Personal protective equipment Your dress code for safety

Section I

Introduction

Introduction

The need for PPE
Types of PPE
Using PPE

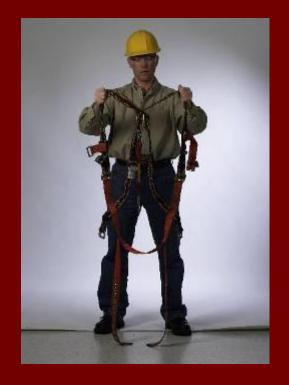




The need for PPE

The need for PPE

Hazard assessment
PPE selection
Employee training



Hazard assessment

Physical hazards: Falling, moving objects Sharp objects Temperature extremes Intense light radiation Electricity



Hazard assessment

Health hazards:
Dusts
Chemicals
Bloodborne pathogens



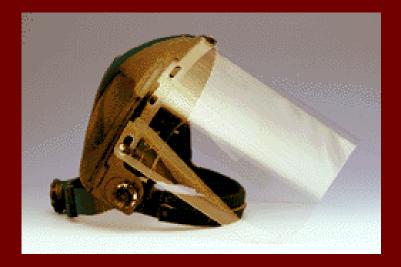
PPE selection

Different types of PPEDifferent levels of protection



PPE selection

Proper fit
Different sizes
Compatibility



Employee training

When PPE is needed What PPE is needed How to wear, adjust PPE Limitations Care, maintenance, disposal



Section III

Eye and face protection

When exposed to: Flying particles Molten metal Chemical liquids, gases, vapors Radiation Infectious material



Exposures can cause: Irritation Abrasions Cuts Burns Bruises Fractures



What to wear: Safety glasses Goggles Laser safety glasses Welding shields Face shields



What to wear:ANSI-approved



How to wear:
Proper fit
Unrestricted vision
No interference with other PPE



Limitations:
Improper fit
Corrective lenses
Contact lenses
Tinted lenses



Care: Safe storage Proper cleaning Disinfect shared PPE Replace scratched lenses Repair, replace damaged frames



Section IV

Head protection

When exposed to:
Falling objects
Electrical hazards
Fixed objects



Exposures can cause:
Impact injuries
Penetration injuries
Electrical shock, burns



What to wear:
Hard outer shell
Shock-absorbing suspension system
Resists penetration



What to wear: ANSI Z89.1-1986 Class A - limited voltage Class B - high voltage Class C - no electrical protection

 Type 1 - full brim
 Type 2 - peak over eyes

What to wear: ANSI Z89.1-1997 Class G - General - low voltage Class E - Electrical high voltage Class C -**Conductive - no** voltage

Type 1 - blow to top of head
Type 2 - blow may be off-center

How to wear: Adjust headband, suspension straps Chin strap Brackets, clips to attach PPE, accessories



How to wear:

hard hats

- Wear as designed, tested to be worn
- Backwards (mfg. approval)
 Sweatbands, liners for



Don't wear another hat under your hard hat!

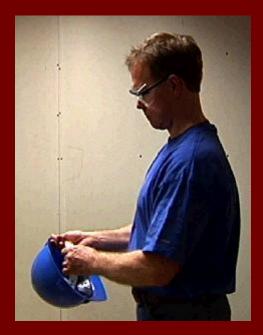
Limitations:

Not total protection from any falling object
Match Class to voltage
Bump caps - Not ANSI approved



Care:

- Inspect for dents, cuts, cracks, wear, damage
- Keep clean
- Don't store in direct sunlight
- Repair, replace damaged parts
- Replace after an impact



Section V

Foot protection

When exposed to: Falling, rolling objects Electrical hazards Static electricity Hot substances Corrosive, toxic materials



- **Exposures can**
 - cause:
- Bruises
- Cuts
- Fractures
- Puncture wounds
- Electric shock
 Electrocution
 Burns
 Irritation

What to wear:
Safety-shoes
Puncture-resistant insoles
Metatarsal guards



What to wear:
Conductive
Static dissipative
Electrical hazard



What to wear:
Foundry shoes
Leggings, chaps
Chemical-resistant boots



How to wear:
Get a good fit!
Wear when needed
Avoid cross-contamination



Limitations:

Toe-caps & metatarsal guards
Puncture-resistance
Electrical hazard: dry, clean
Conductive: non-static socks

Foot protection

Care: Inspect before use Cracks, holes, separation Keep clean Replace damaged PPE



Section VI

Hand protection

When exposed to: Chemicals Hot, cold materials Electrical hazards Sharp, rough materials



Exposures can cause: Burns Electrical shock Cuts, abrasions, punctures Bruises, fractures



What to wear - Gloves:
Rubber, plastic
Leather
Canvas, fabric
Metal mesh



What to wear - Rubber gloves:
Chemical resistance
Conditions of use
Thickness, grip
Mfg. recommendations



What to wear - Rubber gloves: Natural rubber Neoprene Butyl Nitrile Others



What to wear - Gloves:
Leather
Canvas, fabric
Metal mesh



How to wear:
Good fit
Layers
Avoid contamination



Limitations:

Use the glove for its intended use
 Many factors influence glove selection



Care:
Inspect for tears, punctures
Electrical protective glove tests
Keep clean if re-used
Replace damaged PPE



Section VII

Summary

Summary

The need for PPE
Types of PPE
Using PPE

Personal protective equipment

Questions?