



UNC
ENVIRONMENT,
HEALTH & SAFETY

Job Safety Analysis


Safety Information for The University of North Carolina at Chapel Hill

JOB SAFETY ANALYSIS TOPIC:

Removal and Replacement of Clogged Vacuum System Pipe at Dental School Chair



Title	Work Task	Hazards	Controls
Preplan the Work	Contact UNC EHS Grab necessary PPE (safety eyewear, gloves, etc) Grab necessary tools to do the job safely (Pipe cutter, channel lock pliers, ladder) Bring necessary parts in order to do pipe replacement (pipe and fittings)	Improper PPE Inspection Using incorrect or faulty tools Bringing wrong parts for job prolonging the duration of project	Ensure that PPE inspection is thorough; look for holes in gloves, brittle gloves, cracks or abrasions on any safety eyewear that could compromise vision Ensure tools are in good working order and are correct for the job Check parts sizes and lengths before starting the job to ensure job is done right
Pipe removal preparation at the chair	Remove chair bottom to access line for removal Turn off suction to the line if necessary using adjustable wrench or channel locks (leave suction on if possible to prevent any exposure) Undo hoses so pipe can be taken out	Pinch hazards from removing the chair bottom to access pipes Striking on or against hazards from removing chair bottom and turning off suction/removing lines	Keep digits away from pinch points and turn off air using channel lock pliers to do the job

<p>Removing and replacing the pipe</p> 	<p>On the floor level below the chair, cut pipe section out using proper pipe cutter (No sawzall to help keep vibrations down on pipe when cutting)</p> <p>Have parts ready and reconnect lines with new pipe</p> <p>Reconnect all hoses and turn suction back on</p> <p>Place cover back on the base of the chair</p>	<p>Possible Exposure Hazards - Mercury Inhalation or Absorption</p> <p>Improper storage or disposal of hazardous waste</p> <p>Slips, Trips, and Falls</p>	<p>Keep PPE on during entire process</p> <p>Use proper storage container and disposal procedures</p> <p>Use proper ladder safety methods</p>

Title	Work Task	Hazards	Controls
<p>Disposal/Clean Up</p>	<p>Bag any contaminated material and put in pre-marked hazardous waste container (including PPE)</p> <p>Take necessary steps to clean tools</p>	<p>Possible Exposure Hazards- Mercury Inhalation or Absorption</p> <p>Improper Storage or disposal of hazardous waste</p>	<p>Keep PPE on during the cleaning, storage, and disposal process</p> <p>The container should be obtained before the job or continue to be used from a previous job at the same location. Once the preapproved container is full then the facilities employee will have to fill out a hazardous waste pick-up form. Once storage of material starts the container must be picked up within one year, even if the container is not at capacity</p>

Training	Hazard Communication Training (specifically for mercury)	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	
Created By	Cory Kirkland, Facilities Safety Officer Doug Horner, Building Services Plumbing Shop Supervisor		
Referenced Material	Notes taken from job during task		
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 ☎ http://ehs.unc.edu		