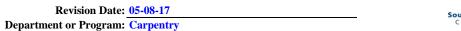
Job Hazard Analysis

JHA Name: **Miter Saw** Assessment Date: 08-19-13 Revision Date: 05-08-17





Description of Individual Tasks or Assignments:

Building or Location: Faribault Campus

Tools, Equipment, or Machinery **Used when Performing Task:**

| | | 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 | Example: 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 and debris generated from cutting (e.g., injuries to eyes) | X |
| 2 | Penetration or Cut | Example: 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. | | Potential exposure to bladed/cutting equipment (e.g., injuries to hands, arms), potential exposure to wood slivers/splinters (e.g., injuries to fingers, hands) | X |
| 3 | Crush or Pinch | Example: An object(s) or equipment/machine may crush or pinch a body or body part | X | Potential exposure to crushing and pinching hazard from dropping lumber (e.g., injuries to feet) | X |
| 4 | Chemical or Harmful Dust | Example: 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." | | Potential exposure to nuisance dusts (e.g., respiratory irritation/discomfort) | X |
| 5 | Heat | Example: Exposure to radiant heat sources, sparks, and splashes or spills of hot material | | | |
| 6 | Light (optical) Radiation | Example: 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 | Example: Exposure, contact, or proximity to live or potentially live electrical objects. | | | |
| 8 | Ergonomic/ Human Factors | Example: 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." | V | Potential exposure to source of vibration (miter saw) (e.g., injuries to hands, arms), potential exposure to repetitive movements, lifting light to moderately heavy loads, and bending/twisting (when moving lumber) (e.g., Muscular Skeletal Disorders) | X |
| 9 | Environmental | Example: 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. | X | Potential exposure to loud/prolonged noise (miter saw) | X |

Job Hazard Analysis

JHA Name: **Miter Saw**

| Assessment Date: Building or Location: | | ampus | Revision Date: 05-08-17 Department or Program: Carpentry | | | | | | |
|--|---|---|--|-----------|--|--|--|--|--|
| Description of Individ | lual Tasks or Assignments: | Cutting & Trimming Lumber | Tools, Equipment, or Machinery Used when Performing Task: | Miter Saw | | | | | |
| ersonal Protective Equipment Requirements: | | | | | | | | | |
| Eyes & Face: | Safety Glasses with Side Shields or Goggles (Required when operating miter saw) | | | | | | | | |
| Head & Ears: | Hearing Prote | earing Protection Devices (Required when operating miter saw) | | | | | | | |
| Whole Body: | | | | | | | | | |
| Feet: | Safety Shoes (Required when handling lumber) | | | | | | | | |
| Hands: | Anti-Vibration Gloves (Optional/Available when operating miter saw), Leather Gloves (Required when handling lumber with rough or sharp edges) | | | | | | | | |
| Respiratory: | N95 Particulate Masks (Optional/ Available not required) | | | | | | | | |
| | | | | | | | | | |

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

"Note: Keep Loose Clothing Away From Moving Saw Blades"

#2) Penetration or Cut Hazards: Blades are guarded to prevent operator contact. Pressure sensitive deadman switches are located in hand controls of miter saws. Maintain a 6" margin between all body parts and the saw's blade, and never stand in line of the saw blade when cutting. Always place the work piece securely on the table and against the fence when cutting, and use clamps (to secure short lumber pieces in place) to keep hands from danger. Never hold a work piece in a manner that causes your arms to cross. Support long boards or work pieces at the same height as the saw's table to prevent binding and kickback. When starting the saw; allow the blade to reach full RPM before cutting, start all cuts gently, and do not force the blade or apply excessive pressure. Once the saw's blade has cut through the material; continue to hold the saw down, release the trigger switch, and let the blade stop rotating before returning the blade to it's starting position. Never remove lumber or scrap materials from the saw's table while the blade is rotating. #4) Chemical or Harmful Dust Hazards: Particulate masks available upon request for personnel experiencing respiratory discomfort from dusts generated. #8) Ergonomic Hazards: Personnel should receive Ergonomics training (including warning signs and conditions of ergonomic/human factors hazards). Maintain a firm grip on the saw. Miter saw transfer vibrations can be reduced/minimized by regular preventive maintenance of the equipment (keeps equipment running smoothly). "NOTE: Miter saws are only operated for very short periods of times in most College environments in comparison to other General Industry, and/or Construction applications." Make sure your grip and footing are secure when using miter saws to prevent strains and slips. Make sure miter saws are level and securely resting/positioned on the work surface before using. Keep all miter saw blades sharp by replacing dull or damaged blades (dull blades can cause personnel to use more force to complete tasks, which can increase chances of slipping, breaking, and kickback). Support (e.g., with saw horses, workbenches, etc...) large work pieces or lumber being cut. #9) Environmental Hazards: Personnel should receive Hearing Conservation training (e.g., regarding noise hazards), and be included in the Hearing Conservation Program when potentially exposed to a TWA of 85dB. Miscellaneous Considerations: Always lock miter saws in the down position when transporting. Always disconnect power before making adjustments or changing accessories on saws. Remove scraps and any foreign items from the saw before operating. Personnel should make sure to only use blades with the correct size and shape arbor holes for their saw. 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

Other:

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.

| Name: | Al | K | lue | ve |
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Date: 05-08-17