

<b>Title</b>	Risk Assessment Exercise					
<b>Target Population</b>	Field Engineers & Field Specialists					
This requirement is applicable to:	✓	JFE		FST		EOT
	✓	FE1	✓	FS1		EO1
	✓	FE2	✓	FS2		EO2
			✓	FS3		EO3
					✓	GEO

**Objective:**

The objective of this task is to train the employees on how to apply the principles of Risk Management to an actual operational risk situation in CT operations.

**Tasks:**

- Identify operational risks in a job at location
- Write a risk management plan to safely operate in the face of the identified risk
- Gain an expert comment on the risk whenever required and obtain the appropriate management approval to perform the job.

Please attach a risk management plan as an evidence.

**Note:**

- Exemptions are exclusively used to obtain "permission" for operations that violated the conditions of safety standard.
- Exemptions are required to be created, documented and communicated across the team to increase awareness on that particular risks.

**REQUIRED EVIDENCE:**


1 Risk Management Plan



OVERALL SCORE	STRONG			ADEQUATE			IMPROVEMENT NEEDED		
	10	9	8	7	6	5	4	3	2

**MENTOR / ASSESSOR's Comments & Recommendation:**


*Able to identified and to explain the hazard risk in detail for the job / task execution.*

Signature		Assessment Date	18/3/2024
Name	Ahmed	Position	HSSE Executive

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FSM / OM Comments & Recommendation:

Make to identify hazard risk during job and explain on mitigation plan

Signature		Assessment Date	8/8/24
Name	FISHWAP	Position	FSM

# HAZID WORKSHEET

Facility	DULANG- D	Activity	To start and run diesel engine for pump unit
Review Date	24/4/2024	Purpose	To access potential risk on conducting hot work activities as safe zone

HAZID PUMPING SPV – ZALANI IBRAHIM  
 Team: PUMP OPT – RAHIMAN

**Background:**

To startup and run hydraulic pump unit.  
 Unit will be operated to pumping chemical in to well.  
 RA is conducted to evaluate and provide additional safety measure towards personnel and equipment during hot work activities.

**Category: Facilities Hazards (Fire and Explosion Hazards)**

Ref No	GUIDEWORD	HAZARDS/ EXPANDERS	CAUSES	CONSEQUENCES	EXISTING SAFEGUARD, IF ANY	INHERENT/ INITIAL RISK	RECOMMENDED SAFEGUARD	RESIDUAL/ FINAL RISK	ACTION PARTY	TARGET DATE
1	Ignition spark and flame at Power Diesel Engine and exhaust system	Engine was caught on fire and spread to cabin unit	Unavailability of spark and exhaust flame arrester for internal combustion engine	-Damaged the equipment and cause injury / fatality personnel -Affect the platform, operation, HSE and production	-Spark and arrester installed to exhaust / engine system -ESD system functioning and easy to access -Fire extinguisher (2 units)	P – B3 E – N/A A – B3 R – B2	. Check condition of spark and flame arrester . Standby the fire extinguisher . Check the functionality of ESD . Check the fuel hose / connection. -Prepare the escape route & plan and medical response/ treatment	P – B2 E – N/A A – B2 R – B1	DIMENSION BID	Continuou
2	Top up diesel into equipment	- Fire and explosion	-Fuel hose / connection leakage -Electrostatic discharg	-Property damage / fatality	-Earthing wire is connected to metal point.	P – B3 E – N/A A – B3 R – N/A	-Appointed standby person to fill up daily checklist to operate portable machine and upload in e-PTW on daily basis. -Apply buddy system while refueling. -Ensure engine stop prior refueling -Perform housekeeping after refueling	P – B1 E – N/A A – B2 R – N/A	DIMENSION BID	Continuou

Prepared By (HAZID Leader):	Endorsed & Approved By: (OS)
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**JOB HAZARD ANALYSIS (JHA) WORKSHEET**

JOB STEP	DESCRIPTION OF JOB STEP	POTENTIAL HAZARD	POTENTIAL CONSEQUENCES	CONTROL BARRIERS	ACTION PARTY	RECOVERY BARRIERS	ACTION PARTY	WORK PERMIT TYPE	
								SPECIFIC WORKSTATION	HOT
FACILITY		PTW NO		LOCATION		WORK DESCRIPTION		HOT	
EQUIPMENT NO.		WORK DESCRIPTION		Site Visit, Photo Taking and Fit test wellhead crossover					
1	Prepare tools, equipment and material for site survey	Pinch Point	Hand & finger injury	<ul style="list-style-type: none"> <li>Correct hand placement</li> </ul>	Dimension Bid personnel	<ul style="list-style-type: none"> <li>First aid</li> </ul>			Platform Medic
2	Pre Job hazard hunt	Congested Area	Slip, trip and fall	<ul style="list-style-type: none"> <li>Clear work area from obstruction</li> </ul>	Dimension Bid personnel	<ul style="list-style-type: none"> <li>First aid</li> </ul>			Platform Medic
		Sharp object	Hand and finger injury	<ul style="list-style-type: none"> <li>Remove all sharp object</li> <li>Proper gloves / Impact resistant gloves</li> </ul>	Dimension Bid personnel	<ul style="list-style-type: none"> <li>First aid</li> </ul>			Platform Medic
3	Take measurement and picture on main deck and cellar deck	Congested Area	Slip, trip and fall	<ul style="list-style-type: none"> <li>Clear work area from obstruction</li> </ul>	Dimension Bid personnel	<ul style="list-style-type: none"> <li>First Aid</li> </ul>			Platform Medic
		Sharp object	Hand and finger injury	<ul style="list-style-type: none"> <li>Remove all sharp object</li> <li>Proper gloves / Impact resistant gloves</li> </ul>	Dimension Bid personnel	<ul style="list-style-type: none"> <li>First aid</li> <li>Change of gloves if no longer suitable for use.</li> </ul>			Platform Medic Dimension Bid personnel
4	Take measurement of deck elevation	Congested Area	Slip, trip and fall	<ul style="list-style-type: none"> <li>Clear worksite/ pathway from obstruction</li> </ul>	Dimension Bid personnel	<ul style="list-style-type: none"> <li>First Aid</li> </ul>			Dimension Bid personnel
5	Check production casing Gauge	Trapped pressure	Personnel injury	<ul style="list-style-type: none"> <li>Bleed-off pressure slowly (if required)</li> <li>Check pressure gauge to ensure pressure</li> </ul>	Dimension Bid personnel	<ul style="list-style-type: none"> <li>First Aid</li> </ul>			Medic
		Congested area	Slip, trip and fall	<ul style="list-style-type: none"> <li>Clear worksite/ pathway from obstruction</li> </ul>	Dimension Bid personnel	<ul style="list-style-type: none"> <li>Medical treatment</li> </ul>			Medic
		High Noise	Hearing impairment	<ul style="list-style-type: none"> <li>Wearing ear plug and ear muff.</li> <li>Minimize exposure time.</li> </ul>	Dimension Bid personnel	<ul style="list-style-type: none"> <li>Medical Rehabilitation Program</li> </ul>			Medic
6	Check Master Valve, Lower Master Valve, Wing Valve – Ensure in close condition	Trapped pressure	Personnel injury	<ul style="list-style-type: none"> <li>Bleed-off pressure slowly</li> <li>Check pressure gauge to ensure pressure</li> </ul>	Dimension Bid personnel	<ul style="list-style-type: none"> <li>First Aid</li> </ul>			Medic
		Congested area	Slip, trip and fall	<ul style="list-style-type: none"> <li>Clear worksite/ pathway from obstruction</li> </ul>	Dimension Bid personnel	<ul style="list-style-type: none"> <li>Medical treatment</li> </ul>			Medic
		High Noise	Hearing impairment	<ul style="list-style-type: none"> <li>Wearing ear plug and ear muff.</li> <li>Minimize exposure time.</li> </ul>	Dimension Bid personnel	<ul style="list-style-type: none"> <li>Medical Rehabilitation Program</li> </ul>			Medic
7	Open Christmas Tree Cap	Trapped pressure	Personnel injury	<ul style="list-style-type: none"> <li>Bleed-off pressure slowly</li> <li>Check pressure gauge to ensure pressure</li> </ul>	Dimension Bid personnel	<ul style="list-style-type: none"> <li>First Aid</li> </ul>			Medic
		Congested area	Slip, trip and fall	<ul style="list-style-type: none"> <li>Clear worksite/ pathway from obstruction</li> </ul>	Dimension Bid personnel	<ul style="list-style-type: none"> <li>Medical treatment</li> </ul>			Medic
		High Noise	Hearing impairment	<ul style="list-style-type: none"> <li>Wearing ear plug and ear muff.</li> <li>Minimize exposure time.</li> </ul>	Dimension Bid personnel	<ul style="list-style-type: none"> <li>Medical Rehabilitation Program</li> </ul>			Medic

JOB STEP	DESCRIPTION OF JOB STEP	POTENTIAL HAZARD	POTENTIAL CONSEQUENCES	CONTROL BARRIERS	ACTION PARTY	RECOVERY BARRIERS	ACTION PARTY
8	Measure wellhead connection	Trapped pressure	Personnel injury	<ul style="list-style-type: none"> <li>Bleed-off pressure slowly</li> <li>Check pressure gauge to ensure pressure</li> </ul>	Dimension Bid personnel	<ul style="list-style-type: none"> <li>First Aid</li> </ul>	<ul style="list-style-type: none"> <li>Medic</li> </ul>
		Congested area	Slip, trip and fall	<ul style="list-style-type: none"> <li>Clear worksite/ pathway from obstruction</li> </ul>	Dimension Bid personnel	<ul style="list-style-type: none"> <li>First Aid</li> </ul>	<ul style="list-style-type: none"> <li>Medic</li> </ul>
		High Noise	Hearing impairment	<ul style="list-style-type: none"> <li>Wearing ear plug and ear muff.</li> <li>Minimize exposure time.</li> </ul>	Dimension Bid personnel	<ul style="list-style-type: none"> <li>First Aid</li> </ul>	<ul style="list-style-type: none"> <li>Medic</li> </ul>
		Congested area	Slip, trip and fall	<ul style="list-style-type: none"> <li>Clear worksite/ pathway from obstruction</li> </ul>	Dimension Bid personnel	<ul style="list-style-type: none"> <li>First Aid</li> </ul>	<ul style="list-style-type: none"> <li>Medic</li> </ul>
9	Fit Test wellhead crossover with tree cap	Pinch Point	Hand & finger injury	<ul style="list-style-type: none"> <li>Correct hand placement</li> </ul>	Dimension Bid personnel	<ul style="list-style-type: none"> <li>First aid</li> </ul>	<ul style="list-style-type: none"> <li>Platform Medic</li> </ul>
		Heavy load	Back pain	<ul style="list-style-type: none"> <li>Use buddy system</li> <li>Use right technique</li> <li>Use crane to lifting and lower down the crossover</li> </ul>	Dimension Bid personnel	<ul style="list-style-type: none"> <li>First aid</li> </ul>	<ul style="list-style-type: none"> <li>Platform Medic</li> </ul>
		Congested area	Slip, trip and fall	<ul style="list-style-type: none"> <li>Clear worksite/ pathway from obstruction</li> </ul>	Dimension Bid personnel	<ul style="list-style-type: none"> <li>First Aid</li> </ul>	<ul style="list-style-type: none"> <li>Medic</li> </ul>
		Pinch Point	Hand & finger injury	<ul style="list-style-type: none"> <li>Correct hand placement</li> </ul>	Dimension Bid personnel	<ul style="list-style-type: none"> <li>First aid</li> </ul>	<ul style="list-style-type: none"> <li>Platform Medic</li> </ul>
10	Disconnect wellhead crossover with tree cap	Heavy load	Back pain	<ul style="list-style-type: none"> <li>Use buddy system</li> <li>Use right technique</li> <li>Use crane to lifting and pick-up the crossover</li> </ul>	Dimension Bid personnel	<ul style="list-style-type: none"> <li>First aid</li> </ul>	<ul style="list-style-type: none"> <li>Platform Medic</li> </ul>
		Congested area	Slip, trip and fall	<ul style="list-style-type: none"> <li>Clear worksite/ pathway from obstruction</li> </ul>	Dimension Bid personnel	<ul style="list-style-type: none"> <li>First Aid</li> </ul>	<ul style="list-style-type: none"> <li>Medic</li> </ul>
		Pinch Point	Hand & finger injury	<ul style="list-style-type: none"> <li>Correct hand placement</li> </ul>	Dimension Bid personnel	<ul style="list-style-type: none"> <li>First aid</li> </ul>	<ul style="list-style-type: none"> <li>Platform Medic</li> </ul>
		Heavy load	Back pain	<ul style="list-style-type: none"> <li>Use buddy system</li> <li>Use right technique</li> <li>Use crane to lifting and pick-up the crossover</li> </ul>	Dimension Bid personnel	<ul style="list-style-type: none"> <li>First aid</li> </ul>	<ul style="list-style-type: none"> <li>Platform Medic</li> </ul>
11	Housekeeping	Slippery floor	Slip and fall	<ul style="list-style-type: none"> <li>Clean up all spills</li> <li>Keep worksite clear off tripping hazards.</li> </ul>	Dimension Bid personnel	<ul style="list-style-type: none"> <li>First aid</li> <li>Use of ant-slip material at potential slip area.</li> </ul>	<ul style="list-style-type: none"> <li>Platform Medic</li> <li>Dimension Bid personnel</li> </ul>
		Pinch Points	Hands and finger injury	<ul style="list-style-type: none"> <li>Identify all potential pinching points</li> <li>Proper gloves / Impact resistant gloves</li> </ul>	Dimension Bid personnel	<ul style="list-style-type: none"> <li>First aid</li> <li>Change of gloves if no longer suitable for use.</li> </ul>	<ul style="list-style-type: none"> <li>Platform Medic</li> <li>Dimension Bid personnel</li> </ul>