



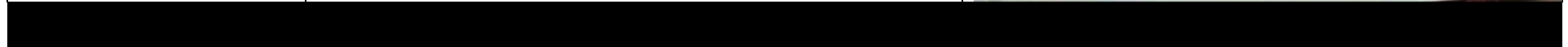
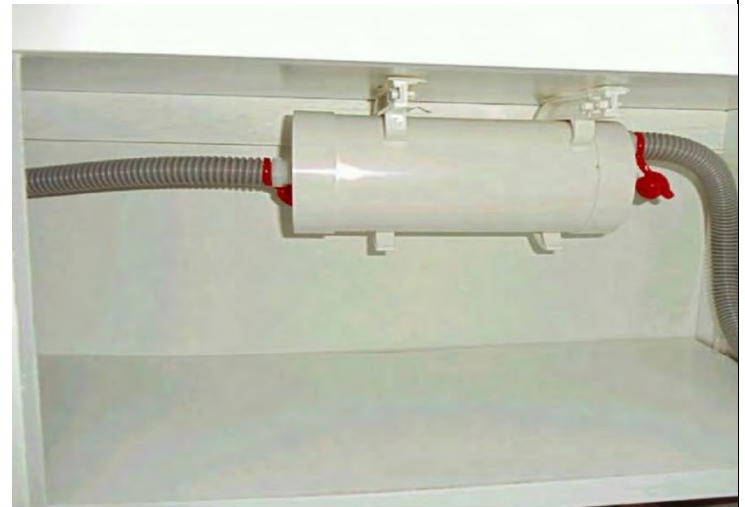
UNC
ENVIRONMENT,
HEALTH & SAFETY

Job Safety Analysis

Safety Information for The University of North Carolina at Chapel Hill


JOB SAFETY ANALYSIS TOPIC:


DD2011 Chairside Amalgam Separator
Change Out




Title	Work Task	Hazards	Controls
Preplan the Work	<p>Ensure container is ready for change (separator is full and there is a decrease in suction)</p> <p>Obtain and inspect necessary PPE (Latex/Nitrile Gloves) to confirm it is safe to use. Wear protective eyewear and clothing if there is a splash hazard.</p> <p>Obtain the tools and parts needed for packing and get labeled hazardous waste container</p>	<p>Improper PPE Inspection</p> <p>Leaking Containers</p>	<p>Take time to make sure PPE is safe (no punctures in the gloves, latex or nitrile brittle due to age or other factors)</p> <p>Contact Hazardous Materials Manager at 919-962-5509 to obtain the properly labeled container.</p>



<p>New Container Prep and System Check</p>	<p>Remove new container from plastic sleeve and remove red plugs</p> <p>Dispose of red plugs and sleeves</p>	<p>Improper plug removal could result in the systems inability to work effectively</p>	<p>Double check the container to ensure the plugs are removed and the container is ready for the desired application</p>
<p>Changing the Container: Removal of Old Container</p>	<p>Don PPE</p> <p>Keep the vacuum system running and perform the following steps:</p> <p>1 – Place used amalgam separator (still connected to the vacuum lines) in a tray to collect any spilled wastewater.</p>  <p>2 – Angle the inflow side of the separator at approximately 45 degrees and pull off inflow vacuum hose. Keep vacuum lines inside tray.</p> <p>3 - Place red cap on the inflow hose barb of the separator.</p>	<p>Possible Exposure Hazards – Mercury absorption through skin</p> <p>Spill Hazard from dropping the container before it is sealed</p>	<p>Keep PPE on during the whole procedure</p> <p>Ensure the caps are firmly in place to avoid spilling the contents of the separator. Keep separators and hoses in tray to prevent spills.</p>

	 <p>4 - Angle the outflow side at approximately 45 degrees and repeat process.</p>		
<p>Changing the Container: Installing the New Container</p>	<p>Place vacuum hoses on the appropriate hose barb fittings of the new separator.</p> <p>Verify vacuum level is adequate after installation (up to 7 inches of Hg). Record vacuum level in a logbook.</p>	<p>Possible Exposure Hazards – Mercury absorption through skin</p>	<p>Wear proper PPE to prevent unnecessary exposure</p>

Title	Work Task	Hazards	Controls
<p>Hazardous Waste Handling and Storage</p>	<p>Place used separator in hazardous waste container provided by EHS, close lid.</p> <p>Place closed container in area under the control of waste generator, e.g. locked room.</p>	<p>Improper storage or handling of hazardous wastes can result in injury to workers or pedestrians and fines from the State.</p>	<p>Contact the UNC Hazardous Materials Manager (919-962-5509) to obtain the properly labeled container with date and fill out a hazardous waste pick up form found here: https://itsapps.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>
<p>Training</p>	<p>Employees must have hands on training in the proper use of this piece of equipment.</p>	<p>Supervisor is to fill out the Supervisor Led Training Form and send to Environment, Health and Safety for documentation of proper training.</p>	

Created By	Cory Kirkland, Facilities Safety Officer Updated by Kim Haley, June 2022
Referenced Material	DD2011 Chairside Amalgam Separator Manual
Contact Info	<p>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</p> <div style="display: flex; align-items: center; justify-content: center;">  <div style="text-align: center;"> <p style="font-size: 2em; margin: 0;">UNC</p> <p style="margin: 0;">ENVIRONMENT, HEALTH & SAFETY</p> </div> </div>