



JOB SAFETY ANALYSIS

COMPANY/ PROJECT NAME or ID/ LOCATION (City, State)	DATE 8/19/15	<input checked="" type="checkbox"/> NEW <input type="checkbox"/> REVISED	PAGE 1 of 2
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WORK ACTIVITY (Description):

USING AN OXY-ACETYLENE WELDER/STAIR RAILS & STAIR STEPS

The welding area of a minimum of 35 feet in diameter must be established. Flammable materials must be removed from the welding area. A fire extinguisher with a minimum rating of 2A20B:C must be readily available to the welder. A fire alarm must be readily available. Ensure that ventilation is sufficient to avoid setting off a smoke-detector fire alarm.

DEVELOPMENT TEAM	POSITION / TITLE	REVIEWED BY:	POSITION / TITLE
Dave Ruzich	Safety Coordinator		

MINIMUM REQUIRED PERSONAL PROTECTIVE EQUIPMENT (SEE CRITICAL ACTIONS FOR TASK-SPECIFIC REQUIREMENTS)			
<input type="checkbox"/> REFLECTIVE VEST <input checked="" type="checkbox"/> HARD HAT <input checked="" type="checkbox"/> LIFELINE / HARNESS <input checked="" type="checkbox"/> SAFETY GLASSES	<input type="checkbox"/> GOGGLES <input checked="" type="checkbox"/> FACE SHIELD <input checked="" type="checkbox"/> HEARING PROTECTION-Ear Plugs <input checked="" type="checkbox"/> Steel Toed/Composite Shoes w/Define Heels	<input type="checkbox"/> AIR PURIFYING RESPIRATOR <input checked="" type="checkbox"/> N-95 Voluntary Use Respirator <input checked="" type="checkbox"/> PPE CLOTHING- Welding hood Welding Jacket and apron	<input checked="" type="checkbox"/> GLOVES Leather- Material Handling & Grinding –Welding gloves <input type="checkbox"/> Optional-

¹ JOB STEPS	² POTENTIAL HAZARDS	³ CRITICAL ACTIONS TO MITIGATE HAZARDS
1. Close off welding area.	<ul style="list-style-type: none"> Close off welding area. 	<ul style="list-style-type: none"> Close welding curtain to shield outsiders from flashing.
2. Prepare Railing & Stairs for welding.	<ul style="list-style-type: none"> Inhalation of fumes Flashing Sparks Slag splatter 	<ul style="list-style-type: none"> Turn on exhaust fan and timer. Wear welding hood. Wear welding jacket, apron, gloves, work shoes Wear welding jacket, apron, gloves, work shoes.
3. Set gauges, turn on gas cylinders.	<ul style="list-style-type: none"> Pinching fingers and hands 	<ul style="list-style-type: none"> Avoid pinch points when setting up gauges and hoses
4. Clean tip, make sure hose valves are tight, unwrap hoses.	<ul style="list-style-type: none"> Pinching fingers Tripping 	<ul style="list-style-type: none"> See Step # 3 Critical Actions for Mitigation Keep hands untangled and free from feet.
5. Use striker to light torch	<ul style="list-style-type: none"> Burning fingers, hands body; flashing 	<ul style="list-style-type: none"> Wear welding hood, welding jacket, apron, gloves, and work shoes.
6. Apply flame to material	<ul style="list-style-type: none"> Flashing, sparks, slag splatter 	<ul style="list-style-type: none"> Wear welding hood, welding jacket, apron, gloves, and work shoes.
7. Allow material to cool on workbench.	<ul style="list-style-type: none"> Burn to hands or fingers 	<ul style="list-style-type: none"> Wear gloves. Chalk mark welded area "Hot."



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8. Close valves, bleed off regulators, wrap hoses	<ul style="list-style-type: none"> Pinching fingers Tripping 	<ul style="list-style-type: none"> Avoid pinch points. Keep hoses untangled and free from feet.
9. Use chipping hammer to remove excess slag.	<ul style="list-style-type: none"> Eye damage by flying debris from hammer strikes Line of Fire w/Injuring fingers with hammer 	<ul style="list-style-type: none"> Wear safety glasses. Use caution to avoid striking fingers or hands with hammer.
10. Grind off Welds from Rails & Stair Wells	<ul style="list-style-type: none"> See Grinding Rails & Stairwells JSA 	<ul style="list-style-type: none"> See grinding Rail & Stairs JSA
11.		
12.		
13.		

¹ Each Job or Operation consists of a set of steps. Be sure to list all the steps in the sequence that they are performed. Specify the equipment or other details to set the basis for the associated hazards in Column 2

² A hazard is a potential danger. What can go wrong? How can someone get hurt? Consider, but do not limit, the analysis to: **Contact** - victim is struck by or strikes an object; **Caught** - victim is caught on, caught in or caught between objects; **Fall** - victim falls to ground or lower level (includes slips and trips); **Exertion** - excessive strain or stress / ergonomics / lifting techniques; **Exposure** - inhalation/skin hazards. Specify the hazards and do not limit the description to a single word such as "Caught"

³ Aligning with the first two columns, describe what actions or procedures are necessary to eliminate or minimize the hazards. Be clear, concise and specific. Use objective, observable and quantified terms. Avoid subjective general statements such as, "be careful" or "use as appropriate".