

Kansas Vocational Rehabilitation Services JOB SAFETY ANALYSIS

Job Safety Analysis (JSA) is a procedure for making a job or operation safer by identifying the hazards and potential accidents associated with each step in the job. JSA will help develop proper and safe job procedures for each step to eliminate, reduce or control the hazards.

USES AND BENEFITS OF JSA

The completed JSA provides a listing of the basic steps of the job and proper, safe procedures for completing each step.

The completed JSA can provide the following benefits:

- Standardized training through documented, step by step job procedures. Safer working conditions are developed.
- Improved and refined job procedures through review and experienced employees
 utilizing their expertise and experience. This will improve their safety attitude and
 increase their safety knowledge.
- A source for review of established job procedures during accident investigations. Subject matter for informal departmental "toolbox" safety meetings.

HOW TO PERFORM A JSA

Select the Job

Select jobs with the worst accident experience, a severe injury potential or new jobs or processes for which the hazards have not yet been analyzed.

Break the Job Down

Break the job down into its basic steps listing them in the order they are performed. This can be done by observing the job directly and/or by asking experienced workers and foremen to list the sequence of steps.

Identify the Hazards/Exposures

This is a critical step as only identified hazards/exposures can be acted upon. For each job step, list the hazard(s) or potential accident(s) that could occur as a result of performing that step. Be thorough in identifying all hazards/exposures. Do not overlook potential environmental hazards, i.e. weather, welding fumes, etc.

Develop Safe procedures

For each hazard or potential accident, develop a recommended safe job procedure for eliminating, reducing or controlling that hazard while performing the job step in the most efficient manner possible.

Document Review

Remember that the intent of this process is to eliminate or reduce losses. If an analysis of the loss data does not substantiate this, then the JSA should be reviewed for error and/or the process performed again. Even if accidents do not occur, review the procedures periodically to ensure continuance of understanding and application.

Rev. 2022.02.23

Kansas Vocational Rehabilitation Services JOB SAFETY ANALYSIS

Business Name: John's Metal Fabrication				Page:	1	of	2		
Job Title:	Grinders/Lab	orers			nalyzed by:	J. Jingleheimer			
Supervisor:	J. Schmidt				Date:	09/10/2021			
Required PPE: Full-face shield			plarized safety sunglasses,	Re	eviewed by:	R. Stylskin			
hard hat, gloves, and hearing protection.					Date: 09/13/2			L	
Required Physical Safeguards:			oropriate work clothing,	Ap	proved by:				
correct type of abrasive disk for §			n portable power grinder.		Date:				
Required Operational Changes:		None		Ap	proved by:				
					Date:				
Sequence of Job Steps		Potential Hazards			Safe Job Procedure				
Determine power source and type of portable power hand tool to be used, I.E.: electric or pneumatic.		1.	Electrical shock, contact with high-pressure air streams or flying hose lines.	1. Check power source and cords for fray, grounded plug ends, CGCI (ground fault circuit interrupters worn or defective connectors, air hose safe wire, grounded pipe sections, etc. Test CGCI before grinding.			l),		
Position grinding team several feet behind tack rig and forward of firing line (welders).		2.	Congestion, bottleneck of workers, tools, and equipment.	 Organize gang and firin line workers, tools, equipment, vehicles, et before commencing operations. 			s, les, etc		
3. Observe tack welding operations (welding of first stringer bead by pipe gang.)		3.	ARC flash, sparks.	3.	3. Don't look directly at welding operations. B aware of what's going Wear safety sunglasse with polarized lenses.		ns. Be oing o lasses	n.	
4. Move up alor tacking rig un canopy.	ng side of derneath sun	4.	Tripping over power cords or air hoses, being struck by or striking against tack rig, pipe, workers, and equipment.	4.	 Watch where you're go Tape power cords toge to keep them from tank Wait for tack rig to stok before commencing grinding operations. 		toget n tang o stop ng	her ling.	
5. Grab hold of power grinde		5.	Dropping tool on feet.	5.	Grasp hold both hands			p.	

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Sequence of Job Steps		Potential Hazards		Safe Job Procedure				
6. Grind stringer weld to remove excess, bead, slag for the next hot pass weld.		6. Foreign particles in eye from flying sparks or metal.		 Flip down full-face shield over safety sunglasses before commencing grinding operations. 				
7. Grinding stringer weld around pipe – two-person grinding operation.			Spraying each other with sparks or metal particles, or striking one another with the grinding disk.	7. Position self opposite to member. Operate grind to direct flying sparks of and away from face. Be grinding 180 degrees opposite partner and proceed around in the same clockwise or cour clockwise direction that both agreed upon beforehand. Find out if partner is left- or right-handed before beginning work.			e grind arks do ce. Be ees and n the r coun on that out if right-	er own gin ter- you
8. Finish grinding 20 seconds).	(last 10 to		Contact with moving disk/grinding wheels – cuts and lacerations.	8.	Allow grind stop before away from zone. Alway away from	lower the gri ys keep	ring to nding o tool	
9. Place tool on to	op of pipe.		Dropping or pulling tool off pipe onto feet. Damaging epoxy finish of pipe. Damaging tool.	9.	Sat tool down tangling feed in power co	et, arm	s, and	legs
10. Rest during we about two min			Being struck by firing line equipment/tools. Creating congestion on the work line.	10.	Be aware of surrounding activities of create dela hot welds recompleted minutes to	gs and other ys. Stri nust be within	s. Don inger a e 5-	't and
11. Start over with above.	n number 2,		Repetitive motion disorder/carpel tunnel syndrome.	11.	Trade off w member af jobs.			