

AUT 213 Automotive Servicing 2

COURSE DESCRIPTION:

Prerequisites: None

Corequisites: None

Course description. This course is a lab used as an alternative to co-op placement. Emphasis is placed on shop operations, troubleshooting, testing, adjusting, repairing, and replacing components using appropriate test equipment and service information. Upon completion, students should be able to perform a variety of automotive repairs using proper service procedures and to operate appropriate equipment.

Course Hours per Week: Class, 3. Semester Hours Credit, 3.

LEARNING OUTCOMES:

Upon completing requirements for this course, the student will be able to:

1. Demonstrate work place safety and hazardous waste disposal per OSHA and EPA guidelines that apply to relevant transportation industry work.
2. Given a vehicle or piece of equipment, students will be able to identify it and locate relevant service information in one or more industry-standard databases.
3. Demonstrate proficiency hoisting transportation vehicles through use of lifts and floor jacks.
4. Complete service repair orders with appropriate information: customer contact information; VIN; cause, concern, correction.
5. Distinguish between different transportation systems terms and components either on a written exercise or in a lab environment.
6. Demonstrate proper use and care of related transportation industry tools and equipment.
7. Correctly identify or describe government regulations associated with the transportation industry.

OUTLINE OF INSTRUCTION:

- I. Class Orientation
 - A. Introduction and welcome
 - B. Student Packets
 - C. Class/lab routine
 - D. Shop Safety
- II. Environmental, Safety and Industry Regulations
 - A. Hazardous Waste Handling
 - a. Material Safety Data Sheets
 - b. Proper Storage
 - c. Proper disposal
 - d. Hazardous waste spill procedures
 - B. Safety Regulations
 - a. Occupational Safety and Health Administration
 - b. American National Specifications Institute
 - c. Environmental Protection Agency
 - d. Local Enforcement

- C. Industry Regulations
 - a. National highway Transportation Safety Administration
 - b. Society of Automotive Engineers
 - c. International Standards Organization
 - d. American Petroleum Institute
 - e. Environmental Protection Agency
- III. Automotive Shop Operations
 - A. Dealership
 - a. Pay Plans
 - b. Benefits
 - c. Functional Layout
 - d. Procedures
 - e. Training
 - B. Independent Repair Facilities
 - a. Pay Plans
 - b. Benefits
 - c. Functional Layout
 - d. Procedures
 - e. Training
- IV. Work-based activities
 - A. Provide customer service opportunities under the direct supervision of the program instructor.
 - a. Develop and apply 'real world' experience.
 - b. Demonstrate effective diagnosis, service, and repair skills when working on vehicle systems
 - c. Compose documentation of service and repair work performed on customers' vehicles, in compliance with automotive industry standards.
 - d. Demonstrate sound theoretical knowledge of automotive systems when working in a commercial automotive repair setting.
 - e. Recognize the importance of researching service and repair procedures while working in a commercial automotive repair setting.
 - f. Demonstrate effective communication skills both written and oral.

REQUIRED TEXTBOOK AND MATERIAL:

The textbook and other instructional material will be determined by the instructor.