



UNC
ENVIRONMENT,
HEALTH & SAFETY

Job Safety Analysis

Safety Information for The University of North Carolina at Chapel Hill

JOB SAFETY ANALYSIS TOPIC:

Flushing Dental Vacuum Tanks for Brauer and Tarrson Halls



| Title | Work Task | Hazards | Controls |
|--------------------------|--|---|---|
| Preplan the work | Notify EMCS that unit will be off Gather Proper PPE for the job and inspect it (safety glasses, gloves) | Improper tools Improper PPE inspection/selection | Using improper tools or parts can lead exposure or injury Improper PPE use and inspection can lead to unnecessary hazards created by wrong PPE or faulty PPE |
| Before the job/Site prep | Don necessary PPE Ensure proper tools are in ME room (pump, wrenches) Connect vacuum hose to the tank piping | Improper Donning of PPE Trip Hazard | Improperly donning or not donning PPE can lead to an unnecessary exposure. Ensure all PPE is on correctly and has passed inspection Keep hose flat |

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|------------|---|--|---|
| Flush Tank | <p>Close isolation valves (inlet and outlet) of tank to be flushed</p> <p>Open breather valve to release the vacuum pressure</p> <p>Manually open the tank flush valves at the lower end of the tanks</p> <p>Press the washdown button for the proper tank to rinse the tank</p> <p>Turn on the drum vacuum system to remove the water from the flushed tank</p> <p>Repeat flushing as needed</p> <p>Close flushing valve at the lower end of the tank</p> <p>Close the breather valve</p> <p>Open the tank isolation valves</p> <p>Turn switches on for the vacuum pumps</p> <p>Properly mark waste for disposal and contact EHS for pick up</p> | <p>Slips, Trips, and Falls</p> <p>Potential Exposure</p> <p>Improper Collection</p> <p>Improper Storage and labeling</p> | <p>Keep an eye on the process to avoid having the contaminated water get on the floor. Make sure the hose is secure and there is a collection plan for the contaminated material</p> <p>Contact the UNC Hazardous Materials Manager (919-962-5509) to obtain the properly labelled container with date and fill out a hazardous waste pick up form found here: https://ehs.cloudapps.unc.edu/HazMat_Pickup/</p> <p>Once storage of material starts the container must be picked up within one year, even if the container is not at capacity.</p> |

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| Clean Up | Unhook hose, roll up, and take back to store properly Doff PPE Store PPE | Trip Hazards Improper Doffing Improper PPE Storage | Proper housekeeping will help keep the threat of trip hazard down from unsuspecting ME room users and storing properly will increase the life of the hose Improper doffing can lead to exposure hazards if the employee comes in contact with certain materials Improper PPE storage can lead to a shorter PPE life span or PPE that is not as effective in the future |
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| Training | Employees must have hands on training in the proper use of this piece of equipment. | Supervisor is to fill out the turn in the form to UNC-CH 'Supervisor Led Training Form' and Environment, Health and Safety for documentation of proper training | |
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| Referenced Material | | | |
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| Contact Info | For more information about this JSA and other JSAs, contact: <i>UNC-CH Department of Environment, Health and Safety</i> 1120 Estes Drive Extension, Chapel Hill NC 27599 CB# 1650 (919) 962-5507 ☎ https://ehs.unc.edu/ | |   |