

Job Hazard Analysis

JHA Name: Hydraulic Press (Hand Operated)



Assessment Date: 01-03-14

Revision Date: 04-05-17

Building or Location: North Mankato & Faribault Campus

Department or Program: Technical Programs

Description of Individual Tasks or Assignments: Using Hydraulic Presses to Cut, Form, and/or Assemble Metal or Materials by Means of Tools/Dies Attached to or Operated by Plungers/Slides)

Tools, Equipment, or Machinery Used when Performing Task: Hydraulic Press (e.g., Hand Operated)

Hazard Type(s) Associated with Task or Assignment:		Check for Exposure:	Specific Hazard Exposure:	Check if Exposure Recommends or Requires a Style of PPE?
1	Impact <u>Example:</u> Person(s) can strike an object, or be struck by a moving or flying/falling object (e.g., fragments, chips, particles, sand, dirt/debris).	X	Potential exposure to flying fragments, particles, debris and other ejection hazards generated from hydraulic press operations (e.g., injuries to eyes, head, torso, and upper extremities)	X
2	Penetration or Cut <u>Example:</u> Person(s) can strike an object, be struck by an object, or fall upon an object or tool that would cut or otherwise break the skin.	X	Potential exposure to cuts and abrasions when handling metal pieces with rough or sharp edges (e.g., hand and finger injuries).	X
3	Crush or Pinch <u>Example:</u> An object(s) or equipment/machine may crush or pinch a body or body part	X	Potential exposure to crushing and pinching hazards from dropping metal pieces and fixtures (e.g., injuries to feet)	X
4	Chemical or Harmful Dust <u>Example:</u> Exposure to chemicals (i.e., hazardous substances and harmful physical agents), infectious agents from spills, splashing, physical contact, and/ or exposure to dusts, vapors, fumes, or gases that could cause illness, irritation, burns, asphyxiation, breathing/vision difficulty, sensitization, infection, or other toxic health effects (i.e., acute or chronic). Note: "May also have or create ignition potential."			
5	Heat <u>Example:</u> Exposure to radiant heat sources, sparks, and splashes or spills of hot material			
6	Light (optical) Radiation <u>Example:</u> Exposure to strong light sources, glare, or intense light exposure which is a byproduct or a process. Note: "This category may also include hazards presented from lack of light (e.g., working in dark spaces/areas)."			
7	Electrical Contact <u>Example:</u> Exposure, contact, or proximity to live or potentially live electrical objects.			
8	Ergonomic/ Human Factors <u>Example:</u> Working in cramped spaces, repetitive movements, awkward postures, vibration, heavy lifting, etc... Note: "This category may also include unique hazards presented from tasks that require demanding or challenging degrees of mental and/or physical effort to be exerted by an individual. See <i>Physical Effort Definition/Examples</i> category for further explanation of physical effort."	X	Potential exposure to repetitive movements, lifting light to moderately heavy loads, and bending/twisting (when moving metal pieces) (e.g., Muscular Skeletal Disorders)	
9	Environmental <u>Example:</u> Exposure to noisy environments, hot or cold work environments, poor weather conditions, working at a height, and any other conditions in the workplace that could cause danger, discomfort, and/or negative health effects.			

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Personal Protective Equipment Requirements:	
Eyes & Face:	Safety Glasses with Side Shields or Goggles (Required when operating Hydraulic Press)
Head & Ears:	
Whole Body:	
Feet:	Safety Shoes (Required when operating Hydraulic Press)
Hands:	Leather Gloves (Required when handling metal pieces with rough or sharp edges)
Respiratory:	
Other:	

Other Control Measures or Requirements (Engineering & Administrative Controls):

#1) Impact Hazards: Before operating hydraulic press ensure dies and other accessories are positioned and secured correctly. Barrier guarding must be maintained on all hydraulic presses when there is a possibility of materials being ejected from the machine. It is recommended in most hydraulic press operations that the operator stand to the side of the machine; consult your supervisor if you have questions based on the task. #8) Ergonomic Hazards: Personnel should receive Ergonomics training (including warning signs and conditions of ergonomic/human factors hazards). Make sure your grip and footing are secure when using hydraulic presses to prevent strains and slips. Miscellaneous Considerations: Operators of tools, equipment, and machinery should read and follow all Manufactures' recommendations/requirements (e.g., inspections, servicing/maintenance, safe usage, etc...). Any tools, equipment, or machinery found damaged, defective, or otherwise unsafe should immediately be removed from service and not used until repaired or replaced. Personnel should always consult their Supervisors on the selection and use of PPE for the tasks being performed.

Physical Effort Definition/Examples

1.) Physical Mobility- Movement from place to place on the job, considering distance and speed 2.) Physical Agility- ability to maneuver body while in place or in static position 3.) Physical Strength (Light to Moderate)- Ability to handle routine office materials and tools 4.) Physical Strength (Moderate to Heavy)- Ability to handle 50lbs+ objects, considering frequency 5.) Dexterity- skill and ability in using hands, fingers, and feet 6.) Physical Balance- ability to maintain balance and physical control 7.) Coordination- harmonious functioning of body parts (e.g., eye/hand, hand/foot, etc...) 8.) Endurance- ability to sustain a prolonged stressful effort or activity with limited opportunity to rest

Note: "This JHA provides only the minimum PPE/safety requirements necessary to safely complete the task or assignment, and the JHA only covers the hazards or exposures that are most likely to be encountered. Nothing within this JHA bars or restricts personnel from requesting higher degrees of PPE or control to mitigate workplace hazards. In addition, South Central College personnel (e.g., employees and students) are required to complete any applicable safety or on-the-job trainings required prior to performing their positions or participating in their programs of study. Finally, South Central College personnel should consult their supervisors/instructors, the college's written safety programs/policies, and/or the Security & Safety Director whenever they have questions or concerns."

Certification: This document certifies a hazard assessment was conducted meeting the provisions specified under 29 CFR 1910.132 (d) and South Central College's related safety programs and policies.

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Date: 04-05-17