

Course Outcome Guide (COG)

Approved April 13, 2015

Course: DTEC 217	Title: Heating & Air Conditioning	Credits:	4	Instructor:	
Course Description:	This course covers component identification, function and testing procedures on heating and air conditioning systems found on modern vehicles.				
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 heating and cooling systems and their function Develop skills for proper procedures for use of shop tools and equipment Develop skills for performing charging of a/c systems Develop knowledge of refrigerants 	<ul style="list-style-type: none"> Identify and describe the function of heating / a/c components Demonstrate proper procedure in the use of shop tools and equipment Demonstrate knowledge of properly charging a/c systems Perform troubleshooting on heating and a/c 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 for handling refrigerants Demonstrate the ability to identify components and their function in heating and a/c systems Perform troubleshooting procedures on heating and a/c systems and their components Demonstrate knowledge of properly charging a/c systems 	<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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