



UNC
ENVIRONMENT,
HEALTH & SAFETY

Job Safety Analysis

Safety Information for The University of North Carolina at Chapel Hill

Bench Grinder



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

	Work Task	Hazards	Controls
Equipment Operation	<ol style="list-style-type: none"> 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 	<p>Flying objects</p> <p>Stock caught by the wheel may be thrown back at the operator.</p> <p>Cut, abrasion, amputation</p> <p>Cut, abrasion, amputation</p>	<p>On/off switch</p> <p>Maintain serviceable grinding wheels</p> <p>Operator attentive to the equipment being used</p> <p>No talking while operating the equipment</p> <p>Never leave the equipment in the on position unattended even when the equipment is coasting</p>
Training	<p>Hand and Power Tools Training</p> <p>PPE course</p> <p>Operator's Manual</p>	Competent person	
Created	David Catalano		
Referenced Material	Department of Labor		
Contact Info	<p>For more information about this JSA and other JSAs, contact: <i>Department of Environment, Health and Safety</i> UNC-CH, 1120 Estes Drive Extension, Chapel Hill NC 27599 CB# 1650 (919) 962-5507 http://ehs.unc.edu</p>		