

A collage of images illustrating various types of personal protective equipment (PPE). In the foreground, a person wears safety goggles and a purple shirt. To the left, a hand holds a pair of yellow nitrile gloves. To the right, a hand holds a pair of green nitrile gloves. In the background, a person wears a full-face respirator with a purple filter, and another person wears a grey hooded respirator. The text "PERSONAL PROTECTIVE EQUIPMENT" is overlaid in large, bold, yellow letters with a black outline.

# PERSONAL PROTECTIVE EQUIPMENT

# PPE REGULATIONS - OSHA

- 1910.132 – General
- 1910.133 – Eye & Face
- 1910.134 – Respirator
- 1910.135 – Head
- 1910.136 – Foot
- 1910.137 – Electrical
- 1910.138 – Hand



# OSHA REQUIREMENTS



- **Requires employer to assess the workplace**
- **Select appropriate PPE based on assessment**
- **Communicate selection decisions to employees**
- **Select PPE that properly fits**
- **Train employees in proper use of PPE**

# PPE – WRITTEN PROGRAM



- ❖ Purpose
- ❖ Hazard Assessment
- ❖ Selection Guidelines
- ❖ Employee Training
- ❖ Cleaning & Maintenance
- ❖ Responsibilities
- ❖ PPE Specific Information

# HAZARD ASSESSMENT

- Evaluate every job function in every department or work area
- Determine if hazards are present
- Check for hazards to eyes, respiratory system, head, feet, hands or body
- Determine what PPE will protect against hazards

# HAZARD CONSIDERATIONS

- **Impact**
- **Penetration**
- **Compression**
- **Chemical Exposure**
- **Heat or Cold**
- **Harmful Dust or Particles**
- **Light Radiation**
- **Electrical**



## PPE – HAZARD ASSESSMENT CERTIFICATION

JOB SITE: \_\_\_\_\_ DATE: \_\_\_\_\_

WORK ACTIVITY: \_\_\_\_\_

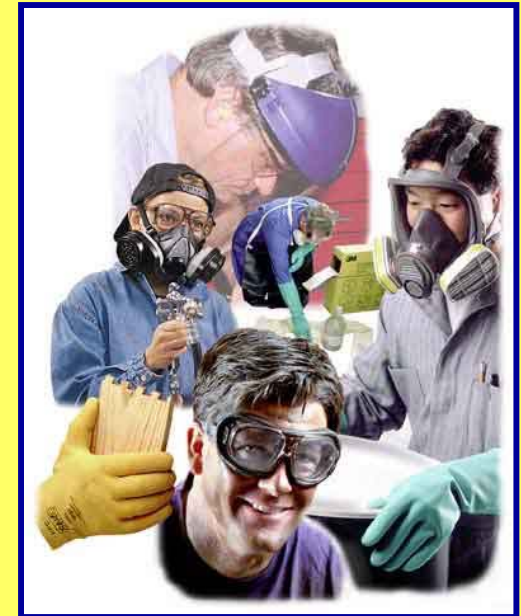
In the table below, check the appropriate box for each hazard present and identify the PPE to be worn to protect from this hazard:

HEAD HAZARDS			
HAZARD	YES	NO	PERSONAL PROTECTIVE EQUIPMENT
Burns			
Chemical Splash			
Electrical Shock			
Impact / Falling Objects			
HAND HAZARDS			
HAZARD	YES	NO	PERSONAL PROTECTIVE EQUIPMENT
Burns			
Chemical Exposure			
Cuts / Abrasions			
Puncture			
Cold			
EYE / FACE HAZARDS			
HAZARD	YES	NO	PERSONAL PROTECTIVE EQUIPMENT
Chemical Exposure			
Dust			
Heat			
Cold			
Impact / Flying Particles			
Light / Radiation			
FOOT HAZARDS			
HAZARD	YES	NO	PERSONAL PROTECTIVE EQUIPMENT
Chemical Exposure			
Falling / Rolling / Compression			
Impact			
Puncture			
Electrical Hazards			
Oily / Greasy / Slippery			
BODY HAZARDS			
HAZARD	YES	NO	PERSONAL PROTECTIVE EQUIPMENT
Heat			
Cold			
Chemical Exposure			

Selection of PPE should be based upon protection needed relative to tasks to be performed, conditions present, duration of use and hazards and/or potential hazards identified.

Prepared By: \_\_\_\_\_ Date: \_\_\_\_\_

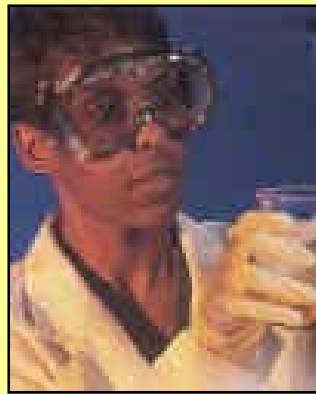
# PPE HAZARD ASSESSMENT FORM



# EYE & FACE PROTECTION



- Flying particles
- Molten metal
- Liquid chemicals
- Acid or caustic liquids
- Chemical gases or vapors
- Potentially injurious light radiation



# RESPIRATORY PROTECTION

- Inhalation of airborne dusts or particulates
- Inhalation of chemical vapors or fumes
- Lack of adequate oxygen
- Hazardous substances & exposures



# HEAD PROTECTION



- **Falling objects**
- **Exposed electrical conductors**
- **Low-hanging obstructions**



# FOOT PROTECTION

- ❖ **Falling or rolling objects**
- ❖ **Objects piercing the sole**
- ❖ **Exposure to electrical hazards**
- ❖ **Slippery walking surfaces**
- ❖ **Wet or muddy conditions**
- ❖ **Hazardous chemicals**
- ❖ **Cold weather conditions**



# HAND PROTECTION



- Skin absorption of harmful substances
- Severe cuts or lacerations
- Severe abrasions
- Punctures
- Chemical burns
- Thermal burns
- Electrical hazards

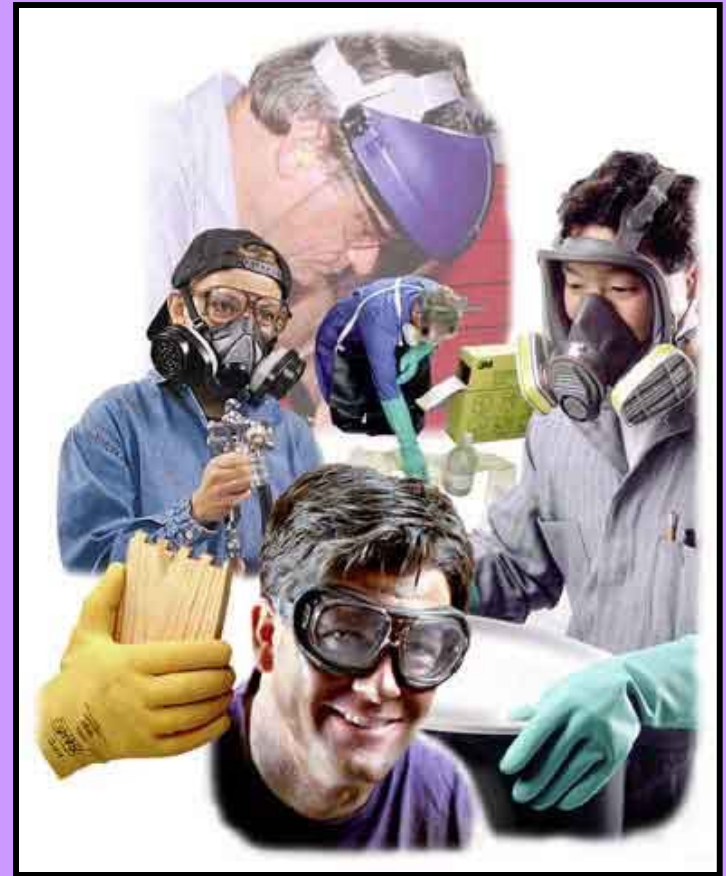
# GENERAL WORK CLOTHING

- ❖ Heat or cold
- ❖ Chemicals
- ❖ Welding hazards
- ❖ Heavy, sharp or rough materials
- ❖ Moving machinery
- ❖ Visibility
- ❖ Fall Protection



# PPE – SAFETY GUIDELINES-1

- ❖ **Hard Hats must be worn when overhead, falling or flying materials are present**
- ❖ **Safety glasses shall be worn when sledging, hammering, sawing, chipping, welding, grinding or working in dusty places**
- ❖ **Safety goggles or face shields shall be used when working with liquid chemicals, hot work, welding, cutting or brazing**
- ❖ **Foot protection must be worn on all construction sites, in the shop, or when engaged in activities where feet can be injured**



# PPE – SAFETY GUIDELINES-2



- ❖ Gloves must be worn to protect workers hands from physical and chemical damage during hot work, working with tools, carrying materials, etc.
- ❖ Safety vests must be worn on any job site that requires working within a roadway right-of-way
- ❖ Fall protection equipment is required when working at heights greater than 6 feet
- ❖ Respirators must be worn when the working atmosphere may cause inhalation hazards to the worker

# TRAINING



- **When is PPE required?**
- **What PPE is required for each job??**
- **How to properly wear the appropriate PPE?**
- **Limitations of specific PPE.**
- **Inspection, care and maintenance of PPE**
- **How to conduct hazard assessment.**

# INSPECTION & MAINTENANCE

- Inspect PPE prior to and after each use
- Properly store PPE when not using it
- Clean PPE after each use
- Perform minor maintenance when necessary
- Replace PPE is not in proper condition





**THE END**