



FRED SHEARER & SONS, INC.
ESTABLISHED 1916

Job Hazard Analysis		JHA # 3
Job/Task Title: Arc and Wire Welding		
Safe Job Procedure:		Revised 11/2024
<p>This JHA is for the safe and successful use of an arc or wire welder. Special emphasis is placed on mitigating fire, electrical and burn hazards and controlling arc flash exposure.</p>		
WORKERS MUST READ AND UNDERSTAND JHA #0 BEFORE BEGINNING ANY TASK		
<p>Review JHA #23 Power Tools and Equipment, #24 MEWP and Aerial Lift, #26, #28 Scaffolding, #30 Covering and Cleanup</p>		
Step #1 Set Up Work Area		
Steps to Complete Job	Hazards	Preventive Measures
Setting up equipment and welding work area.	Worker has the potential to be exposed to electrical hazards, fire hazards, strain, and sprains.	1) Stretch and flex before beginning of shift and after lunch. Stretch throughout the shift when needed to reduce or eliminate muscle strains.
		2) Obtain Hot Work Permit or verify that welding is permitted in the work area before starting work.
		3) Supervisors are to ensure that all work is carried out by qualified personnel, who possess a current welding certificate.
		4) The worker performing the scope must walk the work area to ensure it is ready for welding activities and to verify that no combustible materials are in the vicinity.
		5) The welding area is to be well ventilated.
		6) Verify that a fire extinguisher is nearby and that it is charged and has a current annual inspection tag.
		7) Provide fire blanket where needed.
		8) Set-up a workstation that minimizes reaching, bending, kneeling, and lifting.
		9) When feasible, keep the work area dry.
Step #2 Welding Operation		
Steps to Complete Job	Hazards	Preventive Measures
Gather welding materials and perform welding scope.	Worker will be exposed to burns, flying debris and sparks, slag, and potentially hazardous fumes.	1) Wear required welding PPE; Welding Hood, Welding Gloves, and Welding Jacket.
		2) Wear a respirator or supplied air hood when needed. Always ensure there is adequate ventilation in work area.



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		3) Use appropriate shade of lens for the work being performed.
		4) Shield welding arc from others in the surrounding area.
Step #3 End of Shift Procedure		
Steps to Complete Job	Hazards	Preventive Measures
Safety procedures	Worker has the potential of being exposed to a fire.	1) All Hot Work stops 30 minutes before the end of shift. Implement a Fire Watch for the work area with an employee who is trained on hot work procedures.
		2) Store equipment in the job shack or gang box when no longer using.

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