

Job Hazard Analysis

Job/Activity Name:

Grinder Operation

Start Date:

XXXX XXXX

Evaluated for continuation:

XXXX XXXX

Zone:

Bldg / Area Location(s):

Bldg IV / Fab Shop

Job Prerequisites:

- **Online General Safety Training**
- **Online Bench Grinder SOP Operation and Procedure Training**
- **In-person Bench Grinder Usage Training**
- **This Job Hazard Analysis**
- **Operations Manual**

PPE, other equipment, personal preparations:

- **Slip-resistant closed-toe footwear**
- **Clothing tightly buttoned and tucked**
- **Loose hair and jewelry secured**
- **Safety eyewear**
- **Hearing protection**
- **Step 5 only - Cut resistant gloves for material handling after machine operation is concluded**

Engineering Controls (see training operation diagram):

- **Wheel guards**
- **Eye shielding**
- **Tool material rest**

Administrative Controls:

- **See job prerequisites**
- **Ensure others are present**

Monitoring:

- **No atmospheric monitoring required.**

Job Hazard Analysis (JHA) – Grinder Operation

Step #	Step	Hazard(s)	Control or Recommended Safe Job Procedures
1.	Examine work area to ensure it is clear of obstructions.	1a. Slips, trips, falls, mobility obstructions 1b. PPE and personal precautions	1a. Clear the work area of any debris or obstructions. 1b. Beginning with this step and throughout the remaining steps: <ul style="list-style-type: none"> • Slip-resistant closed-toe footwear • Long hair must be kept secure. No jewelry, clothing or gloves that could get caught in machine. • Eye and hearing protection
2.	Perform an equipment preoperational check.	2a. Anticipate potential for entanglement 2b. Anticipate potential for injury due to improper machine operations.	2a. Never reach over spinning components. 2b. Ensure awareness of rotating parts and that guards and shields are adequate for protection.
3.	In case of malfunction or runaway operation	3. Injury due to crushing, caught in-between, laceration, and/or flying debris.	3. Deactivate machine by switching off and unplugging from wall. <ul style="list-style-type: none"> • Notify Fab Shop Manager.
4.	Grinding the material	4a. Operator entanglement 4b. Crushing injuries caused by contact with moving parts. 4c. Kickback or hand fatigue from improper tool material rest use. 4d. Eye injury from flying debris and sparks	4a. Maintain awareness of areas close to rotating parts. 4b. Keep hands from moving parts and pinch points. 4c. Securely use tool material rest. 4d. Wear safety glasses.
5.	Handling material after grinder operation	5a. Lacerations to hands 5b. Eye injury from debris	5a. Wear cut resistant gloves. Deburr material with tool and never run hands along edges. 5b. Use brush or vacuum to clean off material, not hands or blowing with mouth.