



PALM BEACH STATE COLLEGE PERSONAL PROTECTIVE EQUIPMENT (PPE) JOB HAZARD ASSESSMENT

Department: Facilities	Campus: All
Task: Operate an Angle Grinder	
Job Title(s) Performing Task: Carpenter, Maintenance Mechanic, Maintenance Worker	

Reviewed by Guy Clark, Lead Maintenance Mechanic, July 23, 2015

Task Step/Sub-Tasks	Hazard(s)	Recommended PPE/Controls
1. Check condition of the tool and the cord and plug.	Electric shock	Do not use the tool if it is in poor condition; the cord is missing insulation; or the plug is missing its grounding prong.
2. Check condition of the grinding wheel.	Impact (from cracked or broken wheel that becomes a projectile)	Visually inspect wheel for cracks and remove damaged wheel from service.
		Ensure that maximum RPM rating of abrasive wheel is compatible with the RPM rating of the grinder motor.
3. Check grinding wheel tightness.	Cuts (from inadvertent starting)	Do not plug in the grinder until inspection is completed.
4. Check that guard is in working condition and in the proper position.	Cuts	Ensure that the tool is unplugged. Wear work gloves .
	Impact (from dropping tool onto foot)	Wear work shoes with a safety toe .
5. Verify the appropriate handle location.	Impact (from dropping tool onto foot)	Wear work shoes with a safety toe .
		Change handle location based upon user.
6. Inspect trigger for damage and proper operation.	None foreseen	Remove tool from service if damaged.
7. Secure and position correctly the material being ground.	Impact (from material being propelled by the grinder)	Verify the material is secure by attempting to dislodge it with a gloved hand.
8. Plug in grinder.	Cuts/Impact (from starting of the grinder in the "On" position)	Ensure grinder is in the "Off" position before plugging it in.

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9. Operate grinder.	Impact (from projectiles created by grinding)	Wear safety glasses .
	Burns (from sparks created by grinding)	Wear work gloves, long-sleeved shirt and long trousers .
	Noise	Wear ear plugs .
	Ergonomics (back or other strain)	Change position from time to time.
	Ergonomics (possible injury to hands due to vibration from engine operation)	Wear no-slip, heavy duty work gloves .
	Chemical exposure (from inhalation of toxic or irritant fumes or particulates created by grinding)	Use localized exhaust to remove fumes and particulates.
		Wear respirator appropriate for the content of the metal and its coatings.
Electric shock	Ensure that grinding will not come into contact with electrical wiring or conduit.	
10. Unplug grinder.	Cuts/Impact (from unplugging while the tool is still in operation)	Ensure tool is in the "Off" position before unplugging.

NOTE: Basic hazard categories include – **impact** (falling/flying objects, struck by), **falls from height**, **penetration** (sharp objects piercing foot/hand, other body parts), **compression** (roll-over or pinching), **cuts**, **burns**, **chemical exposure** (inhalation, ingestion, skin contact, eye contact or injection), **heat**, **extreme cold**, **harmful dust**, **noise**, **light (optical) radiation** (welding, brazing, cutting, furnaces, etc.), **ionizing radiation**, **non-ionizing (RF energy) radiation**, **electrical shock**, **ergonomics** (includes back strain or other strain due to lifting/stretching) and **biologic**.

CERTIFICATION: I certify that I have personally performed the above Job Hazard Assessment on the date indicated below. *This document is a Certification of the Hazard Assessment required by 29 CFR 1910.132(d)(2).*

Larry L. Leskovjan	<i>Larry L. Leskovjan</i>	July 23, 2015
Printed Name	Signature	Date