

**Title: Pedestal and Bench Grinder**

**Issue Date: May 2016**

**Last Reviewed: May 2016**

**Next Review Date: May 2018**

**Page Number: 1 of 2**








**DO NOT use this machine unless you have been trained in its safe use and operation.**

**Description of Work:** Using a Pedestal or Bench Grinder



**Potential Hazards:** Harsh rapidly moving abrasive with potential to remove skin. Exposed moving parts and electrical hazard with the potential to cause harm through pinching, entanglement, impact and cutting, exposure to heat, noise, projectiles, sharp objects, friction and sparks.

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

						
Do not Wear Gloves	Respirator /Dust Mask/ Ventilation	Eye Protection	Loose hair must be contained	CSA Approved Footwear	Rings Jewellery must not be worn	Protective Clothing must be close fitting
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>

**Risk and Hazard Prevention:**

- Entanglement – No loose Clothing
- Inhalation of fumes and dusts – Use respirator if needed
- Burns from hot material after/during grinding
- Ensure work is appropriate to the machine – This machine is intended only for sharpening tools. It is not intended for shaping metal work pieces – Please see “Disc and Belt Sander” for shaping.

**Safe Work Procedure Checklist:**

1. PRE-Operation:

- Always begin by setting-up your work area safely to avoid the following:
  - Trip hazard, uncomfortable working conditions, electrical hazards, crowded work spaces (other students) and other dangerous situations
- Ensure the wheel is not damaged. Look for chips, cracks or embedded metals
- Ensure tool rests are not more than 2mm away from grinding wheels - Avoid pinch points
- Ensure cooling dish has ample water in it – Cool parts often
- Ensure appropriate guarding is in place
- Identify ON/OFF switch
- Inspect General condition of working area

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**2. Operation:**

- Ensure all other students are clear of immediate work area (spark path)
- Keep fingers, hands and materials free from pinch points when machine is running
- Allow abrasive to reach top speed (when starting) before slowly moving work piece toward wheels
- Use smooth, slow fluid motions. Never make abrupt fast movements
- Increase cutting/grinding force gradually
- Use entire abrasive area when grinding to ensure even wear of grinding wheels
- Turn machine off to make adjustments. Unplug for maintenance (major cleaning or wheel changes)
- Ensure guarding is in place before re-starting grinder

**3. POST-Operation:**

- Switch off grinder before:
  - Removing waste material
  - Drying excess cooling water from any exposed metal surfaces
  - Brushing off grinding dusts
- Ensure wheel is still in good condition. If not notify the technician

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

<b>Name:</b>	<b>Title:</b>	<b>Contact Details:</b>
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:**