

Unit 1 Safety 2019

Content Area: **Applied Technology**
Course(s):
Time Period: **Marking Period 1**
Length: **2 weeks**
Status: **Published**

Summary/ Introduction

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Students will learn basic safety protocol for the automotive shop including but not limited to the location of safety equipment, such as the emergency shut offs, fire extinguishers, fire blankets, eye wash station, and first aid kit. They will learn the safe use of automobile lifts, jacks, jack stands, goggles, and other shop related equipment.

Introduction:

The goal of this unit is to teach basic safety rules and procedures that are essential for a positive experience in the automotive shop. By making students aware of the dangers and accidents that can occur, students will be better equipped to avoid and foresee possible accidents. Students will be made aware of the dangers while working in the shop, and how to recognize and avoid mishaps. The possible dangers are fires, physical injuries, chemical burns, electrocution, etc..

Revision Date: July 2019

Standards

| | |
|-------------------|---|
| HE.2.3.12 | Safety |
| HE.9-12.2.3.12.PS | Personal Safety |
| LA.RST.9-10.3 | Follow precisely a complex multistep procedure when carrying out experiments, taking measurements, or performing technical tasks, attending to special cases or exceptions defined in the text. |
| LA.RST.9-10.4 | Determine the meaning of symbols, key terms, and other domain-specific words and phrases as they are used in a specific scientific or technical context relevant to grades 9-10 texts and topics. |
| CRP.K-12.CRP2 | Apply appropriate academic and technical skills. |
| CRP.K-12.CRP2.1 | Career-ready individuals readily access and use the knowledge and skills acquired through experience and education to be more productive. They make connections between abstract concepts with real-world applications, and they make correct insights about when it is appropriate to apply the use of an academic skill in a workplace situation. |
| CRP.K-12.CRP5 | Consider the environmental, social and economic impacts of decisions. |
| CRP.K-12.CRP5.1 | Career-ready individuals understand the interrelated nature of their actions and regularly |

make decisions that positively impact and/or mitigate negative impact on other people, organization, and the environment. They are aware of and utilize new technologies, understandings, procedures, materials, and regulations affecting the nature of their work as it relates to the impact on the social condition, the environment and the profitability of the organization.

CRP.K-12.CRP8

Utilize critical thinking to make sense of problems and persevere in solving them.

CRP.K-12.CRP8.1

Career-ready individuals readily recognize problems in the workplace, understand the nature of the problem, and devise effective plans to solve the problem. They are aware of problems when they occur and take action quickly to address the problem; they thoughtfully investigate the root cause of the problem prior to introducing solutions. They carefully consider the options to solve the problem. Once a solution is agreed upon, they follow through to ensure the problem is solved, whether through their own actions or the actions of others.

WRK.9.2.12.CAP

Career Awareness and Planning

WRK.K-12.P.1

Act as a responsible and contributing community members and employee.

WRK.K-12.P.5

Utilize critical thinking to make sense of problems and persevere in solving them.

WRK.K-12.P.9

Work productively in teams while using cultural/global competence.

Objectives

Students will know.....

the safety procedures and danger areas of the shop

practice shop safety procedures

the location of all safety related equipment

the proper disposal of hazardous materials

that safety is the number one priority in the shop

Students will be skilled at.....

use of personal safety attire will prevent personal injury

the proper use of automotive equipment is essential to preventing accidents

the proper disposal of waste produced in the automotive shop to minimize contamination of the environment.

performing a hands on demonstration of the location and use of safety equipment

demonstrating safe work habits.

Learning Plan

Preview the essential questions and connect to learning throughout the unit

Instructor led discussion on the importance of safe work habits and why good safety habits should be

developed early. Discussion will also focus on what safe work habits are and how to practice them.

Tour of shop, description of equipment and its proper use. Tour will include location of fire extinguishers emergency shut offs and their proper use.

Modern Automotive Technology text and work books chapter 5

Hands on Job Sheets on automotive shop procedures and proper use of equipment

Assessment

Formative: assessment of essential questions

Summative: quizzes and unit test on safety procedures and disposal of hazardous materials

Formative: participate in class discussions regarding safety rules and procedures

Formative: Job sheets

Benchmark: Final / MidtermExam

Alternative: Presentation pn disposal of hazardous materials

Modifications

<https://docs.google.com/spreadsheets/d/1AckQSTINShzIM-rDV5YKYUFm2WMCxJQiS10rEZ4jCC8/edit?usp=sharing>