

Knowledge of personal safety and general precautions observed in the shop

Personal Protective Equipment

Devices, equipment, clothing are used by the employees as a last resort, to protect against hazards in the workplace. The primary approach in any safety effort is that the hazard to the workmen should be eliminated or controlled by engineering methods rather than protecting the workmen through the use of PPE. Engineering methods could include design change, substitution, ventilation, mechanical handling, automation, etc.

The Factories Act, 1948 and several other labour legislations 1996 have provisions for effective use of appropriate types of PPE.

Ways to ensure workplace safety and use PPE effectively

1. Workers to get up-to-date safety information from the regulatory agencies that workplace safety in their specific area.
2. To use all available text resources that may be in work area and for applicable safety information on how to use PPE best.
3. When it comes to the most common types of personal protective equipment, like goggles, gloves or bodysuits, these items are much less effective if they are not worn at all times, or whenever a specific danger exists in a work process. Using PPE consistently will help to avoid some common kinds of industrial accidents.
4. Personal protective gear is not always enough to protect workers against workplace dangers. Knowing more about the overall context of your work activity can help to fully protect from anything that might threaten health and safety on the job.
5. Inspection of gear thoroughly to make sure that it has the standard of quality and adequately protect the user should be continuously carried out.

Categories of PPES:

Depending upon the nature of hazard, the PPE is broadly divided into the following two categories.

1.Non-respiratory:

Those used for protection against injury from outside the body, i.e. for protecting the head, eye, face, hand, arm, foot, leg and other body parts.

2.Respiratory:

Those used for protection from harm due to inhalation of contaminated air. They are to meet the applicable BIS (Bureau of Indian Standards) standards for different types of PPE.

The guidelines on PPE is issued to facilitate the plant management in maintaining an effective programme with respect to protection of persons against hazards, which cannot be eliminated or controlled by engineering methods listed in table.

अ.क्र.	नंबर	शीर्षक
1	PPE1	Helmet
2	PPE2	Safety footwear
3	PPE3	Respiratory protective equipment
4	PPE4	Arms and hands protection
5	PPE5	Eyes and face protection
6	PPE6	Protective clothing and coverall
7	PPE7	Ears protection
8	PPE8	Safety belt and harnesses

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1	Head protection	1. Falling objects	Helmets
		2. Striking against objects	
		3. Spatter	
2	Foot protection	1. Hot spatter	Leather leg guards
		2. Falling objects	Safety shoes
		3. Working wet area	Gum boots
3	Nose	1. Dust particles	Nose mask
		2. Fumes/ gases/ vapours	
4	Hand protection	1. Heat burn due to direct contact	Hand gloves
		2. Blows sparks moderate heat	
		3. Electric shock	
5	Eye protection	1. Flying dust particles	Goggles
		2. UV rays IR rays heat and high amount of visible radiation	Face shield Hand shield Head shield
6	Face protective	1. Spark generated during welding, grinding	Face shield

		2.welding spatter striking	Head shield with or Without ear muff
		3.Face protection from UV rays	Helmets with welders screen for welders
7	Ear protection	1.High noise level	Ear plug
			Ear muff
8	Body protection	1. Hot particles	Leather aprons