

# Safety Instructions and Job Hazard Analysis: Angle Grinders

Job/Task Step	Hazard	Hazard Control Method/PPE
<ul style="list-style-type: none"> <li>Inspect Equipment/PPE Check/Buddy System</li> </ul>	N/A	<ul style="list-style-type: none"> <li>Ensure that you communicate with someone in the space of your activities and have them review this document with you so all hazards are known.</li> </ul>
<ul style="list-style-type: none"> <li>Check cord integrity, condition of grinding wheel, and appropriate RPM.</li> </ul>	Hand cut from cut wires.	<ul style="list-style-type: none"> <li>Wear safety gloves.</li> <li>Inspect slowly.</li> </ul>
<ul style="list-style-type: none"> <li>Verify that the guard is tight and appropriate for the job.</li> <li>Verify the appropriate handle location.</li> <li>Inspect the trigger for physical damage and proper operation.</li> </ul>	Foot injury from dropping the tool.	<ul style="list-style-type: none"> <li>Rest the tool on the bench while inspecting it.</li> <li>Wear closed-toe shoes.</li> </ul>
<ul style="list-style-type: none"> <li>Make sure the materials being ground/cut are adequately secured and positioned correctly, and appropriate for this tool</li> </ul>	Injuries associated with the work propelled by the grinder and/or landing on you.	<ul style="list-style-type: none"> <li>Verify the work piece is adequately secured by trying to dislodge it with a gloved hand (the work weight may secure it enough).</li> <li>Verify that the work piece is steel or iron</li> <li>Wear safety gloves and closed-toe shoes.</li> <li>The auxiliary grip handle must be secured, on right or left depending on comfort and preference</li> </ul>
<ul style="list-style-type: none"> <li>Plug in the grinder</li> </ul>	Eye and skin damage from projectiles.	<ul style="list-style-type: none"> <li>Check the trigger to make sure it is in the "OFF" position.</li> </ul>
<ul style="list-style-type: none"> <li>STOP</li> </ul>	PPE CHECK	<ul style="list-style-type: none"> <li>REQUIRED: Safety glasses</li> <li>REQUIRED: Safety gloves</li> <li>REQUIRED: Long pants and closed-toe shoes</li> <li>RECOMMENDED: Ear plugs.</li> </ul>
<ul style="list-style-type: none"> <li>Turn the grinder on and begin grinding</li> </ul>	Eye injuries from projectiles and sparks.	<ul style="list-style-type: none"> <li>Wear safety glasses.</li> </ul>
	Skin damage from sparks and projectiles.	<ul style="list-style-type: none"> <li>Wear safety gloves, long pants, a long sleeved-shirt or protective guards.</li> </ul>
	Hearing damage.	<ul style="list-style-type: none"> <li>Wear recommended ear protection.</li> </ul>
	Inhalation of toxic or irritant fumes or particulates.	<ul style="list-style-type: none"> <li>Do not cut or grind painted steel or any non-ferrous materials.</li> </ul>

<ul style="list-style-type: none"><li>• Turn off the grinder</li></ul>	Abrasions/lacerations/pinch points	<ul style="list-style-type: none"><li>• Do not attempt to touch the rotating disk or remove your material until the grinder has stopped moving completely.</li></ul>
<ul style="list-style-type: none"><li>• Remove material from secured position.</li></ul>	Abrasions/lacerations/pinch points	<ul style="list-style-type: none"><li>• Wear gloves while handling the material.</li><li>• Use proper lifting techniques and ask for help should the material be too heavy or awkward to lift.</li></ul>
<ul style="list-style-type: none"><li>• Clean work area</li></ul>	Abrasions/Lacerations, Flying Debris	<ul style="list-style-type: none"><li>• Wear gloves while picking up larger pieces of cut material for disposal.</li><li>• Wear Safety Glasses to prevent eye injury while sweeping the area on and under the saw.</li></ul>

In case of malfunction: If the tool does not perform as anticipated, or makes an unfamiliar sound, or creates any safety concerns: IMMEDIATELY notify a Maker Ninja and ask them to Lockout and Tag out the tool until a follow-up inspection can be completed.