



BAKER COLLEGE
STUDENT LEARNING OUTCOMES

ABT 2010A/AST 2010A General Maintenance and Safety
1 Semester Hours

Student Learning Outcomes & Enabling Objectives

1. Understand Shop and Personal Safety
 - 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.
 - k. Identify and wear appropriate clothing for lab/shop activities.
 - l. Secure hair and jewelry for lab/shop activities.
 - m. Locate and demonstrate knowledge of material safety data sheets (MSDS).

2. Understand Tools and Equipment
 - 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.

3. Understand Fasteners
 - a. Identify threaded fasteners and their use
 - b. Identify standard and metric fasteners

- c. Identify bolt grades and how they are sized
 - d. Identify pitch
 - e. Identify nuts and their applications
 - f. Identify washers and their applications
 - g. Identify the purpose and application of thread locking compounds
4. Understanding Preparing Vehicle for Service
- 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 Cs (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.
5. Understanding Preparing a Vehicle for Customer
- a. Ensure vehicle is prepared to return to customer per school/company policy (floor mats, steering wheel cover, etc.)

These SLOs are not approved for experiential credit.

Effective: Fall 2017