



MONROE COUNTY COMMUNITY COLLEGE

Course Outcome Summary

Required Program Core Course AST 249 Cooperative Work Experience

Course information

Division	ASET
Contact hours	0
Clinical Hours	90
Total credits	3

Prerequisites – Department Coordinator or Division Dean Approval

Course Description:

This course focuses on introducing the student to real world on the job learning experiences, whether paid or volunteer. The student will spend a minimum of 90 hours working off site at an actual repair facility. This course is intended to supplement the hours in courses on campus for the purpose of demonstrating competency and refining employability skills.

This course is a required core course for students pursuing a(n) AAS or certificate in automotive technologies

Program outcomes addressed by this course:

Upon successful completion of this course, students should be able to meet the program outcomes listed below:

- A. Demonstrate the correct method of utilizing automotive service tools and equipment
- C. Employ safe and professional work habits while conducting typical automotive service procedures
- E. Demonstrate correct service procedures in the various automotive systems

Course outcomes

In order to evidence success in this course, the students will be able to:

1. Understand and demonstrate shop and personal safety policies and procedures

This outcome is relevant to program outcome: (A) and (C)

- a) Identify general shop safety rules and procedures.
- b) Utilize safe procedures for handling of tools and equipment.
- c) Identify and use proper placement of floor jacks and jack stands.
- d) Identify and use proper procedures for safe lift operation.
- e) Utilize proper ventilation procedures for working within the lab/shop area.
- f) Identify marked safety areas.
- g) Identify the location and the types of fire extinguishers and other fire safety equipment; demonstrate knowledge of the procedures for using fire extinguishers and other fire safety equipment.
- h) Identify the location and use of eye wash stations.
- i) Identify the location of the posted evacuation routes.
- j) Comply with the required use of safety glasses, ear protection, gloves, and shoes during lab/shop activities.



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- k) Identify and wear appropriate clothing for lab/shop activities.
- l) Secure hair and jewelry for lab/shop activities.
- m) Demonstrate awareness of the safety aspects of supplemental restraint systems (srs), electronic brake control systems, and hybrid vehicle high voltage circuits.
- n) Demonstrate awareness of the safety aspects of high voltage circuits (such as high intensity discharge (hid) lamps, ignition systems, injection systems, etc.).
- o) Locate and demonstrate knowledge of material safety data sheets (MSDS).

2. Proper and effective usage of tools and equipment

This outcome is relevant to program outcomes: (A) , (C) and (E)

- a) Identify tools and their usage in automotive applications.
- b) Identify standard and metric designation.
- c) Demonstrate safe handling and use of appropriate tools.
- d) Demonstrate proper cleaning, storage, and maintenance of tools and equipment.
- e) Demonstrate proper use of precision measuring tools (i.e. Micrometer, dial-indicator, dial-caliper).

3. Preparing vehicle for service, and performing inspection and service as requested by customer.

This outcome is relevant to program outcomes: (A),(C), and (E)

- a) Identify information needed and the service requested on a repair order.
- b) Identify purpose and demonstrate proper use of fender covers, mats.
- c) Demonstrate use of the three c's (concern, cause, and correction).
- d) Review vehicle service history.
- e) Complete work order to include customer information, vehicle identifying information, customer concern, related service history, cause, and correction.

4. Preparing vehicle for return to customer after service is complete.

This outcome is relevant to program outcome: (C)

- a) Ensure vehicle is prepared to return to customer per company policy (floor mats, steering wheel cover, etc.).

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