

Job Safety Analysis, JSA Aid

Hazard	Hazard Types	Personal	Tools & Equipment	Workstation	Environment
Energy Sources	<p>Can the employee come into contact with any energy source?</p> <ul style="list-style-type: none"> Electricity Noise Hydraulics Chemicals Compressed Air Gravity Heat/Cold Gases/Radiation/Steam 	<ul style="list-style-type: none"> Is employee's clothing free of oil and grease? Is jewelry absent? Is employee knowledgeable about the energies around him/her? Is a respirator required? Are earplugs required? Is any other PPE required? 	<ul style="list-style-type: none"> Are portable electric tools properly grounded or double insulated? Are electrical cords in good condition? Are air hoses in good condition? Are tool handles insulated? 	<ul style="list-style-type: none"> Are tools stored correctly? Are all machine guards in place? Are all safety devices functional? Are lockout instructions posted? Are compressed gas cylinders correctly stored? 	<ul style="list-style-type: none"> Is lighting adequate? Are emergency stop buttons clearly labeled? Is heat stress a hazard? If so, is water provided? When was the noise level last tested? Are noise levels within acceptable limits?
Hazardous Materials	<p>Can the employee come into contact with any hazardous materials?</p>	<ul style="list-style-type: none"> Has employee received HAZCOM training? Does employee know where MSDS are? Is a respirator required? Is the respirator the correct type? Does the respirator fit correctly? Has the employee been trained in respirator use? Is the respirator always cleaned after use? 	<ul style="list-style-type: none"> Is it possible to substitute airless spray paint guns for compressed air types? Are screens used to enclose welding jobs? Are tools used for application well maintained? 	<ul style="list-style-type: none"> Are any required types of special clothing available? Do they fit well? Are materials correctly secured and stored? Are materials correctly labeled? Are separate containers provided for waste disposal? Is waste disposed of correctly? 	<ul style="list-style-type: none"> Is there an effective local exhaust ventilation system? Is there mechanical or general ventilation? When was the air last sampled? Is the air sampled regularly? Is employee aware of reactivity issues?
Struck By	<p>Can the employee be struck by anything?</p> <ul style="list-style-type: none"> Moving or flying objects Falling material 	<ul style="list-style-type: none"> Is a hard hat required? Does hard hat fit correctly? Are safety glasses or other protective eyewear required? Is protective eyewear of the correct type? 	<ul style="list-style-type: none"> Are overhead cranes maintained regularly? Are all chains, hooks, and cables in good repair? 	<ul style="list-style-type: none"> Is the workstation safe from intrusion by forklifts? Is stock correctly stacked? Are all machine guards in place? Are welding operations correctly guarded? 	<ul style="list-style-type: none"> Is lighting adequate? Are warning bells or other warning sounds audible to the employee?
Struck Against	<p>Can the employee strike against anything?</p> <ul style="list-style-type: none"> Stationary or moving objects Protruding objects Sharp or jagged edges 	<ul style="list-style-type: none"> Are gloves required? Do gloves fit correctly? Are gloves of the correct material? Is any other special clothing required? <ul style="list-style-type: none"> Aprons Arm protection Leg protection 	<ul style="list-style-type: none"> Are tools well maintained and unlikely to break or slip under stress? Are tool handles correctly shaped to prevent mechanical stress? 	<ul style="list-style-type: none"> Is the workstation safe from intrusion by forklifts? Is stock correctly stacked? Are all machine guards in place? Are welding operations correctly guarded? 	<ul style="list-style-type: none"> Is lighting adequate? Are warning bells or other warning sounds audible to the employee?

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Caught Between	<p>Can the employee be caught in, on or between anything?</p> <ul style="list-style-type: none"> • Pinch points • Protruding objects • Moving and/or stationary objects 	<ul style="list-style-type: none"> • Does work clothing fit correctly? <ul style="list-style-type: none"> ○ Sleeves short or buttoned? ○ Pants not too long? • Is jewelry absent? <ul style="list-style-type: none"> ○ Rings ○ Necklaces ○ Bracelets ○ Loose watch 	<ul style="list-style-type: none"> • Are tools well maintained and unlikely to slip under stress? • Does the employee know the locations of emergency stop buttons and cords? • Are tool handles free of oil or grease? • Is work position a potential hazard? 	<ul style="list-style-type: none"> • Are all machine guards in place? • Does the employee know correct procedures in the event of a jam? • Does the employee have sufficient reach and clearance for the job? • Are any points of operation seven feet from the floor and below correctly guarded? 	<ul style="list-style-type: none"> • Is lighting adequate? • Are warning bells or other warning sounds audible to the employee?
	<p>Can the employee slip, trip, or fall?</p> <ul style="list-style-type: none"> • On the same level • To a lower level 	<ul style="list-style-type: none"> • Are safety belts or harnesses required? • Is footwear of the correct type? <ul style="list-style-type: none"> ○ Non-slip soles? • Does employee's clothing fit correctly? 	<ul style="list-style-type: none"> • Are air hoses correctly positioned and away from the floor? • Are electrical cords sorted correctly? • Are tools stored correctly and away from the floor? • Are all ladders of wooden construction? • Are correct procedures used with ladders? 	<ul style="list-style-type: none"> • Is the floor free of debris such as bolts, cardboard, spare parts, etc.? • Are platforms clean and well maintained? • Is the floor free of water, oil or other containments? • Is seating safe? • Are any pits or holes correctly guarded? 	<ul style="list-style-type: none"> • Is lighting adequate for the job?
Ergonomics	<p>Can the employee be injured by poor job design hazards?</p> <ul style="list-style-type: none"> • Frequency • Force • Stressful posture 	<ul style="list-style-type: none"> • Is the employee's physical condition such as to allow him/her to perform the job without the risk of whole-body fatigue? • Do required gloves fit correctly? 	<ul style="list-style-type: none"> • Are tools the correct shape for the job? • Does the placement of tools make it easy to perform the job? • Do tools allow for alternating between hands? • Are tools well balanced? • Do heavy tools have mechanical support? • Do tools allow for neutral wrist posture? 	<ul style="list-style-type: none"> • Does the employee have adequate room to work comfortably without being cramped or using awkward postures? • Are walking, carrying, and lifting distances within reasonable limits to minimize fatigue and potential stress? • Are displays and controls positioned for easy use? 	<ul style="list-style-type: none"> • Does the level of lighting allow for the easy reading of displays? • Could noise level be a factor in contributing to fatigue?