

RCI Safety Series Passport — Grinder

Student Name: _____

Certification Date: _____, 20____

What should you do before using a grinder?

A grinder can be dangerous if not used properly.

- ✓ Operate only with Mr. Ferguson's permission and after you have received proper instruction.
- ✓ Make sure you understand instructions before attempting to use any tool or machine.
- ✓ Learn the applications and limitations before use.
- ✓ Make sure the wheel housing guards are in place.
- ✓ Inspect the wheels for a hairline crack before using. **DO NOT USE A CRACKED WHEEL.**
- ✓ Keep face of the wheel evenly dressed.
- ✓ Ensure that the wheel guard covers at least one half of the grinding wheel.
- ✓ Refer to Woodworking Machines - General Safety Tips for general safety precautions

What safety procedures should you follow when using a grinder?

- ✓ Wear safety glasses or a face shield.
- ✓ Stand to one side of the wheel before starting.
- ✓ Wear hearing protection that is suitable for the level and frequency of the noise you are exposed to in the woodworking area.
- ✓ Adjustments need to be made when the grinder is unplugged & stopped. Adjust tool rests 1/8" from the wheels and slightly below center and spark or shatter guards (at the top of the wheel housing guards) 1/16" away from the wheels. Re-adjust these as the wheels wear down to a smaller diameter.
- ✓ Stand to one side of the wheel when turning on power. Allow the grinding wheel to run at full operating speed for one minute..
- ✓ Bring object into contact with the grinding wheel slowly and smoothly avoiding impact or bumping motions.
- ✓ Move the object being ground, back and forth across the face of the wheel only, as this prevents "ruts" or grooves from forming.
- ✓ Keep bystanders a safe distance away from the work area. Anyone entering the work area must wear his/her PPE.



What should you avoid when working with a grinder?

- ✓ Do not grind freehand. Always hold the object firmly against the tool rest and guide the object.
- ✓ Do not reach around and over moving blades.
- ✓ **DO NOT** use a wheel that vibrates.
- ✓ Do not apply work too quickly to a cold wheel or disk.
- ✓ Do not jam work into the wheel.
- ✓ Do not reach above or around a moving wheel.
- ✓ Do not leave grinder running unattended. Turn off power and ensure machine has stopped running before leaving the area.
- ✓ Never grind small stock. Do not attempt to grind or sharpen anything that cannot be adequately supported by the tool rest. Use clamping pliers when grinding parts that cannot be held easily by hand.
- ✓ Do not touch the ground portion of the work piece until cooled.
- ✓ Never stick an object into wheel to stop the grinder quicker. Let it stop on it's own
- ✓ Do not heavy grind on the side of the wheel.



Ensure that you follow all shop safety rules

➡ **Safety First** ⬅