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Picture of equipment:	Task:	Hilti TE-3000 ARV Jackhammer
	DEPARTMENT	CSUDH Campus – Trades
	JOB TITLE(S):	Multiple trade positions depending upon task
	ANALYZED BY:	Dawn Tabua
	DATE:	7/12/2024

REQUIRED PPE AND CLOTHING:

Non-skid work Boots 	Gloves 	Hearing Protection 	Safety Glasses 	Safety Vest 	Mask/Face Protection 
Hard hat 	Long Sleeve Shirt 	Long Pants 			

REQUIRED TRAININGS: Manager or lead shall review the JSA with the employee and conduct one-on-one training for how to operate equipment. A review of the hazards of respirable crystalline silica will be included.

GENERAL HAZARD WARNINGS

Silica Warning: Using the jackhammer on cement can create respirable crystalline silica dust, causing exposure to employees. Proposition 65 warning: This dust is known to the State of California to potentially cause lung disease which can lead to cancer, birth defects, or other reproductive harm. Avoid inhaling dust generated from cement products or use a dust mask or other safeguards for personal protection. Use the engineering controls listed in the procedure below to prevent exposure. See the user’s manual for more information.

No sanding, grinding, cutting, or jackhammering can be performed at CSUDH without the approval of the Environmental Health and Safety Department (EHS).

STEPS TO USING THE EQUIPMENT

STEP	HAZARDS	CONTROLS
Don all required PPE before touching the equipment	Preventative step	Follow the guide list ensure proper PPE is used.
Inspect the equipment for damage, dull attachments, missing parts, and missing guards	Preventative step	Tag the equipment with an <i>Accident Prevention Tag</i> if damaged. Do not use until equipment is fully functional and in good repair.

Inspect the work area to ensure that there are no signs of: clutter, dust, water or other liquids, gases, electrical or plumbing lines or other grounded surfaces	Electrical shock Tripping hazard Respiratory exposure to gasses	Administrative control. Jackhammer work is prohibited without a thorough hazard review of the designated surface or area.
Corden off or place cones around work area	Bystanders could cause a distraction or get hurt by flying concrete	Administrative control. Coordination is required when areas are highly populated, block access, or when work is disruptive to campus activities
Ensure that the worksite is well-ventilated and cordoned off before beginning work	Respirable crystalline silica and other hazardous dust exposure	Prevention of airborne dusts exposure to drift in populated areas
Don all listed PPE and any other PPE determined by EHS to be necessary	Respirable crystalline silica and other hazardous dust exposure	Some operations may require higher levels of respiratory protection than a dust mask.
Lift jackhammer from the carrying dolly and lay on the ground or a flat surface	Muscle strain	Two people are required for this set-up step
Add the product grease to the chisel or other attachment and insert it into the chuck. Clamp down the safety latch to secure it. Ensure that the yellow warning ring is not visible.	Jackhammer may malfunction and dislodge the attachment causing struck-by injuries or tripping hazards	Two people are required for this set-up step. Install attachments according to manufacturer's safety requirements
Plug the extension cord first into the jackhammer, then to the extension cord, then into the wall.	Electrical shock	Follow the steps in the correct order to prevent a live wire.
Place the jackhammer in the upright position and press the on/off switch.	Musculoskeletal strain	Two people are required for this set-up step.
Maintain the tool in the upright position; do not lean the tool at an angle	Loss of control and balance Danger of jarring and flying debris	Place the chisel closer to surface. Re-evaluate awkward surfaces and postures before continuing work
Hold and carry the tool from the anti-vibration handles only	Vibration disorders	Use the anti-vibration handles according to their purpose
Ensure that an approved industrial vacuum cleaner with an officially approved protection classification is used to collect dust	Respirable crystalline silica exposure	Follow all procedures outlined in the Silica Dust Exposure Control Plan for all concrete work
Allow the tool to do the work – do not bear down or attempt to force more pressure	Musculoskeletal strains of the back, legs, and shoulders	Re-evaluate surfaces that may require heavier equipment; take breaks if muscles fatigue
When work is complete, two workers shall lay the tool flat onto a non-flammable surface	Musculoskeletal strains Fire/explosion	This step requires two people. The metal on the attachment can reach temperatures that cause sparks and must not be placed near flammable materials.
Unplug the extension cord from the wall, then from the power cord, then the tool	Electric shock	Follow the steps in the correct order to prevent a live wire.
The attachment may be hot. After waiting until all parts are cool, lift the safety latch and remove the attachment from the chuck.	Musculoskeletal strains Burns to hands Fine debris on hands	This step requires two people. Wait until the attachment has adequately cooled before removing. Continue to wear work gloves until tool is put away
Place the tool back in the carrying dolly. Wipe the tool and the attachments with a clean cloth	Musculoskeletal strains	This step requires two people.