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ESTABLISHED 1916

<b>Job Hazard Analysis</b>		<b>JHA # 23</b>
<b>Job/Task Title: Use of Powered Tools and Equipment - Including Hand Tools</b>		
<b>Safe Job Procedure:</b>		<b>Revised 1/2024</b>
<p>This JHA is for the safe and successful use of powered tools (both corded and cordless), powered equipment, and hand tools. Emphasis is placed on utilizing cordless tools (when feasible), proper GFCI protection, disengaging power when changing bits and blades, and protection against silica exposure.</p>		
<p><b>Required PPE: Hard Hat, Safety Glasses, Hi-Vis Vest, Cut-4 Gloves, Cut Resistant Sleeves (framing/cutting), Knee pads (layout), Hearing Protection, and Work Boots</b></p>		
<p><b>Review JHA's 24,26,27,28,30,31,34: MEWP and Aerial Lift, Material Handling, Powder Actuated Tools, Scaffold, Covering/Cleanup, LOTO, Overhead Work</b></p>		
<b>Step #1 Work Area Inspection</b>		
<b>Steps to Complete Job</b>	<b>Hazards</b>	<b>Preventive Measures</b>
Survey and set up the work area.	Workers can be cut on sharp materials, sharp edges, or equipment. Possible trips, falls, and being struck by loose debris or unsecure materials. Tools like chop saws, grinders and roto hammers can produce noise greater than 120db. Crews must wear hearing protection when noise exceeds 85dbs.	1) Hard Hat, Safety Glasses, Hi-Vis vest, Cut-4 Gloves, Cut Resistant Sleeves (framing or cutting), Knee pads (layout), Hearing Protection, and Work Boots.
		2) Identify, eliminate, or mark all trip hazards such as, open holes, slippery conditions, rolling stock, or changes in elevations.
		3) Correct or note any changes in work area since last leaving it.
		4) Pickup loose materials and remove debris from work area.
Identify any stored energies in the work area that could be released due to the work being performed, or by being damaged.	Workers could release unknown or unsuspected energy due to damage, removal of system components, or exposure of system components.	1) Relocate stored energy components or system from work area.
		2) Deenergize and install LOTO procedures to stored energy source.
		3) Install bulletproofing or mitigation to protect stored energy source.
		4) Barricade and tag area around stored energy source.
Walk area to ensure that there is adequate lighting and electrical power supply.	Lack of lighting can impair the ability to see, causing trips, falls, cuts, etc. Lack of	1) Have temporary task lighting provided before work begins.
		2) Have temporary power provided before work begins.



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	sufficient electrical power can cause circuit overloads and excessive number of electrical cords in the area.	3) Minimize electrical cords in area. Verify the cords in use are rated for their expected use. 4) All cords and lighting to be GFCI protected. 5) All cords to be tested and marked according to current Assured Grounding protocol.
Coordinate work in the area with other trades.	Possible confusion and conflict due to multiple trades working in a limited area.	1) Communicate with other trades to avoid creating a hazardous situation by trade stacking. <b>Coordination.</b>

**Step #2 Tool/ Equipment Inspection**

Steps to Complete Job	Hazards	Preventive Measures
Inspection of the powered tool/ equipment an' it's power supply.	Worker has the potential to be exposed to strains, sprains, and electrical hazards.	1) Stretch and flex before beginning of shift and after lunch. Stretch throughout the shift when needed to reduce or eliminate muscle strains.
		2) All corded tools/ equipment and battery chargers need to be connected to GFCI protection. If using an extension cord, the GFCI must be plugged into the approved power source, and then the cord plugged into the GFCI.
		3) Tools, cords, and extension cords need to be inspected for defects prior to use daily. If needed, remove faulty cords form service, and turn in to the foreman.
		4) Do not route extension cords over sharp objects, through wall track, or through main access routes. Elevate cords when feasible.
		5) Guards and safety switches must not be removed or tampered with. If guards are missing, replace before using or red tag and remove from service.
		6) Ensure secondary handles are installed and working properly. If secondary handles are missing, replace before using or red tag and remove from service.
		7) Never lift, lower, carry, or unplug a tool by its cord.
		8) Any tool/ equipment that is found in unsafe condition must be red tagged, turned in to the foreman and removed from service.

**Step #3 Tool/ Equipment Use**

Steps to Complete Job	Hazards	Preventive Measures
Using powered tools/ equipment for the scope	Worker has the potential to be exposed to cuts,	1) Only properly trained personnel are to operate tools/ equipment.



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<p>of work to be performed.</p>	<p>punctures, electrical hazards, struck-by, caught between, pinch points, eye injuries, loud noise, and silica exposure.</p>	<p>2) A face shield is required when sparks are generated from tool/ equipment i.e., chop saw or grinder. A face shield or tight fitted safety glasses (foam wrapped or spoggle) are required when working overhead to prevent eye injuries.</p> <p>3) Do not wear gloves when working with drill press or miter saw.</p> <p>4) Some tools like miter saws, grinders, screamers have the potential to produce noise that exceeds 120db. When activities create noise greater than 85db, hearing protection must be worn.</p> <p>5) Unplug or disengage battery when changing out blades or bits or performing any maintenance.</p> <p>6) Verify blades and bits are sharp and wheels are free of chips or cracks. Replace as needed.</p> <p>7) Position hands, fingers, and body to prevent putting yourself in a vulnerable position.</p> <p>8) Set up work area to minimize overreaching, bending, and kneeling.</p> <p>9) Follow FSS silica control policies when drilling, cutting, or grinding concrete. Only use Table 1 compliant tools.</p>
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