

**Unit:** Safety

**Title:** Introduction to Safety

**Skill(s) and Knowledge:** Students will be able to:

- Explain the importance of safety.
- Distinguish between hazards, accidents, and injuries.
- Identify the kinds of mistakes that lead to accidents and injuries.
- Summarize the methods for preventing accidents.
- Support the training procedures required to promote safety.

**Tasks:** Demonstrate the proper use of PPE (Personal Protective Equipment) and describe how and why each item is used, such as: safety glasses, work boots, long pants, hard hats, gloves, ear protection, and high visibility vests. Identify the location of the first aid kit, eye wash station and procedures used if an injury should occur.

**Performance objective:** To demonstrate the importance of safety by describing the types of accidents that can occur and the methods of accident prevention, including identification of hazards, proper use of PPE and others like these.

**Tools, supplies and reference materials:**

Shop or Jobsite with staged hazards for students to identify. Career Connections Project Book 1 pages: 4-24.

**Methods of instruction:** Demonstration on how to identify hazards, lecture on safe work habits and attitudes. Field trip to a jobsite or the Union Training Hall to see the task performed by professional carpenters.

**Estimated time:** 2 hrs. **Number of students:** 10-15

**Task analysis or activities:** Students will act as inspectors and search the shop or jobsite for hazards and offer suggestions for correcting the infractions. Or act out a skit of a mock injury giving students different roles to play, reinforcing what actions need to be taken in the event of an injury.

**Evaluation:** Students will be graded on their use of time, safety methods, quality of work, cleaning and organization of their work area, interaction with other students, and vocational employability skills grading rubric. Manipulative skills assessments and written evaluations.

**Performance Notes:**

**Vocational Frameworks References**

1.A.02.03 Identify, describe and demonstrate personal, shop and job site safety practices and procedures.

1.A.02.04 Demonstrate safe dress and use of relevant safety gear, personal protective equipment (PPE) and ergonomics, e.g., wrist rests, adjustable workspaces, equipment, gloves, proper footwear, earplugs, eye protection and breathing apparatus.

1.A.02.05 Demonstrate appropriate safe body mechanics, including appropriate lifting techniques and ergonomics.

**English/Strand 3 Frameworks References:**

RST Grades 9-10 #4 Determine the meaning of symbols, key terms, and other domain-specific words and phrases in a technical context.

**Frameworks References: Math****Common Core References:**

Read and listen critically for information understanding and enjoyment

Set goals and achieve them by organizing time, workspace, and resources effectively

Work both independently and in groups

**SCANS references:****Foundation Skills:**

1. Basic skills— reading, writing, mathematics, speaking, and listening.
2. Thinking Skills-- thinking creatively, making decisions, solving problems, visualizing, knowing how to learn, and reasoning
3. Personal qualities--individual responsibility, self-esteem, sociability, self management, and integrity

**Work Place Competencies**

1. Resources--allocating time, money, material, space, and staff.
2. Interpersonal skills--working in teams, teaching others, serving customers, leading negotiating, and working well with culturally diverse populations.
3. Information--acquiring and evaluating data, organizing and maintaining files, interpreting & communicating, and using computer to process information
4. Systems--understanding social, organizational, and technological systems, monitoring and correcting performance, and designing or improving systems.
5. Technology--selecting equipment and tools, applying technology to specific tasks, and maintaining and troubleshooting technologies.

**Teach**

<b>Minutes</b>	<b>Activity</b>
Class Period 1	
5	<i>Chapter 1 Introduction</i> Review the lesson goal and objectives with students.
45	<i>Section 1</i> Discuss the importance of safety. Explain the meaning of “Safety First.” Review the list of safe work practices. Use both the classroom and shop area as needed.
Class Period 2	
5	<i>Review</i> Review chapter content previously taught.
45	<i>Section 2</i> Discuss and explain the relationship between hazards, accidents, and injuries. Discuss and expand upon the types of jobsite hazards listed. Explain how hazards cause accidents and injuries. Use both the classroom and shop area as needed.
Class Period 3	
5	<i>Review</i> Review chapter content previously taught.
45	<i>Section 3</i> Explain how to avoid mistakes that lead to accidents and injuries by discussing the list of specific hazards to watch for when walking into a shop. Discuss unsafe behaviors (inattention, carelessness, over-confidence) vs. the list of safe behaviors. Provide an overview of the proper use of tools and safety equipment. Demonstrate as needed. Discuss the need for safe work habits and attitudes, particularly when doing repetitive work. Review the list of personal qualities of professional carpenters. Explain what appropriate and protective clothing is for carpenters. Discuss the role of good communication to avoid and correct hazards. Use both the classroom and shop area as needed.
Class Period 4	
5	<i>Review</i> Review chapter content previously taught.
45	<i>Section 4</i> Introduce the topic of preventing accidents by reviewing the list of requirements. Discuss the importance of recognizing hazards. Review the list of questions that help identify a hazard. Explain how developing safe work habits begins by acquiring knowledge and

	<p>skill.</p> <p>Discuss the list of practices that keep the work area clean and safe.</p> <p>Describe the rules for proper handling of materials to avoid injuries.</p> <p>Describe the uses for personal protective equipment (PPE). Demonstrate proper use of this equipment.</p> <p>Use both the classroom and shop area as needed.</p>
Class Period 5	
5	<p><i>Review</i></p> <p>Review chapter content previously taught.</p>
30	<p><i>Section 5</i></p> <p>Summarize the importance of promoting safety, at school or at work. Explain the activities and precautions listed in a typical safety plan. Familiarize students with the school or shop safety plan.</p> <p>Describe the steps involved in case of an accident.</p> <p>Discuss the importance of knowing the location of the first aid station. Show students the location and contents of the school or shop first aid station.</p>
15	<p><i>Chapter Check</i></p> <p>Allow students to complete answers to the questions.</p> <p>Ask students to review Chapter 2 for the next class.</p>

**Assess**

<b>Assessment Activity</b>	<b>Assessment Method and Criteria</b>
Chapter Check questions	1 point for each correct answer