

Course Outcome Guide (COG)

Approved April 13, 2015

Course: DTEC 106	Title: Intro to Engines	Credits: 4	Instructor:		
Course Description:	This course covers engine component identification and function, principles of internal combustion engines and the basic of electronic controls systems found on modern engines.				
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 engine components and their function Develop skills for proper procedures for use of shop tools and equipment Develop skills for performing engine disassembly Develop knowledge of basic electronic control systems used in modern engines 	<ul style="list-style-type: none"> Identify and describe the function of engine components Demonstrate proper procedure in the use of shop tools and equipment Demonstrate knowledge of basic electronic control systems used in modern engines Perform disassembly of engines and their internal components 	<ul style="list-style-type: none"> Weekly testing Shop performance Demonstration of course specific skills 	<ol style="list-style-type: none"> Demonstrate safety procedures used within the industry to include MSDS Demonstrate the ability to identify engine components and their function Perform mechanical skills on engine component disassembly Demonstrate knowledge of basic electronic control systems used in modern engines 	<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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