1. Inspect & Adjust Grinder

✓ Ensure area around grinder is clean and well maintained.
✓ Side guard must cover the spindle, nut and flange and 75% of the abrasive wheel diameter*.
✓ Check the work rest gap – must be no greater than 1/8 inch – adjust if necessary*.
  **Note:** Replace abrasive wheel if work rest gap cannot be adjusted to less than 1/8 inch.
✓ Check the tongue guard gap – must be no greater than 1/4 inch – adjust if necessary*.
  **Note:** Replace abrasive wheel if tongue guard gap cannot be adjusted to less than 1/4 inch.
✓ Check abrasive wheel for cracks or flaws – replace if necessary*.
✓ If abrasive wheel is worn unevenly, redress using appropriate dressing tool.
✓ Verify the maximum RPM rating of the grinder does not exceed the RPM rating on each abrasive wheel.
✓ Eye shields must be clean and in position – replace if cracked or broken.
✓ Check work rest and tongue guard gap periodically during use – adjust as necessary*.
✓ Tag out grinder if a deficiency is found – do not use grinder until the deficiency has been corrected.

*Note – Unplug cord from power supply before making adjustments or removing & replacing parts.*

Before a new abrasive wheel is mounted, a visual inspection for cracks or flaws and a “Ring Test” must be performed. **Ring Test:** Place your finger through the mounting hole of the new abrasive wheel and lightly tap its face with a hammer or metallic object. A “ring” will sound from a good wheel while a “dull thud” will sound from a wheel with an internal fracture. Do not use cracked, flawed or internally fractured wheels.

2. Don required Personal Protective Equipment (PPE)

✓ Splash-Proof Eyewear or Face Shield and Safety Glasses
✓ Hearing Protection

*In addition, when applicable don:*
✓ Overalls or Apron
✓ Dust Mask
✓ Gloves – Caution: Wear snug fitting gloves to avoid snagging on abrasive wheel or wire brush

3. Switch “on” Grinder

✓ Secure loose clothing,
✓ Stand to one side and switch on grinder,
✓ Do not grind soft metals such as lead, solder or aluminum.

4. Grinding

✓ Allow grinder to reach full rpm before grinding,
✓ Position yourself to avoid overbalancing,
✓ Firmly grip object to be ground,
✓ Keep hands and fingers clear of abrasive wheels,
✓ When grinding avoid placing excessive pressure on abrasive wheels,
✓ Grind object evenly across entire abrasive wheel face,
✓ Do not grind objects on sides of grinding wheels,
✓ Materials may become hot when grinding – use gloves when necessary,

Use an Aluminum Oxide wheel to grind aluminum & other non-ferrous materials. Use a Silicone Carbide wheel to grind steel & other ferrous materials. Wheels must be “Dressed” when loading (build up of material on wheel face) occurs. “Dressing” is the process of removing bonded material from cutting grains in the face of the wheel to expose new, sharp cutting edges and provide chip clearance for the material removal process.

5. Switch off Grinder

✓ Switch off grinder when done
✓ Clean area and dispose of grinder particles

6. Other Attachments

✓ Work rest and tongue guard must be removed when a wire brush or cloth buff is installed*