

Job Safety Analysis

Safety Information for The University of North Carolina at Chapel Hill

All UNC Shops

JOB SAFETY ANALYSIS TOPIC:

Portable Air Compressor



Title	Work Task	Hazards	Controls
Pre-Operation and Preparing for the Job	 Pre-plan the work and assess the work area. Assess the equipment for damaged parts Select the appropriate PPE needed to perform the job task. 	None	 Administrative If equipment is damaged or broken, replace or have equipment repaired PPE Gloves Safety goggles
Site Preparation	 4. Place tank in a well-ventilated area preferably 20 ft from work area 5. Mark off area where work will be done 6. If device uses multiple hoses use colored tags or multicolored hoses to keep hoses from tangling 	Chemical (toxic)Slips, trips, falls	 Engineering Ensure area is well ventilated Administrative Keep alert of all hoses when walking throughout area
Using the Compressor	 Turn the power switch to on Wait for compressor pump to fill air tank Connect any hoses or tools Prepare for tank to re-pressurize periodically throughout use 	 Explosion (over pressurization) Struck by Noise 	 Administrative If spraying compressed air, ensure regulator does not exceed 30 psi between uses If using for a pneumonic device only use recommend PSI for each device Do not touch moving parts PPE Same as above Hearing protection may be needed depending on devices used with compressor and proximity of compressor to work area
Clean up	 Turn off power switch Disconnect any hoses or tools Bleed air tank Unscrew valve at bottom of tank and allow remaining pressure to force out 	Struck byNoise	Administrative Regularly have equipment serviced and hydrostatically tested PPE Same as above

	any remaining liquid 15. Store tank indoors in a cool dry place with valves open		
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Training	Employees must receive training on this JSA, Hand and Power tools, and PPE Some trainings can be found on EHS website at https://ehs.unc.edu/training/self-study/	Supervisor is responsible for ensuring the employee reviews the JSA and any EHS guidelines.				
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Created	Taylor Moore, Industrial Hygienist, February 21, 2020					
Referenced Material	EHS Website; UCLA job safety analysis - USING A PORTABLE AIR COMPRESSOR					
Contact Info	For more information about this JSA and other JSAs, contain Department of Environment, Health and Safety UNC-CH, 1120 Estes Drive Extension, Chapel Hill NC 275 (919) 962-5507 https://ehs.unc.edu/		UNC ENVIRONMENT, HEALTH & SAFETY			