

# e-Briefing on Resource Efficiency

## Reed Consulting Bangladesh Ltd.



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## Personnel Protective Equipment (PPE)

### What is PPE?

Personnel Protective Equipment (PPE) is intended to be worn or held by a person at work against risks to his health or safety.

Proper selection of PPE depends on the nature of the work, associated hazards, size, fit and comfort for the person to wear.

### The potential hazards and PPE types:

#### Eyes

Hazard: chemical or metal splash, dust, flying objects, gas / vapour, radiation.



Solution: safety spectacles, goggles, face shields, visors.

#### Head

Hazard: impact from falling objects, head bumping, hair entanglement.



Solution: helmets / bump caps and hair nets.

#### Breathing

Hazard: dust, vapour, gas, oxygen-deficient atmospheres.



Solution: disposable filtering face piece or respirator, half- or full-face respirators, air-fed helmets, breathing apparatus. Specialist advice is essential.

### Protecting the body

Hazard: temperature extremes, adverse weather, chemical or metal splash, spray from leaks or spray guns, impact or penetration, contaminated dust, excessive wear or entanglement of own clothing.



Solution: conventional or disposable overalls, boiler suits, specialist protective clothing, e.g. high-visibility clothing

### Hands and arms

Hazard: abrasion, temperature extremes, cuts and punctures, impact, chemicals, electric shock, skin infection, disease or contamination, etc.



Solution: gloves, wrist cuffs, armllets.

### Feet and legs

Hazard: wet, electrostatic build-up, slipping, cuts and punctures, falling objects, metal and chemical splash, abrasion.



Solution: safety boots and shoes with protective toe caps and penetration-resistant mid-sole, gaiters, leggings.

- Train staff on how to use PPE.
- Train staff on how to maintain them, keep clean and store in right environment.

For further information about engineering consultancy waste, energy and water minimisation and OHS please contact our Principal Engineering Consultant Dr. Abbas Uddin [abbas.uddin@reedconsultingbd.org](mailto:abbas.uddin@reedconsultingbd.org).

RCB provides consultancy in Energy Efficiency, Process Improvement, Water Minimisation, Cleaner Production, Occupational Health and Safety including Electrical System Assessment.

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