

M&C Eye & Face Protection Requirements

Hazard Class	Examples of the types of activity	Typical Locations	Primary Hazard Control	Minimum Required Eye & Face Protection (PPE)
High - Credible Serious Eye - Hazards	Acid cleaning, acid etching, electroplating, use of powders and liquids declared to be corrosive by the MSDS or other reliable source	Metal Processing Group (High Bay-Acid Room) Metallography	Effective use of Lab hood and sash as guard	Faceshield & goggles
	Metal forming, open melting of metals	Metal Processing 4508 and 3012	Individual experience & training, approved SOGs	Faceshield & safety glasses with side shields
	Machining, grinding, high speed cutting	Metal Processing, Metal Joining and many other M&C labs	Enclosures, moveable Plexiglass barriers, lab hood sash	Faceshield & safety glasses with side shields (fully-enclosed equipment, safety glasses and side shields)
	Welding	Metal Joining	Training & experience	Welders hood with proper lens for the welder, safety glasses with side shields for others in area
Moderate - Marginally Credible Eye - Hazards	Transfer of liquid nitrogen	SEM/TEM Labs & throughout M&C	Minimize quantities provide	Faceshield & Safety glasses with side shields.
	Changing Compressed gas regulators for non-corrosive, low toxicity gases	Throughout M&C	Training & experience	Safety glasses and side shields
w - Nearly Incredible Eye - Hazards	Use of squeeze bottles of Acetone, Methanol, Ethanol or isoPropanol in small quantities	Most M&C Labs – used for surface cleaning and preparations	Use of low quantities, irritant but not corrosive liquid chemicals	Safety glasses
	Use of low toxicity, non-corrosive powders	Metals and ceramics formulation labs	Use of low gram quantities, non-corrosive/toxic powders	

