification tests. Apply the knowledge acquired for future employment. Apply the knowledge of safety procedures and handling of hazardous material processes to their training and future employment. 	<ol style="list-style-type: none"> Students will demonstrate effective communication skills. Students will use reasoning skills to analyze and solve problems.

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