



Environmental Health & Safety

FLORIDA INTERNATIONAL UNIVERSITY

Jobs Hazard Analysis (JHA)

DATE: Feb 13 2017

TOOLS/EQUIPMENT REQUIRED

Mechanics gloves

MATERIAL REQUIRED

6 foot stepladder
Tubing cutters

JOB/ACTIVITY/TASK NAME:
Changing A 6 Gallon Hot Water Heater (8 feet off the ground in a closet)

DEPARTMENT/GROUP NAME
Facilities Management - Plumbing

BLDG/AREA LOCATION(s):
RBB Custodial closet 316

PRIORITY RANKING:

SEVERITY: 1=Imminent Danger 2=Serious 3=Minor 4=Not Applicable

PROBABILITY: A=Probable B=Reasonably Probable C=Remote
D= Extremely Remote

Severity (S) * Probability (P) = Priority Ranking (PR)

Example: An employee working at a height of 20 feet without fall protection:
S(1) * P(A) = 1A or Probable Imminent Danger

| Step | Sequence Of Steps | Potential Incidents Or Hazards | Priority Ranking | Controls In Place | Controls In Place | Controls In Place | Revised Priority Ranking with additional controls |
|------|--|-----------------------------------|------------------|-------------------|--|-------------------|--|
| | | | | Engineering | Administrative | PPE | |
| 1 | Clear boxes from room for access | 1a Strain Sprain | 3C | | Back Safety Training Ladder Safety Training | Mechanics gloves | No risk reduction recommended |
| 2 | De-energize power to hot water heater via local breaker, have electrician disconnect electrical from tank | 1a. Shock hazard | 3C | | | Mechanics gloves | 3D – Develop/Provide electrical safety training and NFPA70E Arc Flash Program/Training |
| 3 | Position ladder in closet and shut inlet water feed off and open drain valve to drain water into catch pain which drains to sink | 1a Fall | 3C | Ladder | | Mechanics gloves | 3D – Provide slip trip fall training |
| 4 | Using tubing cutters, cut inlet, outlet and drain lines as well as PSV discharge line (Copper | 1a Strain Sprain 1b Laceration | 3C | Ladder | | Mechanics gloves | No risk reduction recommended |

| | | | | | | | |
|---|--|-----------------------------|----|--------|--|------------------|--|
| | tubing) | | | | | | |
| 5 | Manually lower empty hot water heater while standing on ladder | 1a Strain Sprain 1b Fall | 2B | Ladder | | Mechanics gloves | 3C – Permanently lower hot water to ground level or purchase a small tankless unit |

I understand & will adhere to the steps, hazards & controls as described in this JHA. I understand that performing steps out of sequence may pose hazards that have not been evaluated, nor authorized. I will contact my supervisor prior to continuing work, if the scope of work changes or new hazards are introduced. I understand I have the authority and responsibility to stop work I believe to be unsafe.

| <u>Worker Name (please print)</u> | <u>Signature</u> | <u>Date</u> |
|-----------------------------------|------------------|-------------|
| _____ | _____ | _____ |
| _____ | _____ | _____ |
| _____ | _____ | _____ |
| _____ | _____ | _____ |

I have reviewed the steps, hazards & controls described in this JHA with all workers listed above and authorize them to perform the work. Workers are qualified (i.e. licensed or certified, as appropriate, & in full compliance with FIU training requirements) to perform this activity.

| | | |
|------------|-----------|-------|
| _____ | _____ | _____ |
| Supervisor | Signature | Date |

REQUIRED ONLY FOR MAINTENANCE ACTIVITIES WHERE OCCUPANTS MAY BE AFFECTED BY THE TASK - I have communicated area hazards with the supervisor or listed worker(s) for this activity and have coordinated the described activity with affected occupants. The above listed workers are released to perform described scope of work in the following area(s): _____

| | | |
|--------------------------|-----------|-------|
| _____ | _____ | _____ |
| Area or Building Manager | Signature | Date |