


UC SANTA BARBARA Environmental Health & Safety Design, Facilities & Safety Services		Procedure No.: SS-MHA-AC
Title: Shop Equipment Hazard Analysis & Management Form		Authorized/Approved By: John M. Seaman, <i>EHS Industrial Safety Manager</i>
Issue Date: 05/07/2013	Review Date: 10/05/2021	Page Number: 1 of 4

1. Hazard Management Details - General		
Shop/Equipment Item: AIR COMPRESSOR (Portable)	Make/Model No.:	Serial No.:
Department:	Work Location:	
Person(s) Conducting Hazard Analysis: JOHN M. SEAMAN <i>EHS Industrial Safety Manager</i>		Date Conducted: <i>May 1, 2013</i>
Equipment Photo:	Description of Use:	Summary of Key Risks: (refer to appropriate subsections)
	<p>An air compressor takes in air at atmospheric pressure and compresses it to a higher pressure.</p> <p>Common uses for air compressors is to supply high-pressure air for conveying, paint spraying, tire inflating, cleaning, pneumatic tools etc.</p>	<ul style="list-style-type: none"> • Noise • Eye Injury • Ergonomics • Hand Injury • Pressurized Content • Electrical Shock

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2. Documentation:

Relevant Legislation/Standards	Y / N	Comments:
a. Is equipment required to be registered?	Y <input type="checkbox"/> N <input checked="" type="checkbox"/>	
b. Is a user license/Certification required?	Y <input type="checkbox"/> N <input checked="" type="checkbox"/>	
c. Key Reference Materials Required:	AS 4343-2005 Pressure equipment - Hazard levels AS/NZS 3760 In service safety inspection and testing of electrical equipment	
Equipment Documentation	Y / N	Comments:
a. Are operator's manuals accessible?	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
b. Is this a restricted use item?	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
c. Does this equipment require safe use document(s)/test?	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	

3. Personal Protective Equipment (PPE) Required (Check the box for required PPE)

 Gloves	 Face Masks	 Eye Protection	 Face Shield	 Hearing Protection	 Safety Footwear	 Protective Clothing	 Welding Mask
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>

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4. Hazard Analysis

TASK	HAZARD	CAUSE	PREVENTIVE MEASURE
a. Routine Operation	Noise	Equipment Operation	Use hearing protection
	Eye Injury	Blowing debris	Use safety glasses w/side shields or goggles
	Ergonomics	Moving or handling the air compressor may present a manual handling risk.	Use appropriate material handling techniques and/or devices when moving compressor
b. Routine Maintenance/Repair	Hand Injury	Residual air pressures, sharp edges	Gloves
	Eye Injury	Residual air pressure	Goggles, safety glasses with side shields
	Electric Shock	Improper operation and maintenance	Manufacturer's instructions strictly followed, lockout/tag-out procedures initiated prior to start of maintenance
	Noise	Equipment Operation	Use hearing protection
c. Shutdown and Isolate Unit	Unit Activation during repair	Auto start and/or human error	Use established Lockout/Tagout procedures
	Noise	Equipment Operation	Use Hearing Protection

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Equipment Procedures/ Requirements
<ol style="list-style-type: none"> 1. Operate equipment in strict accordance with Manufacturer's instructions. 2. Only authorized users can operate equipment. 3. Hearing Protection must be worn upon entering compressor area. 4. Report any observed defect or safety hazard to your supervisor immediately. 5. Never use compressed air to clean your body or clothes. 6. If using compressed air to blow debris, use only approved nozzle (30 psi maximum cutoff) and effective chip guarding/PPE will be used. 7. Where any object handled would possibly cause injury to feet if dropped, safety shoes will be worn. 8. Where any object handled could possibly cause cuts, punctures or abrasions to hands, appropriate gloves will be worn. (<i>Exception: where rotating machinery presents a greater hazard of entangling gloves, they are optional with a written justification</i>). 9. Keep hands, hair and loose clothing clear of all moving parts.