

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

<b>Department:</b> Facilities	<b>Campus:</b> All
<b>Task:</b> Operate a Pressure Washer (Gasoline-Powered)	
<b>Job Title(s) Performing Task:</b> Groundskeeper, Maintenance Mechanic, Painter	

*Reviewed by Mark Pruszynski, Painter II, July 23, 2015*

Task Step/Sub-Tasks	Hazard(s)	Recommended PPE (Bolded)/Controls
1. Check fuel level; refill as necessary.	Burns (from static electricity or open flame that starts a fire)	No metal fuel containers.
		No smoking.
		Start engine at least 10 feet away from fuel source.
2. Place safety cones or safety tape as necessary to block off work area from pedestrian or vehicular traffic.	None foreseen	N/A
3. Block pressure washer wheels to prevent it from rolling.	Compression (from unit rolling over foot)	Wear <b>work shoes with a safety toe.</b>
4. Inspect pressure washer and hose(s) for condition and damage.	Impact (from high pressure water exiting through a break in the hose)	Removed damaged equipment and hoses from service and replace as necessary.
5. Connect water supply hose to pressure washer and turn water on.	None foreseen	Never start the pressure washer unless the water supply is connected and turned on.
6. Flush system with sufficient water to remove any contaminants.	None foreseen	N/A
7. Install desired nozzle/tip on the pressure washing wand.	None foreseen	N/A
8. Turn ignition on or press starter switch.	None foreseen	N/A
9. If present, pull starter cord to start engine.	Ergonomics (back/other strain from pulling starter cord)	Do stretching and warm-up exercises before starting engine.
		Pull recoil starter handle quickly, but steadily, straight back from engine in one smooth motion and allow the starter cord to rewind slowly.

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10. Perform pressure washing.	Cuts (from high pressure water or debris contacting skin)	Wear <b>cut-resistant work gloves</b> .
		Wear <b>long trousers</b> and <b>long-sleeve shirts</b> .
		Large quantities of water may enter flesh and organs through a very small hole with little or no bleeding. Seek immediate medical attention for treatment of water jet cuts/punctures.
		Never operate the equipment above the manufacturer's rated pressure maximum.
		Increase pressure slowly until required working pressure is reached.
		Never point the pressure washing wand at other personnel.
		Never lock the pressure washing wand trigger assembly in position if equipped with a lock.
		Keep hose(s) as straight as possible—do not bend or pinch them.
		Never leave equipment unattended when in operation or under pressure.
		Turn off pressure washer engine and water supply and release pressure by depressing pressure washer wand trigger before changing the nozzle/tip.
Impact (from falling due to slipping or tripping over water supply hose)	Arrange hose in a manner to minimize slip, trip and fall hazards.	
	Maintain situational awareness.	
	Wear <b>work shoes with slip-resistant soles</b> .	
Impact (from flying debris entering eyes)	Wear <b>safety glasses with side shields</b> or <b>splash goggles</b> .	

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10 (continued). Perform pressure washing.	Burns (from contacting hot engine parts)	Wear <b>work gloves</b> . Wear <b>long trousers</b> and <b>long-sleeve shirts</b> . Avoid contact with hot engine parts.
	Ergonomics (back or other strain from moving or controlling hose(s) or wand or physical effort required to maintain control of the pressure washer wand)	Do stretching and warm-up exercises before starting work. Avoid awkward positions, over-reaching and straining. Switch off with other personnel.
	Ergonomics (possible injury to hands due to vibration from pressure washing wand)	Wear no-slip, heavy duty <b>work gloves</b> .
	Noise	Wear <b>ear plugs</b> .
	Biologic (from infectious organisms entering skin as a result of pressure cuts)	Seek immediate medical attention.
	Electrical shock (from water spray contacting energized electrical equipment)	Lockout/Tagout training Ensure that any electrical equipment in the vicinity of the pressure washing activity that presents a hazard to you is de-energized, shielded or otherwise made safe.
	Chemical exposure (e.g., from chlorine used as biocide)	Wear <b>long trousers</b> and <b>long-sleeve shirts</b> . Wear <b>safety glasses</b> . Wear <b>work gloves</b> .
	11. Complete work. Turn ignition switch off.	None foreseen
12. Depress pressure washing wand trigger to release pressure. Turn off water.	None foreseen	N/A
13. Disconnect water supply hose. Wrap hose(s) and prepare equipment for storage.	Ergonomics (back or other strain from moving hose(s) or lifting)	Lifting/Back Safety training
		Do stretching and warm-up exercises before starting work.

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14. Check fuel level; refill as necessary.	Burns (from static electricity or open flame that starts a fire)	No metal fuel containers.	
		No smoking.	
		Allow engine to cool before refueling.	

**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
<b>Printed Name</b>	<b>Signature</b>	<b>Date</b>