

## Shop Work – Personal Protective Equipment Requirements

### To be worn at ALL TIMES:

Job/Tasks	Potential Exposures	Personal Protective Equipment
Basic shop attire	For protection from: <ul style="list-style-type: none"> <li>Flying particles/objects (eyes)</li> <li>Slippery/wet surfaces, impacts (feet)</li> <li>Entanglement (hair)</li> </ul>	<ul style="list-style-type: none"> <li>Safety glasses</li> <li>Closed-toe, low/no heel, solid top shoes</li> <li>Hair tied back and secured (not hanging)</li> </ul>

### ADDITIONAL PPE requirements when:

Job/Tasks	Potential Exposures	Additional Personal Protective Equipment
Using hand and fixed powered dimensional shaping and cutting equipment	<ul style="list-style-type: none"> <li>Flying particles/ objects (face, eyes)</li> <li>Loud work environment (ears)</li> </ul>	<ul style="list-style-type: none"> <li>Face shield (as needed)</li> <li>Hearing protection (plugs or muffs)</li> </ul>
Grinding	<ul style="list-style-type: none"> <li>Flying particles (face, eyes)</li> <li>Loud work environment (ears)</li> </ul>	<ul style="list-style-type: none"> <li>Face shield (as needed)</li> <li>Hearing protection (plugs or muffs)</li> </ul>
Welding	<ul style="list-style-type: none"> <li>Radiant energy (eyes)</li> <li>Burns to unprotected skin (hands, wrists, body)</li> </ul>	<ul style="list-style-type: none"> <li>Welder's helmet or shield with appropriate filter for type of welding (consult table – Filter Lenses for Protection Against Radiant Energy)</li> <li>Work gloves – abrasion/ cut/ temperature resistant</li> <li>Safety shoes</li> <li>Welder's apron or jacket</li> </ul>
Soldering	<ul style="list-style-type: none"> <li>Molten metal splashes (hands)</li> </ul>	<ul style="list-style-type: none"> <li>Gloves – temperature resistant</li> </ul>
Surface preparation, scraping, sanding, wiping, etc. manually	<ul style="list-style-type: none"> <li>Materials, tools or equipment that could scrape, bruise or cut (hand)</li> </ul>	<ul style="list-style-type: none"> <li>Work gloves – abrasion/ cut resistant</li> </ul>
Minor chemical use – applying paint/ coatings by brush, applying lubricants, small amts of solvents, adhesives, etc	<ul style="list-style-type: none"> <li>Minor chemical splash (eye)</li> <li>Irritating chemicals (hand)</li> </ul>	<ul style="list-style-type: none"> <li>Goggles (as needed)</li> <li>Gloves – nitrile, exam style (not near moving equipment)</li> </ul>
Spray painting (aerosol cans, no compressor)	<ul style="list-style-type: none"> <li>Skin irritation to unprotected skin (hands, body)</li> </ul>	<ul style="list-style-type: none"> <li>Nitrile gloves</li> <li>Tyvek jacket or coveralls</li> </ul>

Job/Tasks	Potential Exposures	Additional Personal Protective Equipment
	<ul style="list-style-type: none"> <li>• Aerosol contact (eyes)</li> <li>• Inhalation of solvent vapor and aerosol (lungs)</li> </ul>	<ul style="list-style-type: none"> <li>• Goggles</li> <li>• Respirator (as needed – contact EHS)</li> </ul>
Compressor-based spray painting in spray booth	<ul style="list-style-type: none"> <li>• Paint aerosols (eyes, respiratory system)</li> <li>• Paint, solvent skin contact (hand)</li> </ul>	<p>When painting from outside the booth</p> <ul style="list-style-type: none"> <li>• Chemical goggles</li> <li>• Gloves – nitrile, exam style</li> </ul> <p>When painting from within booth (breaking the plane (or face) of the booth add:</p> <ul style="list-style-type: none"> <li>• Respirator – half-face mask with organic vapor cartridge and particulate pre-filter</li> <li>• Tyvek coveralls with hood</li> </ul>
Other activities anticipated to generate significant quantities of flying particles	<ul style="list-style-type: none"> <li>• Flying particles/ objects (eyes, face)</li> </ul>	<ul style="list-style-type: none"> <li>• Faceshield</li> </ul>
Handling sharp metal edges and freshly cut metal edges	<ul style="list-style-type: none"> <li>• Materials that could scrape, bruise or cut (hand)</li> </ul>	<ul style="list-style-type: none"> <li>• Work gloves – abrasion/ cut resistant</li> </ul>
Heavy materials handling	<ul style="list-style-type: none"> <li>• Heavy falling objects (feet, toes)</li> </ul>	<ul style="list-style-type: none"> <li>• Safety shoes (steel toe)</li> </ul>