# AUTO G002N: AUTOMOTIVE SAFETY

| Item | Value |
|---|---|
| Curriculum Committee Approval Date | 10/03/2023 |
| Top Code | 094800 - Automotive Technology |
| Units | 0 Total Units |
| Hours | 16 Total Hours (Lecture Hours 4; Lab Hours 12) |
| Total Outside of Class Hours | 0 |
| Course Credit Status | Noncredit (N) |
| Material Fee | No |
| Basic Skills | Not Basic Skills (N) |
| Repeatable | Yes; Repeat Limit 3 |
| Grading Policy | P/NP/SP Non-Credit (D) |

## Course Description

This noncredit course covers general safety guidelines for the Automotive Industry. Students will learn about Personal Protection Equipment (PPE), how to safely use and maintain automotive tools, vehicle hoists, and other equipment used in the industry. In addition, students will take the S/P2 (Safety and Pollution Prevention) safety test which outlines proper procedures for hazardous waste handling and disposal. Noncredit. Open Entry/Open Exit. NOT DEGREE APPLICABLE. Not Transferable.

## Course Level Student Learning Outcome(s)

1. Course Outcomes
2. Demonstrate safe lifting practices outlined by manufacturer service information.
3. Deomonstrate automotive safety practices by passing an industry recognized safety test (S/P2).
4. Demonstrate handling and storage of hazardous materials related to the automotive industry.

## Course Objectives

- 1. Demonstrate industry accepted handling procedures of hazardous materials.
- 2. Use an automotive lift to raise and lower a vehicle using manufacturers identified lift procedures.
- 3. Use a floor jack to raise and lower a vehicle.
- 4. Demonstrate Automotive Safety by passing an industry recognized safety test.

## Lecture Content

Mechanical Safety Hazardous Materials and Safety Data Sheets (SDS) Personal Protection Equipment (PPE) First aid kits Eye rash Fires Power tools Electrical Jump starting Hybrid vehicles Compressed Natural Gas (CNG) Lockout and tagout procedure Walking and work surfaces Avoiding injury in the Workplace Bloodborne pathogens Respirators/air quality Operating vehicles Lifts Welding Mechanical Pollution Prevention Solvents Wastewater Floor Drains Oil and similar fluids Absorbents and spills Antifreeze Batteries Refrigerant Tires Other sources Asbestos

## Lab Content

Understanding the Automotive Shop Environment Identify shop safety Equipment Identify shop hazards Hazardous Waste Interpret (SDS) information Proper storing and disposal of hazardous waste Automotive Lifting Procedures Selecting the right automotive lift Locate vehicle lift points Accurately raise and lower a vehicle using an automotive lift Accurately raise and lower a vehicle using a floor jack

## Method(s) of Instruction

- Enhanced NC Lect (NC1)
- Enhanced NC Lab (NC2)

## Reading Assignments

Web based Instructor assigned reading

## Writing Assignments

Create vehicle repair orders, perform math exercises for flat rate labor, parts, and materials totals.

## Out-of-class Assignments

Web based training Reading assignments

## Demonstration of Critical Thinking

Students will evaluate an automotive shop environment to determine safety violations and formulate a plan to address the discovered issues.

## Required Writing, Problem Solving, Skills Demonstration

On examination, students will use published service information to accurately lift a vehicle for service in an automotive shop. Students will demonstrate proper handling and storage for hazardous waste that is generated in an automotive shop environment.

## Eligible Disciplines

Automotive technology: Any bachelors degree and two years of professional experience, or any associate degree and six years of professional experience.