### Job Safety Analysis

#### Bench Grinder

<table>
<thead>
<tr>
<th>Title</th>
<th>Work Task</th>
<th>Hazards</th>
<th>Controls</th>
</tr>
</thead>
</table>
| **Preparing for the Job** | 1. Obtain personal protective equipment before the job | None | Personal protective equipment (PPE) consisting of:  
- Safety glasses with side shields,  
- Steel toed shoes  
- Ear plugs for hearing protection.  
- Possible gloves depending on the media  
  
  Do Not wear jewelry, gloves or loose clothing that could get caught in the equipment during operation.  
  
  Long and loose hair must be pulled back. |

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| **Equipment Pre-Check** | 1. Perform an operation check prior to using the equipment in accordance with the operator’s manual  
2. Use an abrasive wheel of an appropriate size and type. | Amputation  
Injury due to entanglement with the wheel  
Pinch/cut hazard  
Minor cuts  
Wood/metal dust allergy  
Electrical shock  
Hearing Loss | Inspect the wheel  
Know the location of the on/off switch  
Wheel guard |
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<th>Hazards</th>
<th>Controls</th>
</tr>
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| **Equipment Operation** | 1. Don PPE  
2. Test by turning on the on/off switch to on to turn the saw on and listen for a smooth startup as the cutter reaches full operating speed  
3. Brace material to be cut  
4. Never stop the grinder too quickly or thrust a piece of wood/metal/plastic against the grinding edge of the wheel after the power has been shut off  
5. Keep the stock flat on the work table and exert the proper force.  
6. Periodically examine the wheel during operation  
7. Make cuts only when the power is on and not while the grinder is coasting  
8. Turn the equipment to the off position once the cut is complete.  
9. Clean up dust prior to leaving the work area | Flying objects  
Stock caught by the wheel may be thrown back at the operator.  
Cut, abrasion, amputation  
Cut, abrasion, amputation | On/off switch  
Maintain serviceable grinding wheels  
Operator attentive to the equipment being used  
No talking while operating the equipment  
Never leave the equipment in the on position unattended even when the equipment is coasting |

| Training | Hand and Power Tools Training  
PPE course  
Operator’s Manual | Competent person |

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| Referenced Material | Department of Labor |

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