

## **Eye and Face Protection Selection Guide**

The following chart shows some common shop workplace activities and the required eye and face protection equipment for each activity. Contact your supervisor and/or safety coordinator for more information about the selection of eye and face protection for these and other work activities.

<u><b>ACTIVITY</b></u>	<u><b>EYE/FACE HAZARDS</b></u>	<u><b>EYE/FACE PROTECTION</b></u>
Acetylene welding	Sparks, optical radiation, flying particles	Welding goggles or welding helmet worn over safety glasses with sideshields.
Chemical handling, laboratory operations	Chemical splash or spill, acid burns, fumes, glass breakage	Chemical goggles. Use a faceshield plus chemical goggles for severe exposure.
Cutting, brazing, soldering	Sparks, optical radiation, flying particles, flashburns	Safety glasses with shaded lenses or welding shield. Use faceshield plus safety glasses for severe exposure.
Electric arc welding	Sparks, optical radiation, flying particles	Welding shield or welding helmet worn over safety glasses with sideshields.
Grinding, sawing	Flying particles, dust	Impact goggles or safety glasses with sideshields. Use a faceshield plus impact goggles or safety glasses for severe exposure.
Laser operations	Reflected or direct laser beam impact	Narrow or broad spectrum laser spectacles or goggles. Selection is based on type of laser.
Machining	Flying particles, mists, vapors	Safety glasses with sideshields or goggles.
Medical examinations, First Aid procedures	Contact with body fluids/bloodborne pathogens	Safety glasses with solid sideshields. Use safety goggles or faceshield plus goggles for severe exposure.
Pesticide/fertilizer application with hand sprayer	Chemical splash or spill, airborne chemicals	Chemical goggles or safety glasses. Use faceshield plus safety glasses/goggles for severe exposure.

This chart shows some common shop hazards and the required eye and face protection equipment for each. Contact your supervisor and/or safety coordinator for more information about the selection of eye and face protection for these and other work activities.

<b>Source</b>	<b>Assessed Hazard</b>	<b>Protection</b>
IMPACT	Flying fragments, objects, large chips, particles of sand, dirt, etc.	Spectacles with side protection, goggles, face shields. See notes (1), (3), (5), (6) and (10). For severe exposure, use face shield.
HEAT	Hot sparks	Face shields, goggles, spectacles with side protection. For severe exposure use face shield. See notes (1), (2) and (3).
	Splash from molten metals	Face shields worn over goggles. See notes (1), (2) and (3).
	High temperature exposure	Screen face shields, reflective face shields. See notes (1), (2), and (3).
CHEMICALS	Splashing liquids	Goggles, eyecup and cover types. For severe exposure, use face shield. See notes (3) and (11).
	Irritating mists	Special purpose goggles.
DUST	Nuisance dust	Goggles, eyecup and cover types. See note (8).
LIGHT and/or RADIATION- Welding: Electric arc	Optical radiation	Welding helmets or welding shields. Typical shades: 10 - 14. See notes (9) and (12).
Welding: Gas	Optical radiation	Welding goggles or welding face shield. Typical shades: gas welding 4-8, cutting 3-6, brazing 3-4. See note (9).
Cutting, Torch brazing, Torch soldering	Optical radiation	Spectacles or welding face shield. Typical shades: 1.5-3. See notes (3) and (9).
Glare	Poor vision	Spectacles with shaded or special-purpose lenses, as suitable. See notes (9), (10).