

PERSONAL PROTECTIVE EQUIPMENT GUIDELINES FOR CONTRACTORS



1 PERSONAL PROTECTIVE EQUIPMENT (PPE)

PPE is defined as 'all equipment which is intended to be worn or held by a person at work and which protects them against one or more risks to his health or safety.

- 1.1 Employees are required to wear mandatory and area / task specific PPE.
- 1.2 Area / Task specific PPE - Area specific PPE will be identified by mandatory signage. Task specific shall be determined through Risk Assessments of task.
- 1.3 Respirators shall be worn in the areas defined by area. Respirators shall be correctly used and maintained. The respiratory protection shall be adequate for the specific chemical agents present in the area. The respirators to be used by contractors shall be approved by EHS Department.
- 1.4 Employees must receive training for correct use and maintenance of respirators.

Figure: Mandatory PPE

	SPECIFICATIONS	CERTIFICATIONS
Hardhat	White and Yellow	Type I ANSI/ISEA Z89.1-2009 (Class G)
Safety goggles	White safety goggles with lateral protection.	EN 166: optical class 1, F, 9
Safety Shoes	Safety Shoes with toe cap	EN 345: I, M / ASTM F 2413-11

Figure: Task Specific PPE

PPE REQUIRED DEPENDING ON THE ACTIVITY		
Hearing protection	Mandatory when personal exposure exceeds 85 dBA for 8h or 100 dBA for 15 minutes or 137 dBA for peaks	EN 352-1 EN 352-2
Gloves	Protection against mechanical risks.	EN 388
Hot work activities	For welding works	EN 166
MASK 3M 8810 OR 3M 8240	Housekeeping, presence of dust during unloading, sand storm, etc.)	EN 149
Life-jacket	Required while working closer than 1.8 m from the edge in wharf Area.	EN 396

1.5 Mandatory PPE requirements are applicable when not working in office areas and are as follows:

Reduction Area (pot rooms and smelter services)

MANDATORY PPE		
	SPECIFICATIONS	CERTIFICATIONS
Clothing	hot metal uniform with arc flash protection category 2 manufactured to the specification blue shirt with yellow reflective straps blue trousers	EN ISO 11612: 2008 - A1, A2, B1, C1, D3, E3, F1 & EN 340:2003. ASTM D3776, D3775, D5034, D1424, D737, D1230, D6413, F1506, D3884, 955-03, AATCC 135 & NFPA 70E
Hardhat	White and Yellow	Type I ANSI/ISEA Z89.1-2009 (Class G)
Safety goggles	White safety goggles with lateral protection.	EN 166: optical class 1, F, 9 (frame)
Safety Shoes	hot metal boot when working in hot metal area heat resistance outsole impact resistance electrical hazard protection when working in outside of pot room general safety boot with following specifications 200 Joule steel toe cap and midsole Shock absorber heel Anti-slip and anti-static Sole resistant to oil, acids and alkalis heat resistance outsole 300 C°	EN ISO 20349:2010; CSA Z195-09 EN ISO 20345:2004/A1:2007; BS EN345 S3
Hearing Protection	Mandatory when personal exposure exceeds 85 dBA for 8h or 100 dBA for 15 minutes or 137 dBA for peaks	EN 352-1 EN 352-2
Gloves	Protection against mechanical risks.	EN 388
MASK 3M 7500 with 3M6003	Housekeeping, presence of multi type of fumes and harmful substances	EN 149
Safety Harness	Required while working on height of equal to or more than 1.8 m	EN 396.

Carbon and Port:

MANDATORY PPE		
	SPECIFICATIONS	CERTIFICATIONS
Clothing	Work Clothing with long sleeve and pants with reflective strips on the arms when working in Rodding room hot metal uniform with arc flash protection manufactured to the specification blue shirt with yellow reflective straps blue trousers	EN 531
Hardhat	White and Yellow	Type I ANSI/ISEA Z89.1-2009 (Class G)
Safety goggles	White safety goggles with lateral protection.	EN 166: optical class 1, F, 9 (frame)
Safety Shoes	200 Joule steel toe cap and midsole Shock absorber heel Anti-slip and anti-static Sole resistant to oil, acids and alkalis	EN345 S3
Hearing protection	Mandatory when personal exposure exceeds 85 dBA for 8h or 100 dBA for 15 minutes or 137 dBA for peaks	EN 352-1
Gloves	Protection against mechanical risks.	EN 352-2 EN 388
MASK 3M 7500 with 3M6001 and 6003 in Rodding room	Housekeeping, presence of multi type of fumes and harmful substances	EN 149
Safety Harness	Required while working on height of equal to or more than 1.8 m	EN 396.

Cast House

MANDATORY PPE		
	SPECIFICATIONS	CERTIFICATIONS
Clothing	Flame Retardant cloth for working on molten metal handling areas	EN ISO 11612: 2008 - A1, A2, B1, C1, D3, E3, F1 & EN 340:2003. ASTM D3776, D3775, D5034, D1424, D737, D1230, D6413, F1506, D3884, 955-03, AATCC 135 & NFPA 70E
Hardhat	White and Yellow	Type I ANSI/ISEA Z89.1-2009 (Class G)
Safety goggles	White safety goggles with lateral protection.	EN 166: optical class 1, F, 9 (frame)
Safety Shoes	hot metal boot when working in hot metal area heat resistance outsole impact resistance electrical hazard protection when working in cold side general safety boot with following specifications 200 Joule steel toe cap and midsole Shock absorber heel Anti-slip and anti-static Sole resistant to oil, acids and alkalis heat resistance outsole 300 C°	EN ISO 20345:2004/A1:2007; BS EN ISO 20349:2010; CSA Z195-09 EN345 S3
Hearing protection	Mandatory when personal exposure exceeds 85 dBA for 8h or 100 dBA for 15 minutes or 137 dBA for peaks	EN 352-1 EN 352-2
Gloves	Protection against mechanical risks.	EN 388
Mask 3M 7500 with 3M 6003	Housekeeping, presence of multi type of fumes and harmful substances	EN 149
Safety Harness	Required while working on height of equal to or more than 1.8 m	EN 396.

Power and Desalination:

MANDATORY PPE		
	SPECIFICATIONS	CERTIFICATIONS
Clothing	Arc Flash uniform with flame retardant protection and category 2 arc flash protection	ASTM F1959:2006/F1959M-06æ1 conform a ASTM F1506-10a NFPA 70E HRC -2
Hard hat	White and Yellow	Type I ANSI/ISEA Z89.1-2009 (Class G)
Safety goggles	White safety goggles with lateral protection.	EN 166: optical class 1, F, 9 (frame)
Safety Shoes	200 Joule steel toe cap and midsole Shock absorber heel Anti-slip and anti-static Sole resistant to oil, acids and alkalis heat resistance outsole 300 C°	EN345 S3 HRO EH C.S.A. Z195 P 4.4 ASTM 2413-11
Hearing Protection	Mandatory when personal exposure exceeds 85 dBA for 8h or 100 dBA for 15 minutes or 137 dBA for peaks	EN 352-1 / EN 352-2
Gloves	Protection against mechanical risks.	EN 388
MASK 3M 7500 with 3M6006	Housekeeping, presence of multi type of fumes and harmful substances	EN 149
Safety Harness	Required while working on height of equal to or more than 1.8 m	EN 396.

- 1.6 In addition we have the following requirements:
 - 1.6.1 All PPE shall be to either the European (EN) or American (ANSI) standards and suitable for purpose.
 - 1.6.2 All types equipment shall be compatible with each other to ensure continued, unaltered protection from all items.
 - 1.6.3 All PPE must fit the individuals properly.
 - 1.6.4 All PPE issued must be provided free of charge to the employee.
 - 1.6.5 PPE must be replaced when damaged or worn to the point where protection is reduced.
- 1.7 Respiratory Protection
 - 1.7.1 Respirators must be worn in the areas defined by Area. Respirators must be correctly used and maintained. The respiratory protection must be adequate for the specific chemical agents present in the area. The respirators to be used by contractors must be approved by EHS Department
 - 1.7.2 Contractor's employees wearing respiratory protection must pass a fit test and must be medically qualified for wearing respirator.
 - 1.7.3 Employees must receive training for correct use and maintenance of respirators.
- 1.8 Hearing Protection
 - 1.8.1 Hearing protection must be worn all time in designated areas.
 - 1.8.2 Hearing protection shall comply with prevailing legislation. In the absence of sufficiently defining legislation, compliance to the relevant CSA or ANSI Standard shall suffice.
 - 1.8.3 Hearing protection shall be available at all times and shall be worn whenever they enter a noise zone, or when noise levels exceed 85 dBA (i.e. when it is difficult to hear a normal conversation from 1 metre [3 feet] away).
 - 1.8.4 Employees must receive training for correct use and maintenance of hearing protection.

**Regards,
HSE Department**

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