

# Metal Lathes – Safe Work Procedure

**Purpose:** To provide SD 62 staff, with a list of procedures to ensure they are protected against potential hazards associated with Metal Lathes.

**Hazards:** Work involving fine metal filings, airborne dust and potential inhalation hazards inherent to Metal Working processes. Hazards include pinch, crush, inhalation, and struck by flying debris or objects.

**WARNING: DO NOT use this machine unless you have been trained in its safe use and operation. Failure to comply could result in severe injury.**

## **General Safety**

- Never start work without proper authorization & training.
- **Personal Protective Equipment (PPE):** eye protection, including face shield **and** protective glasses or goggles, hearing protection (when equipment is in use) and long pants. Hearing protection can include earmuffs or ear plugs based on the sound level.
- Tie back hair, no loose clothing and no jewelry should be worn.
- DO NOT wear gloves when operating this equipment.

## **Before METAL LATHE OPERATIONS**

- Ensure workspaces, table, and walkways are free and clear of clutter and debris.
- Make sure guards are present, installed and working.
- Locate and be aware of the operation of the ON/OFF switch or E-stop.
- Disconnect power supply before changing or adjusting cutting tools.
- Check that all materials is tightly clamped in the chuck or drive device.
- Ensure correct speed for machining process is selected.
- Remove any chuck tightening devices before starting the lathe.

## **During METAL LATHE OPERATIONS**

- Ensure that work is mounted securely in the chuck.
- During milling & cutting operations: position the cutting tool to correct angle and height for operation.
- Follow job specifications for the speed, feed and depth of cut for being turned.
- Place all tools, measuring instruments and other objects on a bench before starting the lathe.
- Ensure that all shields are in place (if equipped).
- Stop lathe before taking measurements or making adjustments of any kind.
- Do not leave machine running while unattended.
- Shut OFF the power supply to the motor and allow rotation to stop before mounting/removing accessories.

## **After METAL LATHE OPERATIONS have been completed**

- Collect all waste/debris and place in appropriate containers.
- Inspect equipment to ensure no damage has occurred, guards and other devices are in good condition and in place. Record any damage as per the Technology Education Safety Manual.
- If equipment is damaged or inoperable follow lockout procedures.