

Basic Shop Safety

Media Type: DVD

Duration: 41 min.

Description:

Through the combination of live action and section assessments, this presentation emphasizes the importance of wearing personal protective equipment; safety precautions to follow to prevent fire, chemical and electrical hazards; and emergency guidelines, including first aid steps and procedures. This is a MUST for anyone working in a shop environment. Collaborator: Dr. David Lawver, Texas Tech University.

Horizontal Alignment

Core-Subject Area	Foundation Concept	Basic Understanding
Language Arts	<i>Application of Writing Skills</i>	<ul style="list-style-type: none"> Organizing logical thoughts
	<i>Analysis of Text and Information</i>	<ul style="list-style-type: none"> Developing listening and comprehension skills
	<i>Technology Applications in Literature</i>	<ul style="list-style-type: none"> Utilizing document processing software
Science	<i>Scientific Thinking and Investigating</i>	<ul style="list-style-type: none"> Field and laboratory investigations Critical thinking and scientific problem solving
	<i>Scientific Laws and Principles</i>	<ul style="list-style-type: none"> Physical and chemical reactions

Basic Shop Safety

Goal: To teach fundamental shop safety techniques in order to provide a safe working and learning environment

objectives



1. The student will learn about personal protective equipment used to protect eye sight, hearing and the body.
2. The student will learn to avoid common shop hazards, including mechanical, chemical, electrical and fire hazards.
3. The student will learn how to respond in the event of an emergency.

lesson links



1. Basic Shop Safety Vocabulary Handout
2. Basic Shop Safety Handout
3. Basic Shop Safety Worksheet and Answer Key
4. Basic Shop Safety Assessments and Answer Keys
5. Basic Shop Safety Word Search and Answer Key
6. Additional Instructional Strategies

lesson plans



Class 1: At the beginning of class ask students if any of them have had an accident at home or at school which involved a lack of shop safety. Distribute the Basic Shop Safety Vocabulary Handout along with the Basic Shop Safety Handout for references. Have students complete the Basic Shop Safety Worksheet during the presentation. Show Basic Shop Safety. Proceed through the first section involving statistics of hazardous accidents. Stop the presentation and handout the Basic Shop Safety Assessment I. Once students are finished go over the answers, as a class, using the Answer Key. Also emphasize to students that with proper safety precautions these accidents would not happen.

Class 2: Continue the presentation. The next section is about personal protective equipment. It covers eye, hearing and clothing protection. Afterward, take students to the shop and point out where all eye, hearing, and in some cases, clothing protection is located. Make it clear to students that safety equipment should be worn at all times while working in the shop. Have students complete the Basic Shop Safety Assessment II.

Class 3: Proceed with the presentation. The following section is Shop Hazards. Emphasize ways to avoid these hazards such as wearing safety equipment or keeping the shop clean. All hazards related to mechanical, chemical and electrical will be covered. Stop the presentation after this section to show students the proper clean up and where fire extinguishers, first aid kits and sinks are located. Afterward, administer the Basic Shop Safety Assessment III.

Class 4: Continue the presentation. This section will give an overview of how to prevent accidents in the shop and how to administer first aid. Go over the components of the first aid kit and when to use certain materials so everyone is prepared if the need arises. Upon completion administer the Basic Shop Safety Assessment IV. Allow students time to study for their Final Assessment.

Class 5: Have students complete the Basic Shop Safety Word Search as a review. Administer the Basic Shop Safety Final Assessment. Introduce the project and give students time to work on and complete it. Additional Instructional Strategies

internet sources

- www.nsc.org

project

Shop Safety

Directions:

Safety is detrimental in successfully understanding shop experiments. To help students become more familiar with safety in the shop, they will duplicate the floor plan of a shop.

Floor plans should be drawn using poster board and markers, and should include room or building dimensions and measurements. Students will most likely need to measure the shop.

Floor plans must show where the following safety materials are located.

- eye protection
- ear protection
- proper clothing
- fire extinguishers
- first aid kits
- exits and exhausts
- circuit breakers