

AUTO 296-4Credits

Student Learning Objectives/Job Description for Cooperative Education

As a cooperative education experience and employee the learning objectives are expected to include, but not be limited to the following:

1. Steering and Suspension tasks of at least 16 clock hours
Area tasks should include but not be limited to:
 - a. Tie Rod inspection and replacement
 - b. Ball Joint inspection and replacement
 - c. Strut inspection and replacement
 - d. Leaf spring inspection
 - e. Power steering system inspection
 - f. Suspension alignment inspection and adjustment

2. Heating, Cooling and Air Conditioning tasks of at least 10 hours
Area tasks should include but not be limited to:
 - a. Thermostat replacement
 - b. Heater hose replacement
 - c. Coolant system flush
 - d. Heater core inspection
 - e. Air Conditioning system inspection and service

3. Brake System tasks of at least 12 clock hours
Area tasks should include but not be limited to:
 - a. Disc brake pad inspection and replacement
 - b. Disc brake system rotor inspection and service
 - c. Drum brake system shoe inspection and replacement
 - d. Drum brake system drum inspection and service
 - e. Hydraulic brake system fluid flush and bleed
 - f. Brake lathe operation
 - g. Parking brake adjustment

4. Engine mechanical tasks of at least 10 clock hours
Area tasks should include but not be limited to:
 - a. Timing belt inspection and replacement
 - b. Cylinder head gasket inspection and replacement
 - c. Engine noise diagnosis
 - d. Motor mount inspection

5. Engine electrical tasks of at least 8 clock hours
Area tasks should include but not be limited to:
 - a. Starter motor inspection and replacement
 - b. Alternator inspection and replacement
 - c. Ignition system functional tests

- d. Perform minor engine tune-up
- e. Perform major engine tune-up
- f. Oxygen sensor inspection
- g. Fuel injector inspection

6. Automatic transmission tasks of at least 6 clock hours

Area tasks should include but not be limited to:

- a. Fluid flush and refill
- b. System filter inspection and replacement
- c. Fluid leak inspection
- d. Torque converter operation inspection

7. Manual transmission task of at least 6 hours

Area tasks should include but not be limited to:

- a. Fluid replacement
- b. Clutch operation inspection
- c. Hydraulic clutch fluid replacement
- d. Differential fluid replacement
- e. Constant Velocity shaft inspection and environmental seal replacement