PERSONAL PROTECTIVE EQUIPMENT

OSBT SP-311-00

EMPLOYEE EDUCATION 2019

PERSONAL PROTECTIVE EQUIPMENT

Overview

- Our #1 goal is to keep employees safe and prevent injuries!
- OSBT's PPE Program is comprised of the following elements:
  - Discuss Personal Protective Equipment
  - Employee safety training on how to use and maintain PPE
  - Program Review and Evaluation
- Please also review the following modules to get more in depth training on each type of PPE:
  - OSBT SP-300-00 Eye Protection
  - OSBT SP-301-00 Safety Shoe Policy
  - OSBT SP-302-00 Head Protection Policy

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What is PPE?

- Personal Protective Equipment, or PPE, includes a variety of devices and garments to protect workers from injury. You can find PPE designed to protect your:
  - Eyes
  - Face
  - Head
  - Ears
  - Feet
  - Hands
  - Arms
  - Entire body

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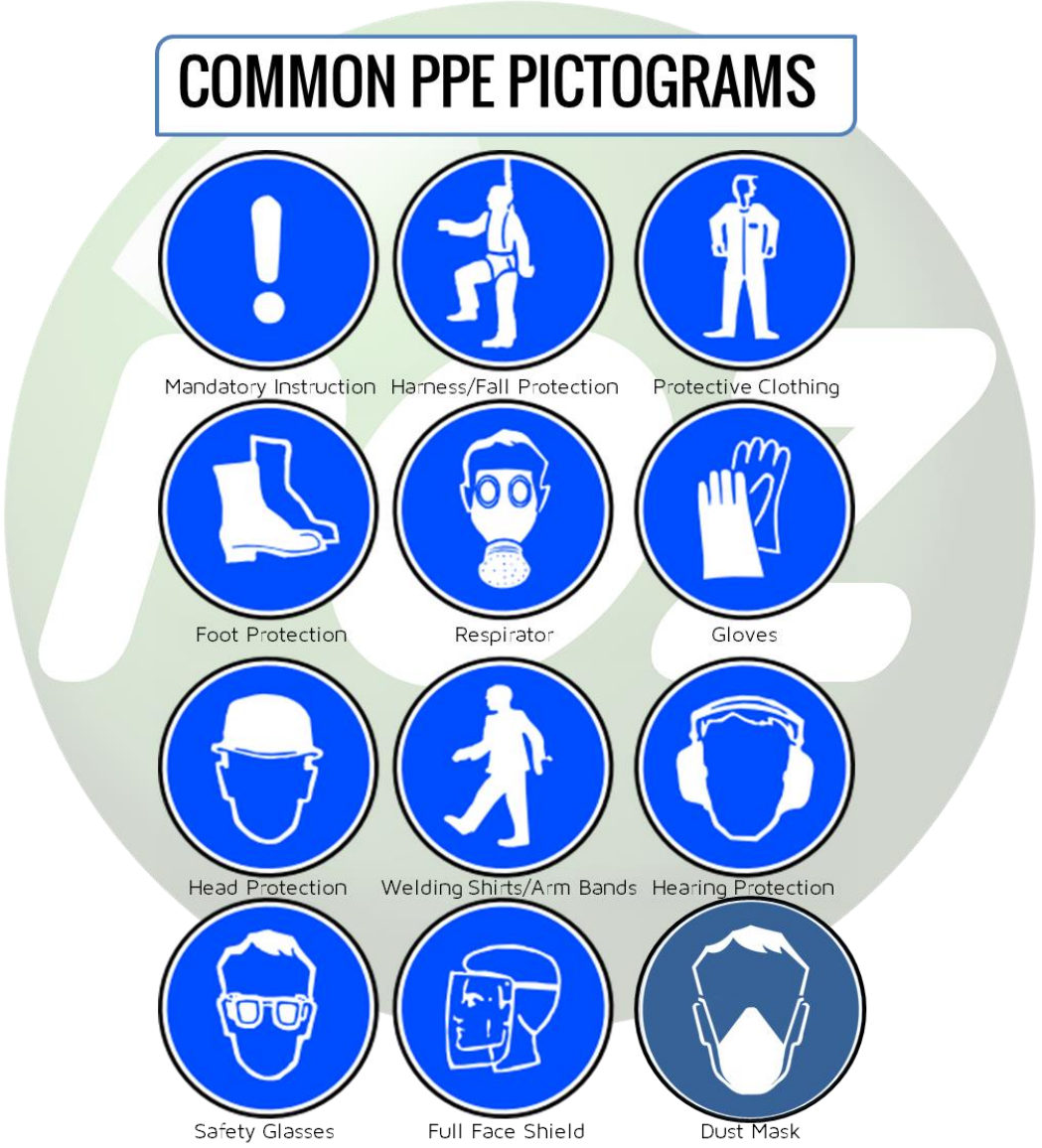
Common PPE Equipment

- Goggles
- Face shields
- Safety glasses
- Hard hats
- Safety shoes
- Gloves
- Vests
- Ear protection



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Hand Protection – Types of Hazards

- Knives, sharp edges, splinters
- Chemicals
- Excessive vibration
- Electricity
- Extreme cold
- Hot objects
- Blood & bodily fluids
- Amputations

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Hand Protection – Types of Hand Protection

- Gloves are the most common type of hand protection PPE, there are various types of gloves used for protection:
  - Leather gloves protect your hands from rough surfaces
  - Special insulated gloves can provide protection from hot objects
  - Cut-resistant gloves prevent or reduce cuts from knives or sharp edges
  - Anti-vibration gloves reduce the effects of excessive vibration from hand-tools and machinery
  - Disposable gloves protect against blood and germs
  - Various kinds of chemical resistant gloves prevent contact with chemicals

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Hand Protection – Types of Hand Protection

- Glove Limitations
  - Gloves can get caught in rotating machinery
  - Some people are allergic to latex gloves
  - Gloves can actually cause more problems if chemicals get inside glove
  - Gloves can fail in conditions of extreme temperatures, high mechanical force, high vibration or handling extremely harsh chemicals
- Glove Fit & Size
  - Gloves come in many sizes
  - Use properly fitting gloves that give you the needed dexterity

TOO BIG!

A better fit!

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Hand Protection – Types of Hand Protection

- Glove use and care
  - Your hands should be clean before using gloves.
  - Fabric and leather gloves should be cleaned regularly or discarded.
  - Latex gloves should not be used by latex-sensitive people.
  - Replace gloves if they have cuts, tears, holes or defects.
  - Make sure gloves are the right length for the job.
  - Don’t use fabric or leather gloves to handle liquid chemicals.
  - Use the right glove for the job!

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Hand Protection – Types of Hand Protection

- Chemical Resistant Gloves
  - The thicker the glove, the more resistant it is to chemicals.
  - Chemical-resistant gloves are not totally “chemical-proof”.
  - No single glove material will protect against all chemicals.
  - Gloves are selected according to the type of chemical.
  - Good chemical gloves are made of Viton®, butyl, nitrile, neoprene, PVC or PVA or combinations of these.
  - Chemicals will eventually penetrate the gloves over time.
  - Chemicals will also break down (swell, crack or weaken) the glove material over time.
  - You should know what chemical you are handling and how long the gloves will keep the chemical out.
  - Throw away gloves whenever degradation is visible or you know chemicals have leaked inside.
  - When handling highly toxic chemicals, two layers of chemical-resistant gloves can provide additional protection.

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Hand Protection – Types of Hand Protection

- Contaminated Gloves
  - Badly contaminated gloves are impossible to clean
  - Remove contaminated gloves safely and properly
  - Removal should be done in a way so that the bare hands do not touch the outside of the gloves

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Hand Protection – Body Clothing Protection

- Types of hazards that clothing protects employees from
  - Chemical
  - Physical
  - Biological
- Common Body Protection Clothing Items
  - Cooling Vest
  - Coveralls
  - Sleeves and Apron
  - Full body suit


Cooling Vest


Welding Apron


Lab Coat


Chemical Splash Apron


Reflective Safety Vest


Welding Coat


Tyvek Suit


Flame Resistant, Splash Protection Lab Coat

Thank You!

Thank you for completing PPE Program

Complete the Personal Protective Equipment Quiz

to receive credit for this module.

Have questions?

Contact HSSE@osbt.com