

Title	Risk Assessment Exercise				
Target Population	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:

- Risk Management Plan



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

MENTOR / ASSESSOR's Comments & Recommendation:

The personnel was able to elaborate the Hazard term and statement in the JHA.

Signature		Assessment Date	8/12/2024.
Name	AHMAD BIN AB MAJID	Position	HSSE Executive

SNR EXECUTIVE HSSE & FACILITIES
DIMENSION BID (M) SENT

DIMENSION BID

CTS TASK SHEET

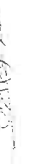
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FSM / OM Comments & Recommendation:

-Aide to manage risk properly.

Signature		Assessment Date	8/12/24
Name	RIDWAN AZIZAN	Position	FSM

☐ DIVING CERT. No.: _____
☐ LIFTING CERT. No.: _____
☐ LoEAC. No.: _____
☒ JHA. No. JHA 00254 UJA
☐ EXCAVATION CERT. No.: _____
☐ ELECTRICAL ISOLATION CERT. No.: _____
☐ PHYSICAL ISOLATION CERT. No.: _____
☐ RADIATION CERT. No.: _____

SECTION 6: ACKNOWLEDGEMENT REQUIRED AS IDENTIFIED BY APPROVING AUTHORITY (e.g. CSR)		
Position	SR	
Name	Saful Akmal M Noor M Noor	
Initial/Date	4 Oct 2024 10:53 AM	
SECTION 7: AUTHORIZATION		
RECEIVING AUTHORITY		AUTHORISED SUPERVISOR
Name: zainuddin yaaqob		Name: M Khalil Azman (PMO/Upstream)
Signature: Submitted		Signature:
Date: 22 Oct 2024		
Time: 9:34 PM		
		Name: Shahri: Signature: App Date: 24 Oct 2 Time: 10:38 A
		Date: 23 Oct 2024 Time: 8:52 AM

SECTION 8: JOINT SITE VISIT BEFORE WORK COMMENCES (AAR & RA/WL) I have personally checked the area and equipment to be worked on and I am satisfied that the work requested can be carried out safely.		APPROVING AUTHOR Name: M Arifuddin B A Halim (PMO/Upstrea Signature:  Date: 24 Oct 2024 Time: 1:46 PM	
WORK LEADER Name: zainuddin yaacobi Signature: Performed Date: 24 Oct 2024 Time: 1:4 PM			

[illegible]

SECTION 10: DAILY REVALIDATION & ENDORSEMENT (WL, AAR & AA)										
Date/Shift	24/10/2024 Day	24/10/2024 /Night	25/10/2024 /Day	25/10/2024 /Night	26/10/2024 /Day	26/10/2024 /Night	27/10/2024 /Day	27/10/2024 /Night	28/10/2024 /Day	28/10/2024 /Night
Suspended reason										
AA Signature	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
Name										
WL Signature	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
Name										
AAR Signature	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
Name										

SECTION 11: HANDBACK & CLOSE (WL, AAR & AA)	

SITE: ANGSI	Zone U	☐
WORK ORDER NO:	Zone 1	☐
SUB AREA: Main Deck	Zone 2	☒
	Non Hazardous Area	☐
	Non Hydrocarbon Area	☐

ACTIVITIES (APPLICANT & AS)	
☐ High Traffic	☐ Metal
☒ Hot Surface	☐ Drilling
☒ Hydrocarbon	☐ Needle Gun
☐ Liquid/Gas	☒ Noise
☐ Hydro-jetting	☐ Pressure
☐ Lifting	☐ Test
☐ Mercury	☐ Radiation
	☒ Rotating Equipment
☐ Saw/Cold Cut	☐ Working Overboard
☐ Scaffolding	☐ Others :
☐ Static Electricity	☐ Note: AS is responsible to ensure hazards / hazardous activities are identified
☐ Steam	☐ Underground Piping/cables/drains
☐ TENORM	☐ Vehicle
☐ Toxic Substance/Chemical	☐ Volatile Liquid
	☒ Wellhead Activities
	☐ Wireline Activities Working at Height adequately

/PRECAUTIONS (APPLICANT/RA & AS)		Additional Precautions:
tinguisher on work site ged/ventilated Removal of Energy Removal of Energy ected and safe to : tools/materials against entification (tagging) x Meeting	☐ Valves chain lock closed ☐ Valves chain lock open ☐ Valves Spading/Blinding ☒ Warning sign/notice required ☒ Worksite free of combustibles ☐ Others ☐ Gas test required ☐ Gas Monitoring ☐ Continuous Every _____ HRS	Note: AS is responsible to ensure worksite preparation/ precautions are identified adequately

EQUIPMENT (APPLICANT/RA & AS)			
Face	Fall Protection	Hand Protection	Personal monitoring Equipment
Protection	☐ Fall Arrestor	☐ Chemical Gloves	☒ H2S Meter
ce Shield	☐ Full Body	☒ Cotton Gloves	☐ Personal Distress Unit
oggles	Harness	☒ Impact Glove	☐ Personal Dosimeter/Film Badge/Survey Meter
ilding Mask	Body Protection	☐ Leather Gloves	☐ Personal O2 Monitor
ng Protection	☐ Apron	☐ Rubber Gloves	
Muff	☐ Chemical Boot	Others	



JOB HAZARD ANALYSIS (JHA) WORKSHEET

JHA NO.	JHA 0025419A	PTW NO.	0025419	WORK PERMIT TYPE	Cold Work
FACILITY	PMA	LOCATION	ANGSI	SPECIFIC WORKSTATION	ANDP-D
EQUIPMENT NO.	D-7	WORK DESCRIPTION	To Perform Rig Up Pumping Equipment for Acid Wash Treatment on Well D-7		
OVERALL RISK RATING (Tick ✓)		☐ Low	☒ Medium	☐ High	☐ Very High

NOTE

- JHA Shall be applicable for all work activities which required PTW.
- Personnel carrying out the work shall be fully familiar with the written Work/Operating Procedures developed for the job. The Work/operating procedures shall describe, in step-by-step instructions, the correct method of executing the specified work.
- Prior to commencement of work, the task-specific JHA shall be discussed amongst all personnel involved in the execution; and requirements contained shall be fully understood and agreed by all involved personnel.
- Overall Risk Rating to be based on PETRONAS Risk Matrix 5x5
- STOP WORK AUTHORITY to be enforced for any deviation from JHA job step

JOB STEP	DESCRIPTION OF JOB STEP	POTENTIAL HAZARD	POTENTIAL CONSEQUENCES	CONTROL BARRIERS	ACTION PARTY	MONITORING REQUIREMENT (Y/N)	RECOVERY BARRIERS	ACTION PARTY	MONITORING REQUIREMENT (Y/N)
1	Toolbox Meeting	H.20.01 H2S (hydrogen sulfide, sour gas) / *H2S (hydrogen sulfida, gas masam)	Hazardous gas, personal injury	Attended H2S Awareness Training To have H2S detector at all time	All Worker - db crew All Worker - db crew	N Y	Standby escape set at site First aid kit and medical services.	All Worker - db crew Medic	Y N
		H.24.06 Other communicable diseases / Penyakit berjangkit lain	SPREAD OF INFECTIOUS DISEASE (COVID-19)	Good practice of personal hygiene Social distancing whenever possible	All Worker - db crew All Worker - db crew	N N	Case isolation and effective treatment Site clinic facilities / Medical Services.	All Worker - db crew Medic	N N
		H.9.01 Weather / Cuaca	ADVERSE WEATHER CAN CAUSE AN ACCIDENT	Stop work for adverse weather conditions (heat stress etc.).	All Worker - db crew	N	Others-Stop work and go to safe sheltered	All Worker - db crew	N
2	Mobilize to worksite								

		H.30.01 High-level noise / *Bunyi bising yang kuat	Hearing injury	Limit exposure duration through job rotation. Wear Ear Plug/Ear Muff with sufficient noise reduction rating (NRE).	All Worker - db crew	N	Annual audiometric testing.	All Worker - db crew	N
	3	Spot the equipment accordingly to space availability	Finger or hand injury	Maintain safe distance from pinch point area Conduct toolbox talk and make sure everyone clearly understands their task and associated hazard.	All Worker - db crew	N	Wear high impact glove	All Worker - db crew	N
	4	Lifting pumping equipment by using crane	Personnel injury (Body injury) Equipment damage	Limit exposure duration through job rotation. Maintain safe distance from pinch point area Ensure proper body posture while doing the job	All Worker - db crew	N	Stop work and get clarification if not clear about the task	All Worker - db crew	N
	5	Manual lifting treating iron for surface line	Back pain	Work arrangement and procedures Others-Correct manual material handling procedure Use right tool for the job	All Worker - db crew	N	Job rotation. Stop work and step back to assess the condition Seek immediate medical attention for back pain/injury	All Worker - db crew	N
	6	Rig up 4" hose from storage tank to single pump	Slip, Trip and Fall (Body, hands and leg injury) & Defects on equipment Finger injury	Others-Correct manual material handling procedure Apply buddy system	All Worker - db crew	N	Others-Work condition/practice improvement Work condition/practice improvement Medical services.	All Worker - db crew Medic	N
	7	Rig up treating iron from single pump to pumping tee and well injection	Personnel injury or back pain Personnel injury or back pain	Correct manual material handling procedures Correct hand placement/positioning Maintain safe distance from pinch point area	All Worker - db crew	N	Work condition/practice improvement Others-Apply buddy system	All Worker - db crew	N
	8	Connect hydraulic hose on pumping equipment	Hand or finger injury Personnel Injury	Bleed off any trapped pressure	All Worker - db crew	N	Wear high impact glove First Aid/Medical Treatment First Aid/Medical Treatment	All Worker - db crew Medic Medic	Y N N

9	Housekeeping work area	H.26.11 Work Environment / Persekitaran Kerja	Slip, trip and fall	Work arrangement and procedures	All Worker - db crew	N	Others-Stop work and step back to assess the condition	All Worker - db crew	N
				Others-Maintain housekeeping during working period	All Worker - db crew	N			

JHA PRECAUTIONARY CONTROL BARRIER (JPCB) CHECK

NOTE

1. Barriers to be extracted from JHA and timing for Barrier Verification Frequency to be agreed with PTW AA and PTW WL
2. JPCB check to be filled for every PTW revalidation.

4.00 pm

No.	JHA Barriers (Date: 24/10/2014)	Barrier Verification Frequency (Tick ✓ and times:amp where applicable)				Remarks
		2.00 pm				
1	To have H2S detector at all time	/	/			
2	Standby escape set at site	/	/			
3	Wear Ear Plug/Ear Muff with sufficient noise reduction rating (NRR).	/	/			
4	Others-Use double ear protection	/	/			
5	Correct hand placement/ positioning	/	/			
6	Wear high impact glove	/	/			

JHA APPROVAL DURING PTW APPLICATION

REVIEWED BY

NAME

M Khalil Azman (PMO/Upstream)

DESIGNATION

AS/SSE

APPROVED BY

NAME

M Khalil Azman (PMO/Upstream)

DESIGNATION

AS

SIGNATURE



DATE

23/10/2024

SIGNATURE



DATE

23/10/2024

WORK TEAM (CONFIRMATION THAT JHA HAS BEEN COMMUNICATED TO WORK TEAM AS PART OF PRE_JOB/TOOLBOX MEETING _ AFTER PTW HAS BEEN APPROVED)

AFTER PTW HAS BEEN APPROVED

24/10

Name (S)

Designation

Signature

Day 1

Day 2

Day 3

Day 4

Day 5

Day 6

Day 7

Zaidin

SupV



Syarifuddin

E1



Ahmad

Eot



To be filled every PTW suspension / stop work authority, daily

DEBRIEF
(TO BE FILLED BY WORK LEADER)

- What went well?
- What did not happen as planned?
- How can it be done better?
- Unsafe observations
- Other feedback from workers

Date:

Remarks: