LSA Reference No.: CIET004 Created By: Alain Miatudila, Sr. Date Created: July 08, 2010



Approved By: Robert H. Swan, Jr.

Approval Date: 6 August 2010

Department of Engineering Technology

OPERATING A TABLE MOUNTED CONCRETE SAW

Location: Smith 133

<u>Required Training:</u> A table mounted concrete saw is designed and intended for use by properly trained and experienced operators. If you are not familiar with the proper and safe operation of this apparatus, do not use until proper training and knowledge have been obtained.

Required Personal

<u>Protective Equipment (PPE):</u> Safety glasses, dusk mask in dusty work conditions, leather gloves if blades have to be touched, face shield in addition to safety glasses if material chips severely. <u>Reference Materials:</u> Manufacturer's safety rules and operating instructions

Рнотоѕ	Task	Hazards	Controls
CSOOM	Remove all jewelry. Wrap long hair in net. Ensure clothing is sturdy and snug. Loose clothing, gloves, neckties, rings, bracelets, or other jewelry may get caught in moving parts.	Caught in saw	 Do not wear any jewelry that may get caught in the blade or moving parts. Do not wear gloves when operating the concrete saw. Loose clothing may get caught in moving parts.
	Wear clear safety glasses with side shields and if necessary use a dust mask and leather gloves (only if you will be handling saw blade).	Flying debris and dust particles	 Students are required to provide their own safety glasses. See laboratory instructor or laboratory manager if you do not have safety glasses before proceeding to use equipment.
	Inspect safety glasses for cracks, scratches or other damage. Ensure the ANSI standard Z87.1 is stamped into the side of glasses. If necessary inspect dust mask or face mask.	Flying debris and dust particles	If defects are found report this to your laboratory instructor before using.
	Put on PPE	Flying debris and dust particles	 Always wear safety glasses. Use a dust mask in dusty work conditions. Wear leather gloves only if you will be handling saw blade. Do not wear gloves during operation of saw.
	Visually inspect the electrical power cord.	Electrical shock	If the electrical cord is damaged or worn the electrical cord should be unplugged and tagged "Out of Service-Do Not Use".

File Name: CIET004 Page 1 of 3 Revision No.: 1
Revision By: Revision Date: August 2010

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			This should be reported to the laboratory manager immediately.
			Electrical cord replacement should only be conducted by a factory outborized technician
_			conducted by a factory authorized technician.
	Ensure the electrical cord is connected to electrical outlet.	Electrical shock	Caution: Always remember to disconnect the electrical power cord before changing blades.
:	Inspect work area, walk around saw area looking for debris and ensure adequate lighting.	Slips, trips & falls	Remove any debris that could possible cause an injury. Keep work space around saw free from scraps, sawdust, metal dust and oil or grease.
	Visually inspect saw blade. If the blade must be rotated by hand, please disconnect electrical cord and wear leather gloves. Always check to ensure blade is tight.	Struck by, cut, injury	 When setting up to work, check the saw blade for missing teeth and cracks. Make sure the blade is properly mounted and rated for the revolution per minutes (RPM). Keep the saw blade clean and sharp. Ensure the electrical cord has been disconnected from electrical outlet during this process. Reconnect once complete.
	Fill water tray with water	Cut, blade stall, injury	 Ensure that the water tray is filled with water to the proper height. Inspect water pump for proper operation and lubrication of blade.
	Visually inspect any other adjustable parts.	Cut, injury	 Insure moving table with blade guide are properly adjusted and tightened prior to operating saw.
	Place the material to be cut firmly on table. Be certain that hand tools and loose materials are removed from the saw table. Ensure that all clamps and locking handles are properly tightened.	Strain, Struck by	Use the proper lifting techniques, ask for assistance or obtain a mechanical lifting device for large or heavy materials.
	Operating concrete saw	Struck by flying debris, laceration, Injury	 Devote your individual attention to the work being performed. Keep the blade guard & guide only ¼ "above the material to be cut.
		Twisting	Avoid awkward work positions; they could result in slips which may cause contact with the saw blade.
	Turn the saw on by switching the button to the "ON" position.	Cut	 Allow the saw to reach full speed before starting a cut. Guards should be in place and used at all times. Make sure that the water pump is properly operating and the blade is constantly being wetted while rotating.
	Proceed to cut material by pushing material forward through blade.	Cut, struck by, strain, kickback	 Ensure that material is held firmly against the guide fence and table before starting a cut. Keep a firm grip and slowly control the saw through the cut.

File Name: CIET004 Revision By: Approved By: Robert H. Swan, Jr. Approval Date: 6 August 2010 LSA Reference No.: CIET004 Created By: Alain Miatudila, Sr. Date Created: July 08, 2010

Turn off concrete saw by switching the button to "OFF" position	Cut	 Support long pieces of material. Always stand with your face and body directly in front of the saw blade. Always keep your fingers and hands away from the path of the blade. Use a "V" block when cutting cylindrical samples. Always turn the power off and wait to the blade stops.
Remove cut material	Cut	 After the power is turned off, wait until the blade stops before removing the stock. Never stop the blade by allowing it to cut into any material.
Clean work area and return all PPE to clean, dry storage area.	Injury	To ensure adequate housekeeping measures to prevent accidents.

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For more information about this LSA, contact the *Department of Engineering Technology* at UNC Charlotte (704) 687-2305 Please visit our website at: http://www.et.uncc.edu\

The development of Laboratory Safety Analyses is a very effective means of helping reduce incidents, accidents, and injuries in the workplace. It is an excellent tool to use for training purposes and can also be used to investigate "near misses" and accidents.

File Name: CIET004 Page 3 of 3 Revision No.: 1
Revision By: Revision Date: August 2010