



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

Department: Facilities, Security	Campus: All
Task: Use a Jump Starter	
Job Title(s) Performing Task: Security Officer, Vehicle Equipment Mechanic	

Reviewed by Daniel Davis, Lead Vehicle Equipment Mechanic, July 30, 2015

Task Step/Sub-Tasks	Hazard(s)	Recommended PPE (Bolded)/Controls
<p>NOTE: A jump start unit contains electrical circuitry that is not water-resistant—do not allow it to become submerged in water. It should not be operated in heavy rain, and should be kept as dry as possible, e.g., by placing it under the open vehicle hood, in order to preclude damage to either the unit or the vehicle’s electrical or computer components.</p>	N/A	N/A
<p>WARNING: Do not smoke or use cigarette lighters or matches while near vehicle batteries. Do not handle the battery while wearing vinyl clothing because static electricity sparks may be generated when vinyl clothing is rubbed.</p>	N/A	N/A
1. Turn off vehicle and all accessories.	None foreseen	N/A
2. Open vehicle hood.	Ergonomics (back strain or other strain)	Do stretching and warm-up exercises before starting work.
3. Place the jump start unit on a flat and stable surface as far away from the battery that needs to be started as the cable length will allow.	Ergonomics (back strain or other strain)	Do stretching and warm-up exercises before starting work.

Department: Facilities, Security		Campus: All
Task: Use a Jump Starter		
Job Title(s) Performing Task: Security Officer, Vehicle Equipment Mechanic		
<i>Reviewed by Daniel Davis, Lead Vehicle Equipment Mechanic, July 30, 2015</i>		
3 (continued). Ensure that the unit's power switch is in the "OFF" position.		
4. Connect the red positive (+) clamp of the unit's cables to the positive (+) terminal of the battery.	Electrical shock	NOTE: A good, solid connection between the jump starter clamps and the battery and ground connections is a must. Brushing away any corrosion and moving the clamp back and forth while connecting to the battery will help create a better connection. Wear work gloves .
	Burns (from possible ignition of hydrogen gas)	Wear safety glasses .
5. Connect the black negative (-) clamp of the unit's cables to an unpainted and non-moving part of the vehicle chassis or engine block.	Burns (from possible ignition of hydrogen gas)	Connecting the black clamp in this manner rather than connecting it to the negative (-) terminal of the battery will reduce the risk of a spark near the battery where hydrogen gas may be present.
		Never allow the cables' red and black clamps to touch each other or another common metal conductor to avoid creating a sparking/explosion hazard. Wear safety glasses .
6. Turn on the jump starter's power switch.	None foreseen	N/A
7. Turn on the vehicle ignition and crank the engine for 5 – 6 seconds or until it starts, whichever occurs first.	Electrical shock (from moving engine parts cutting cable(s))	Before starting the vehicle engine, make sure the jump starter and the cables are clear of the metal parts and other moving things.

Department: Facilities, Security	Campus: All
Task: Use a Jump Starter	
Job Title(s) Performing Task: Security Officer, Vehicle Equipment Mechanic	

Reviewed by Daniel Davis, Lead Vehicle Equipment Mechanic, July 30, 2015

7 (continued). Turn on the vehicle ignition and crank the engine for 5 – 6 seconds or until it starts, whichever occurs first.	Burns (from overheating of engine)	Do not try to start the engine for more than 5 – 6 seconds. The jump start unit is designed for short-term operation only, and damage to it or overheating may result from operating it for more than 5 – 6 seconds. Allow the unit to cool down for at least 3 minutes after each start attempt.
8. NOTE: Excessive engine cranking can damage the vehicle’s starter motor. If the engine fails to start after 3 or 4 attempts, discontinue the jump-start procedure and look for other problems that need to be corrected.		
9. Turn the jump starter’s power switch to the “OFF” position after starting the engine.	None foreseen	N/A
10. Disconnect the black negative (-) clamp from the chassis or engine block first, then the red positive (+) clamp from the battery.	Electrical shock	Wear work gloves .
11. Recharge the jump start unit after use.	None foreseen	N/A

Department: Facilities, Security	Campus: All
Task: Use a Jump Starter	
Job Title(s) Performing Task: Security Officer, Vehicle Equipment Mechanic	

Reviewed by Daniel Davis, Lead Vehicle Equipment Mechanic, July 30, 2015

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 30, 2015
Printed Name	Signature	Date