

### SAFE WORK PRACTICE

<b>TITLE</b>	Grinder Operations
<b>GENERAL</b>	Protecting workers from injuries associated with working with grinder operations
<b>APPLICATION</b>	As per job description
<b>PROTECTIVE MECHANISMS</b>	Safe work procedure Personal Protective Equipment (PPE) ERP (emergency Response Plan)
<b>SELECTION AND USE</b>	Safe work procedure Job requirement
<b>SUPERVISOR RESPONSIBILITY</b>	To facilitate and/or provide proper instruction to their workers on protection requirements
<b>WORKER RESPONSIBILITY</b>	<ol style="list-style-type: none"> <li>1. Observe extreme caution when using any grinder. Severe injury may occur if proper protective equipment is not used or if the equipment is not properly stored and maintained</li> <li>2. Check the tool rest for the correct distance for abrasive wheel – maximum 1/8" or 3 mm</li> <li>3. Replace the grindstone when adjustment of the rest cannot provide 1/8" (3 mm) clearance</li> <li>4. If the wheel has been abused and ground to an angle or grooved, reface the wheel with the appropriate surfacing tool</li> <li>5. Ensure proper guards are in place and ensure that safety glasses, face shields, gloves and safety boots are worn when using grinders</li> <li>6. Wear appropriate ear protection</li> <li>7. Aprons are advisable, depending on the type of job</li> <li>8. Wear respiratory protection when grinding for extended periods of time or while grinding silica producing surfaces such as concrete</li> <li>9. Each time a grinding wheel is mounted; the maximum approved speed stamped on the wheel blotter should be checked against the shaft rotation speed of the machine to ensure safe peripheral speed is not exceeded. A grinding wheel must not be operated at peripheral speed exceeding the manufacturer's recommendations.</li> <li>10. When mounting the wheels, check them for cracks and defects, ensure that the mounting flanges are clean and the mounting blotter are used. Do not over tighten the mounting nut.</li> <li>11. Before grinding, run newly mounted wheels at operating speed to check for vibrations</li> <li>12. The flanges supporting the grinding wheel should be a maximum of 1/3 the diameter of the wheel, and must fit the shaft rotating speed according to the manufacturer's recommendations</li> <li>13. Clean and service grinders according to the manufacturer's recommendations</li> <li>14. Bench grinders are designed for peripheral grinding. Do not grind on the side of the wheel</li> <li>15. Do not stand directly in front of the grinding wheel when it is first started</li> <li>16. Do not use grinders near flammable materials</li> </ol>

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