

Title: Lathe Metal

Issue Date: May 2016

Last Reviewed: May 2016

Next Review Date: May 2018

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THIS MACHINE CAN KILL YOU -DO NOT use this machine unless you have been trained in its safe use and operation and never operate without someone else present.

Description of Work: Using a Metal Lathe



Potential Hazards: High power rotating spindle with exposed moving parts can cause entanglement, impact, flying debris and electrical hazard with the potential to cause serious harm and/or even death. Exposure to heat, noise, projectiles and sharp objects.

Personal Protective Equipment (PPE) Required (Check the box for required PPE):



Eye Protection



Employ
Entanglement
Precautions



CSA Approved
Footwear



Hearing
Protection may
be required



Close fitting
protective Clothing



Risk and Hazard Prevention:

- Entanglement – No loose Clothing, No Jewellery or accessories, Long Hair must be contained
- Hot projectiles – chips – burn hazard
- Burns from hot material after/during cutting
- Cuts from sharp tools and swarf(chips)

Safe Work Procedure Checklist:

1. PRE-Operation:

- Check workspaces and walkways to ensure no slip/trip hazards are present.
- Locate and ensure you are familiar with the operation of the ON/OFF starter and E-Stop (if fitted).
- Ensure all guards are in place.
- Check that the job is clamped tight in the chuck.
- Remove all tools from the bed and slides of the machine.
- Ensure correct speed for machining process is selected.
- Remove the chuck key before starting the lathe.
- Do not try to lift chucks or face plates that are too heavy for you.
- Faulty equipment must not be used. Immediately report suspect machinery.

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2. Operation:

- Never leave the lathe running unattended.
- Before making adjustments or measurements switch off and bring the machine to a complete standstill.
- Do not attempt to slow/stop the chuck or revolving work by hand.
- Avoid letting swarf build up on the tool or job. Stop the machine and remove it.
- Always remove the chuck key from the chuck.
- Do not store tools and parts on top of the machine.

3. POST-Operation:

- Switch off the machine and reset all guards to a fully closed position.
- Leave the machine in a safe, clean and tidy state.

4. Other Potential Hazards:

- Flying objects - chuck key left in chuck
- Cutting tool injury when cleaning, filing or polishing
- Rotating machine parts - entanglement
- Metal splinters/swarf
- Eye injuries

Competent Persons (The following persons are authorised to operate, supervise and test students on the equipment/process).

Name:	Title:	Contact Details:
Chris Vandelaar	Student Shop Manager	CMLP 1301 x 80281
UMS Technicians	UMS Technicians	TEB Rm. 50 x 88836

This SOP does not necessarily cover all possible hazards associated with the machine and should be used in conjunction with other references It is designed to be used as an adjunct to teaching Safety Procedures and to act as a reminder to users prior to machine use

Date of last review:

Signature: