

Title: Angle Grinder

Issue Date: May 2016

CENTRAL OFFICE USE ONLY

Page Number: 1 of 2

Last Reviewed: May 2016

Next Review Date: May 2018

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

Description of Work: Using an Angle Grinder



Potential Hazards: Exposed moving parts and electrical hazard with the potential to cause harm through entanglement, impact and abrasion, exposure to heat, noise, projectiles, sharp objects, friction and sparks.

Important Notice: This SOP is intended as a reference guide to compliment Western Engineering's Shop Safety Training. This document by its self does not constitute shop/equipment training. Please visit OWL site: "Western Engineering Shop Training"

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



Respirator /Dust Mask/
Extraction



Eye Protection



Employ Entanglement Precautions



Approved Footwear



Hearing Protection



Protective Clothing



Risk and Hazards Prevention:

- Entanglement – No loose Clothing, No Jewellery or accessories, Long Hair must be contained
- Use extraction system or dust mask to avoid inhalation of fumes and dusts
- Burns from hot material or abrasion after/during grinding

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
- Use only in designated area. Use screens or curtains to contain hazards
- Ensure the appropriate disk is correctly in place
- Work piece - Ensure work piece is securely clamped and is free of any loose portions which could damage grinding wheel or disc
- Ensure appropriate guarding is in place on grinder
- Identify ON/OFF switch
- Inspect electrical cord

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2. Operation:

- Ensure all other students are clear of immediate work area
- Keep fingers, hands and cables free of grinding disc
- Check that the disk runs 'true' and does not wobble. Excess vibration must be identified and addressed immediately
- Do not make adjustments while wheel is running
- Un-plug grinder from wall/socket before changing the disk or making adjustments.
- Ensure guarding is in place before re-starting grinder
- Allow grinding wheel to reach working speed before applying to work piece. Increase working loads gradually. Never abruptly. Use smooth fluid motions
- Be aware of flying sparks and particulate. Aim debris away from self and other people as well as flammable materials
- Turn grinder off when not in use
- Ensure machines have been isolated from power sources before being cleaned, adjusted, maintained or repaired.
- Un-plug when not in use

3. POST-Operation:

- Ensure disk is still in good condition before putting away
- Store cord in such a way that it is not in contact with the grinding disc
- Never carry any power tool by its cord

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: