Accident and safety
Introduction

Accident is an unexpected event which is typically sudden in nature and can cause injury, loss, harm or permanent disability.

Many accidents also involve damage or loss of property.

Accidents can occur anywhere, including in the home, during transportation, in the hospital, on the sports field, or in the workplace.

With appropriate safety precautions and awareness of one’s actions and environment, many accidents can be avoided or prevented.
PPE- Personal Protective Equipment

The protective clothing, helmets, goggles or any equipment designed to protect from an injury are known as PPE.

It provides physical protection from chemical and biohazards also resistance from heat and electricity.

They are not only worn for job-related occupational safety and health purposes, but also by sportsmen and women who wear pads, helmet, guards, shields, masks and others safety gears.

Swathi Kallesh
PPE at work environment

To reduce the employee exposure to hazards, PPE is necessary.

PPE is required when there is exposure to any hazards.

PPE must be used correctly to prevent any risk from injury.

PPE should not cause any kind of discomfort or stress to the employee.

It should be ergonomically designed to ensure safety and healthy working conditions.

Swathi Kallesh
Hierarchy of hazard controls

- **PPE**: Protect the worker with Personal Protective Equipment
  - Least effective

- **Administrative Controls**: Change the way people work
  - Second least effective

- **Engineering Controls**: Engineer out the hazard
  - Effective

- **Isolation**: Isolate people from the hazard
  - More effective

- **Substitution**: Replace the hazard
  - Least effective

- **Elimination**: Physically remove the hazard
  - Most effective
The best way to be safe at workplace is to prevent common accidents

| Identify and understand the common hazards in the work area |
| Practise safety measures |
| Use safe techniques for physical activities like pulling, pushing and lifting |
| Use safety equipment whenever required |
| Follow instructions while operating any machine |
| Take up security and safety training |

Swathi Kallesh