

Form Number LLCF-056	Issue Date 01/01/11	Revision Date 06/15/21	Form Number LLCF-056
	PPE Hazard Assessment		

Area	Procedure	Hazards	Eye/Face Protection	Head Protection	Foot Protection	Hand Protection
	Welding, Cutting, Burning	Optical Radiation	<p>Welding Goggles or welding face shield. Typical shades: gas welding 4-6, cutting 3-6, brazing 3-4 (See Note 9)</p> <p>Cutting, torch brazing, torch soldering; spectacles or welding face-shield. Typical shades, 1.5 -3. (See Notes 3 & 9)</p> <p>Welding: Electric arc; welding helmet or welding shields. Typical shades; 10-14. (See Notes 9 & 12)</p>	<p>Hard hats are required during all welding operations, unless a variance (MOC) is obtained before work begins.</p> <p>Hearing protection required</p>	Steel toes, impact/compression resistant shoes/boots if danger of falling materials	Leather Gloves
	Handling Piping, Metal Sheeting	Sharp/jagged edges, Hot metal, heavy objects	Spectacles w/side shields	Hard hat	Steel toes, impact/compression resistant shoes/boots	Cotton, cloth, canvas, or leather gloves
	Grinding, Chipping, Buffing, Deburring	Flying fragments, objects, large chips, particles	Spectacles w/side shields, goggles, face shields. (See Notes 1, 3, 5, 6, 10) For severe exposure use face shield.	Hard hat Hearing protection	Steel toes/impact resistant shoes/boots	Cotton, cloth, canvas, or leather gloves
	Nuisance dust	Windblown matter	Spectacles w/side shields, extreme cases use goggles	Hard hat		
	Refractory Chipping, Removal	Dust, falling material hazards	Face shield w/goggles. In confined space use full-face respirator.	Hard hat Hearing protection	Steel toe/impact resistant shoe/boots Metatarsal/shin guards	Cotton, cloth, canvas, leather, or anti-vibration gloves.

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	Fab Shop Welding	Optical radiation	To protect personnel in the vicinity and passersby, use welding screens	Hard hat Hearing protection	Steel toe/impact resistant shoes/boots	
	Materials/Tools/Equipment Handling	Sharp edges/points, pinch points; heavy weight (utilize proper lifting techniques)	Spectacles w/side shields, goggles if material is dusty	Hard hat	Steel toe/impact resistant shoes/boots	Cotton, cloth, canvas, or leather gloves
	Chemicals - Acids, solvents, degreasing, handling.	Splash, irritating mists	Chemical Goggles. For severe exposure use goggles w/face shield. (See notes 3 & 11)	Hard hat		Chemical resistant neoprene, butyl, or PVC gloves
	Abrasive Blasting	Silica Dust	Type CE Abrasive Blasting Respirator; approved particulate respirator for clean-up	Hearing protection Blasting helmet	Steel toe/impact resistant shoes/boots	Cotton, cloth, canvas, or leather gloves
	Refractory installation	Silica/Ceramic fibers	Spectacles w/side-shields; Face Shield w/goggles Approved full-face respirator/fresh-air respirator	Hard hat Hearing protection	Steel toe/impact resistant shoes/boots	Cotton, cloth, canvas, or leather gloves
	Heat Cure/Stress	High temperature/hot surfaces; Potential CO exposure	Spectacles w/side-shields Adequate ventilation and monitoring for CO	Hard hat Hearing protection	Steel toe/impact resistant shoes/boots	Leather gloves
	Painting	Vapors, mists, fumes	Approved respirator; Spectacles w/side shields or goggles	Hard hat Hearing protection	Steel toe/impact resistant shoes/boots	Cotton, cloth, canvas, or leather gloves

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	Confined Space Entry	O2 Deprivation, Flammable materials, toxic materials/substances	Spectacles w/side-shields; face shield/goggles; respiratory protection in the form of approved half-mask/full-face respirators; fresh-air as required; monitoring confined space.	Hard hat Hearing protection	Steel toe/impact resistant shoes/boots	Cotton, cloth, canvas, leather. Chemical resistant neoprene, butyl, or PVC gloves

NOTES:

1. Care should be taken to recognize the possibility of multiple and simultaneous exposure to a variety to hazards. Adequate protection against the highest level of each of the hazards should be provided. Protective devices do not provide unlimited protection.
2. Operations involving heat may also involve light radiation. As required by the standard, protection from both hazards must be provided.
3. Face shields should only be worn over primary eye protection (spectacles or goggles).
4. As required by the standard, filter lenses must meet the requirements for shade designations in 1910.133(a)(5). Tinted and shaded lenses are not filter lenses unless they are marked or identified as such.
5. As required by the standard, persons whose vision requires the use of prescription (RX) lenses must wear either protective devices fitted with prescription (RX) lenses or protective devices designed to be worn over regular prescription (RX) lenses.
6. Wearers of contact lenses must also wear appropriate eye and face protection devices in a hazardous environment. It should be recognized that dusty and/or chemical environments may represent an additional hazard to contact lens wearers.
7. Caution should be exercised in the use of metal frame protective devices in electrical hazard areas.
8. Atmospheric conditions and the restricted ventilation of the protector can cause lenses to fog. Frequent cleaning may be necessary.
9. Welding helmets or face shields should be used only over primary eye protection (spectacles or goggles).
10. Non-side shield spectacles are available for frontal protection only, but are not acceptable eye protection for the sources and operations listed for “impact”.
11. Ventilation should be adequate, but well protected from splash entry. Eye and face protection should be designed and used so that it provides both adequate ventilation and protects the wearer from splash entry.
12. Protection from light radiation is directly related to filter lens density. (See note 4) Select the darkest shade that allows task performance.