

JOB SAFETY ANALYSIS (JSA) FORM					Rev 1 Feb 24
Unit/Area:	Specific Location:	Work Authorizer (if applicable):	Supervisor / Work Lead:	Date:	
Job Description for Tasks with High Potential Consequence (i.e., life-altering injuries or Consequence Level 1 process safety events including HC 1&2 events) (include Equipment Numbers as Practical):					
Check LSRA(s) that apply and review Start Work Check(s). Complete Page 2 with any additional task steps with high potential consequence or if there is no applicable LSRA.					
 Confined Space Entry Obtain authorization before entering a confined space ☐		 Bypassing Safety Controls Obtain authorization before overriding or disabling safety controls ☐		 Energy Isolation Verify isolation and zero energy before work begins ☐	
<ol style="list-style-type: none"> 1. I confirm energy sources are isolated 2. I confirm the atmosphere has been tested and is monitored 3. I check and use my breathing apparatus when required 4. I confirm there is an attendant standing by 5. I confirm a rescue plan is in place 6. I obtain authorization to enter 		<ol style="list-style-type: none"> 1. I understand and use safety-critical equipment and procedures which apply to my task 2. I obtain authorization before: <ul style="list-style-type: none"> • Disabling or overriding safety equipment • Deviating from procedures • Crossing a barrier 		<ol style="list-style-type: none"> 1. I have identified all energy sources 2. I confirm that hazardous energy sources have been isolated, locked, and tagged 3. I have checked there is zero energy and tested for residual or stored energy 4. I never remove or tamper with energy control devices without authorization 5. I confirm equipment is back to safe operating condition prior to re-energizing 	
 Safe Mechanical Lifting Plan lifting operations and control the area ☐		 Hot Work Control flammables and ignition sources ☐		 Working Around Mobile Equipment See and be seen; maintain a safe distance ☐	
<ol style="list-style-type: none"> 1. I confirm that the equipment and load have been inspected and are fit for purpose 2. I only operate equipment that I am qualified to use 3. I establish and obey barriers and exclusions zones 4. I never walk under a suspended load 5. I understand the lift plan prior to starting work and keep hands off load unless authorized 6. I establish and maintain communication with lifting and rigging personnel 		<ol style="list-style-type: none"> 1. I identify and control ignition sources 2. Before starting any hot work: <ul style="list-style-type: none"> • I confirm flammable material has been removed or isolated • I obtain authorization 3. Before starting hot work in a hazardous area, I confirm: <ul style="list-style-type: none"> • A gas test has been completed • Gas will be monitored continually 		<ol style="list-style-type: none"> 1. I plan work to separate workers and mobile equipment 2. I only operate mobile equipment if qualified and use spotters where required 3. I verify safety devices are functional on mobile equipment 4. I establish clear means of communication with equipment operator 5. I stay out of the equipment's exclusion zone while in operation 6. I confirm controls are in place to prevent unintentional movement of mobile equipment and/or loads 	
 Breaking Containment/OPE Manage ignition sources and exposure to energy & hazardous substances ☐		 Driving Follow safe driving rules ☐		 Work Authorization Work with a valid permit when required ☐	
<ol style="list-style-type: none"> 1. I verify opening/break location(s) 2. I confirm energy isolation is complete 3. I manage ignition sources and confirm gas testing is completed when required 4. I use appropriate PPE and defensive behaviors when opening process equipment 		<ol style="list-style-type: none"> 1. I always wear a seatbelt 2. I do not exceed the speed limit, and reduce my speed for road conditions 3. I do not use phones or operate devices while driving 4. I am fit, rested and fully alert while driving 5. I follow journey management requirements 		<ol style="list-style-type: none"> 1. I have confirmed if a permit is required 2. I am authorized to perform the work 3. I understand the permit 4. I have confirmed that hazards are controlled, and it is safe to start 5. I stop and reassess if conditions change 	
				 Line of Fire Keep yourself and others out of the line of fire ☐	
				<ol style="list-style-type: none"> 1. I position myself to avoid: <ul style="list-style-type: none"> • Moving objects • Vehicles • Pressure releases • Dropped objects 2. I establish and obey barriers and exclusion zones 3. I take action to secure loose objects and report potential dropped objects 	
Confirm these safeguards are in place and effective prior to starting work using the applicable SWC(s). During the task, if safeguards are no longer in place or effective, STOP Work.					

Are there any additional high potential consequence hazards present?

Electrical Energy 	Moving Objects 	Lighting & Visibility 	Simultaneous Operations (SIMOPS) or Stacked Work 
Stored Energy 	Hazardous Substances 	Noise & Vibration 	
Thermal Energy 	Radiation 		

High Potential Consequence Task Steps (Description)	Check off to indicate Hold Point	POTENTIAL HAZARDS & CONSEQUENCES Include applicable Error Prone Situations and Triggers	SAFEGUARDS (Actions & Physical Safeguards) Eliminate or Mitigate the hazards
	Hold Point ☐		
	Hold Point ☐		
	Hold Point ☐		
	Hold Point ☐		
	Hold Point ☐		

Confirm these safeguards are in place and effective prior to starting work using this JSA.
During the task, if safeguards are no longer in place or effective, STOP Work.

Lessons Learned (as needed): What improvements should be made for future work? Discussion leader to provide feedback to update planning package.

LAI HAZARD ANALYSIS

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Ref. Number	High Potential Consequence Task Steps	POTENTIAL HAZARDS & CONSEQUENCES Include applicable Error Prone Situations and Triggers	Target Check off to indicate Hold Point	Preliminary Risk Assessment			Control Type	SAFEGUARDS (Actions & Physical Safeguards) Eliminate or Mitigate the hazards	Final Risk Assessment			
				H	M	L			H	M	L	
								<p>A/E</p> <p>A/D</p> <p>A/D /E</p> <p>A</p>	<p>Proper waste management receptacles shall be utilized to control trash, debris, and scrap material.</p> <p>Access/ egress points and walkways shall be kept clear at all times.</p> <p>Extension cords, welding leads, and other cables shall be routed overhead, when possible, in a manner that does not create a slip/trip hazard.</p> <p>Regular supervisor walkthroughs should identify and eliminate housekeeping hazards and ensure proper housekeeping methods are being implemented throughout the work shift.</p>			

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				H	M	L			H	M	L
							E/W A A/W/E A/D	All employees are to correct (or notify their supervisor) if they observe uneven walking/working surfaces. Care should be exercised, when surveying overhead areas. All holes/floor opening eliminated or protected with hard barricades Complete a Last Minute Risk Assessment (LMRA) prior to beginning each task			
2	Use of electrical tools and hand tools  	Exposure to electrical shock Exposure to flying particles from material being worked or from equipment. Injuries from use hand tools.	P ☐		X		D/E/S/W/A	Prior to starting a task, Evaluate the Lifesaving Rules and actions (LSRA) start work Checks (SWC) that may apply to that task review START/STOP work expectations and implement, Verify & Validate (V&V) the appropriate behaviors and or control Safeguards per the ExxonMobil PSMS and site HSE Procedures during the pre-task brief			X

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				H	M	L			H	M	L
	 						A S/A A E/A A E/S	Ensure JSA for specific LAI tasks address proper hazard control methods. Implementation of GFCI requirements and Assured Grounding Program. Pre-use Inspection. Prompt removal from service of damaged equipment. A documented inspection will be performed, at least monthly, by a designated competent person. Use tools according manufacturer's instructions. Proper use of safe work practices including barriers, distance and required PPE. Use appropriate work area barrier screens and PPE. Eye /Face			

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				H	M	L			H	M	L	
								<p>protection Must be z87.1+ rated for high-impact flying particles. Ensure all guards are in place. Do not use damaged equipment.</p> <p>Use secondary support handle if equipped.</p> <p><u>The following list of tools is banned on site by Worley:</u></p> <ul style="list-style-type: none"> ▪ Handmade tools (unless with an approved engineers/competent person documented review). ▪ 1mm cutting/knifing discs. ▪ Knives, including Stanley knives, pocketknives/ leather man tools. ▪ 9" Grinders; and 				

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				H	M	L			H	M	L
							A	<ul style="list-style-type: none"> Shifters. Complete a Last Minute Risk Assessment (LMRA) prior to beginning each task			
3	Retrieve tools from tool room /gang box. Inspect tools and extension cord(s)	Head knocker from gang box lid. Falling Damage to tools/cords that could result in injury or electric shock	P ☐		X		D/S A A A	Lock gang box lid open by securing locking hinges on lid. Always do a pre-use inspection of all tools, take out of service any tools with defects. Any tool with a locking trigger shall not be used. All tools utilized must have the Quarterly and monthly color code; unplug electrical tools when not in use.			X
4	Run extension cord(s) from power source	Trips and falls, Electrocution, damage to cords	P ☐		X		A	Keep eyes on path, be aware of surroundings. Run all cords 6' overhead, when possible, when not possible run cord(s) away from water puddles and out of walkways and roadways to			X

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				H	M	L			H	M	L
							A/D /S	prevent damage to cords and tripping hazards. Always use GFCI at the source of power. If power is acquired via portable generator/ welding machine, always utilize a drip pan to catch any spilled fuel or any leaking fluids.			
5	Pulling / lifting tools to elevated work	Damaged tool / falling objects	F ☐		X		A/D	Do not lift or hoist tool via power cord, utilize bolt bags designed for lifting.			X
6	Use power tool (Grinder, Bandsaw, Reciprocating saw, Hand Drill, etc.)	Flying debris High noise Hand injuries Cuts to body parts Loud noise from air operated impact	P ☐		X		S A	Wear face shield and mono goggles when using a tool that creates dust particles. When grinding or cutting on galvanized coated steel, a 3m half face respirator will be utilized with a p100 cartridge. When grinding, be aware of where your sparks are being thrown. Contain all sparks 100% within spark containment fire box.			X

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				H	M	L			H	M	L
							A	Tools with trigger locks are not permitted for use on site.			
							A/S	Any employees within 10' of any power tool use that creates flying debris must don the same PPE as person using tool.			
							S	Wear ear plugs and/or earmuffs as necessary. Both ear plugs and muffs are required when noise levels meet or exceed 95 decibels			
							S	Utilize leather cut 6 level gloves with impact protection while operating power tools.			
							A/D	Use tools properly (per small tools training) do not override and safety devices (Handles, Guards), always unplug tool when in need of a new blade or grinding wheel			
							A	Be aware of hand and body position when using power tools. Don't place hands or any other			

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				H	M	L			H	M	L
								body part in pinch point created by blades and guards, position your body to maintain good balance during and after tool use, Tuck in loose fitting clothing to prevent the tool from being pulled into the body. A/D /S Never hold items to be grinded or cut in your hand! Always utilize a tripod, fab table or c-clamp to secure your work while engaged in grinding / drilling / cutting. A/D /S Utilize double hearing protection when using air tools S			
7	Buff and Grind using 4" electric grinders	Grinding disc can shatter and come apart	P ☐	X			A A	Thoroughly inspect all grinding discs for damage prior to use and discard if found defective. Check the maximum RPM rating for the grinding disc is greater than the maximum speed of the grinder itself.			X

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				H	M	L			H	M	L
							A	Ensure that the grinding disc is within its expiration date where printed.			
							A/D /S	For portable grinders 5" (125mm) or less, a handle must be fitted and used. Where handle use is not practicable in particular circumstances, two hands must be used, and the pre-task risk assessment must focus on the use of the grinder in this configuration. This variance must be reflected in the JHA.			
							A/D /S	The handle shall be reinstated (if removed) once the circumstance has been overcome.			
							A	The use of 7" (175mm) grinders for cutting or grinding activities can be performed only with approval by the Worley construction manager or supervisor respectively. Refer to form Request to Use 7" Grinder (MS-HS-FRM-0052).			

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				H	M	L			H	M	L
							A	The use of "Matobo" style cut off disk use with angle grinders can be performed only with approval by the Worley construction manager by a person deemed competent and will be approved by written variance on a "case by case" basis.			
							A	The use of 9" (230mm) portable grinders for cutting and grinding activities is not allowed under any circumstances.			
8	Hot work (burning, welding, grinding, etc.) within and around the GOLD project	Open flame and/or sparks around combustible materials within and around the project resulting in a fire, personnel injury (burns including flash burns) and or damage to the facility.	P/F/E ☐	X			D/E /S/ W/A	Prior to starting a task, Evaluate the Lifesaving Rules and actions (LSRA) start work Checks (SWC) that may apply to that task review START/STOP work expectations and implement, Verify & Validate (V&V) the appropriate behaviors and or control Safeguards per the			X

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				H	M	L			H	M	L
	  							ExxonMobil PSMS and site HSE Procedures during the pre-task brief Ensure JSA for specific LAI tasks address proper hazard control methods Utilize work permit process to control work activities. Ensure personnel are trained in the use of fire extinguishers and in the emergency response to fires. Keep combustible materials at least 35 feet away from hot work (housekeeping). Keep flammable materials at least 50 feet away from hot work.			

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				H	M	L			H	M	L
							A/S	Personnel performing shall wear appropriate protective clothing and gloves to be defined in the JHA.			
							A	Only trained and authorized personnel shall be permitted to perform hot work.			
							A/D	A fire watch will be in place with requires gas monitoring equipment and will remain a minimum of 30 min after hot work has stopped.			
							A	Complete a Last Minute Risk Assessment (LMRA) prior to beginning each task.			
9	Use of Powder actuated Tools 	Personnel exposure to high velocity projectiles or debris resulting in injury. Damage to Equipment or process	P/F ☐		X		S/W /A	Follow requirements in accordance with Worley Hand and Power Tool Safety Standard MS-HS-STD-0054			X
							A	Personnel shall receive training and have certification of training			

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				H	M	L			H	M	L	
								<p>prior to using powder activated tools.</p> <p>Approval shall be obtained from project Management prior to the use of an explosive powered tool.</p> <p>Warning signs shall be posted to ensure personnel are aware that an explosive powered tool is being used. The sign shall read: "POWDER-ACTIVATED TOOL IN USE IN THIS AREA".</p> <p>Additional Required PPE</p> <ul style="list-style-type: none"> • High impact face shield. • Double Hearing protection commensurate with high impact noise. <p>Explosive powered tools shall not be used in the vicinity of other personnel unless specific safety precautions are identified within the JSA, documented, and implemented.</p>				

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				H	M	L			H	M	L
								Explosive powered tools are not to be used in situations where flammable or explosive gas, liquid or dust is present. Use the tool at least 100mm away from edges of concrete. A Ensure the surface used is not hard or brittle. A Do not use in existing holes. A Do not use on soft or brittle substances/materials which allows the projectiles to pass through. Storage A/D Tools and cartridges shall not be stored or used in explosive or flammable atmospheres. A No explosive powered tool shall be stored in a loaded condition. Cartridges shall be stored in			

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				H	M	L			H	M	L
							A	suitable metal containers which shall be kept locked. Charges and nails shall not be stored in the same container unless a proper divider/compartiment is provided to separate the charges. Charges shall not be carrier loose in the operators' pocket.			
10	Storage of power tools	Damage to tools/cords that could result in injury or electric shock Bodily harm due to lid of gang box falling	P/F ☐		X		A/D D/S	Always unplug tool by hand not by pulling cord, carry by handle or body of tool not by cord, and store in a dry location. Remove any blades, drill bits, or batteries before storing tool. Always lock lid of gang box open by locking the hinges on the lid of box to prevent unplanned event			X

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