

Topic: Workshop Safety (I)

Sub-topics:

1. Causes of Workshop Accidents
 2. Types of Workshop Accidents
 3. Prevention of Workshop Accidents
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Lesson Objectives

By the end of the lesson, students should be able to:

- Identify common causes of accidents in the workshop.
 - List and explain different types of workshop accidents.
 - Outline various ways to prevent accidents in the workshop.
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Introduction

A **workshop** is a place where tools and machines are used to carry out practical work such as carpentry, metalwork, technical drawing, etc.

It is important that all students and teachers follow **safety rules** to avoid **accidents**, injuries, or damage to property.

1. Causes of Workshop Accidents

Workshop accidents usually happen because of **carelessness**, **lack of attention**, or **improper handling of tools and machines**.

▼ Common Causes Include:

- **Carelessness** or playing in the workshop
- **Improper use of tools or machines**
- **Wearing loose clothing** or accessories
- **Ignoring safety rules**
- **Poor lighting or ventilation**

- **Spillage of oil or water** on the floor
- **Overcrowding** in the workshop
- **Faulty or damaged tools**
- Lack of **protective equipment** like gloves, goggles, helmets

! *Note:* A simple mistake in the workshop can lead to **serious injuries**.

2. Types of Workshop Accidents

There are several types of accidents that can happen in a workshop. Each accident can lead to injury or damage if not properly handled.

Common Types:

Type of Accident	Description
Cuts and wounds	From sharp tools like saws, chisels, or broken glass
Burns	From hot surfaces, flames, or chemicals
Electric shock	From exposed wires or faulty electrical tools
Slips and falls	From oil spills or scattered tools on the floor
Eye injuries	From flying particles or sparks during grinding
Bruises and fractures	From falling heavy tools or equipment
Inhalation of fumes	From paints, chemicals, or poor ventilation

3. Prevention of Workshop Accidents

Safety Measures and Rules:

- Always **pay attention** and **stay focused** in the workshop.
- **Wear protective gear** (e.g., aprons, gloves, goggles, boots).
- **Keep tools in good condition** – report or fix damaged tools.
- **Keep the floor clean and dry** – wipe up any spills.

- **Avoid horseplay or rough behavior.**
 - **Store tools properly** after use.
 - Ensure **good lighting and ventilation.**
 - **Follow instructions** when using machines.
 - Only use machines you are **trained** to operate.
 - **Switch off power** when not in use.
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Importance of Workshop Safety

- Reduces the risk of **injury or death.**
- Keeps the workshop **organized and efficient.**
- Protects tools, machines, and materials from **damage.**
- Encourages **discipline and responsibility.**
- Builds **good working habits** among students.