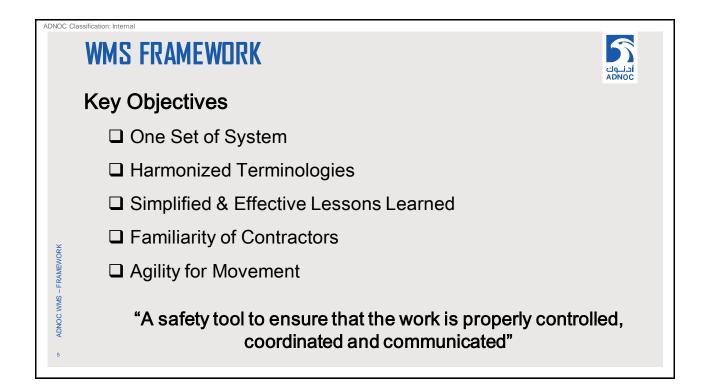
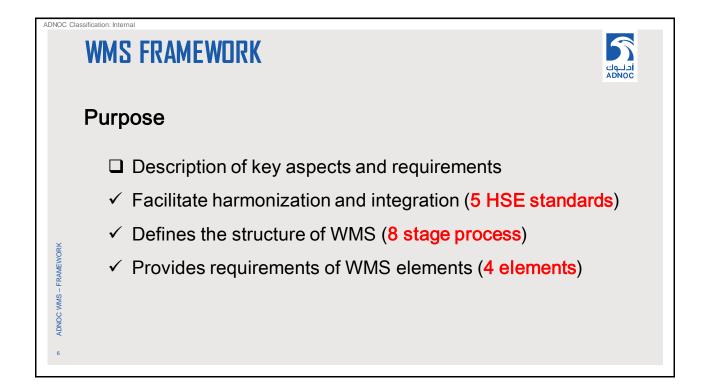
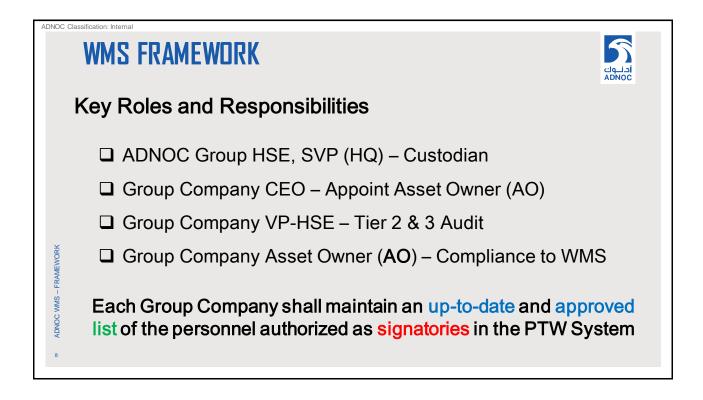


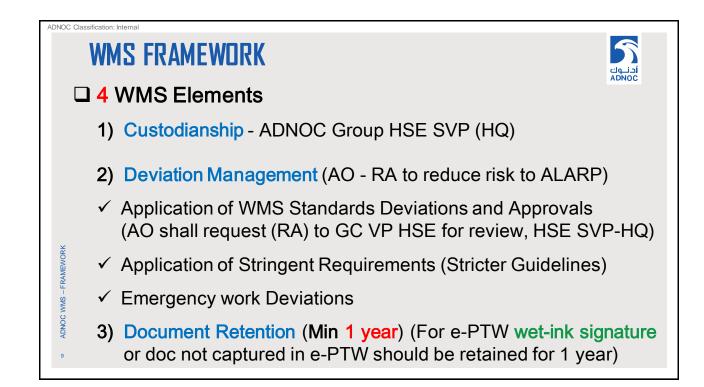
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		Introduction	Key Roles	Framework
		<ul><li>Key Objectives</li><li>Purpose</li><li>Scope</li></ul>	Roles and Responsibilities	<ul> <li>WMS Elements</li> <li>Continual Improvement</li> </ul>

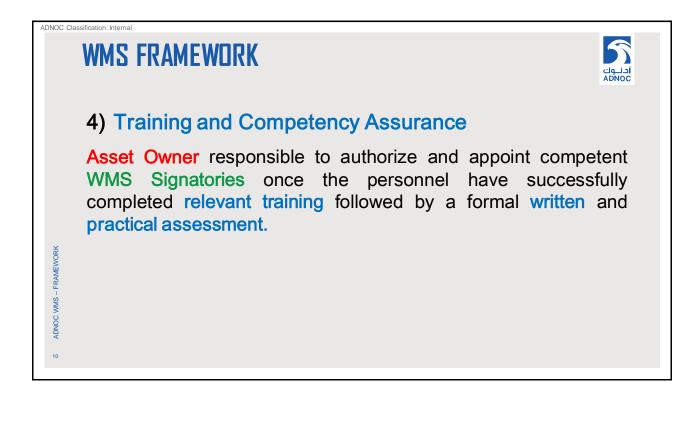


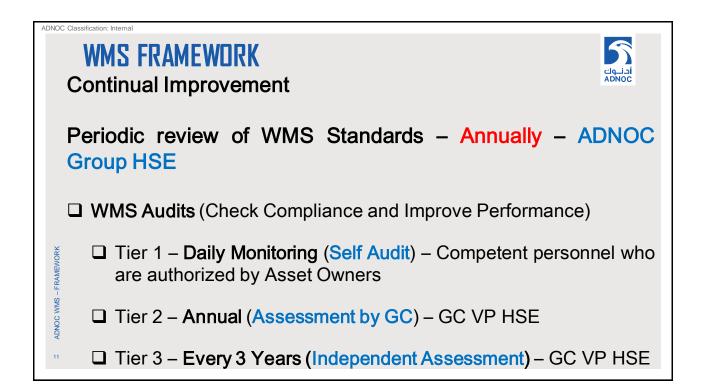


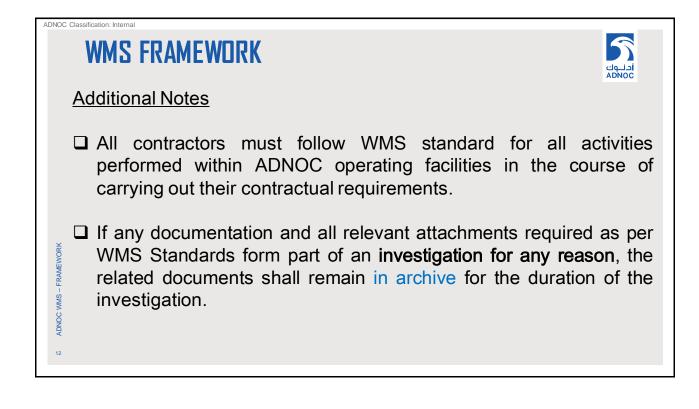
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×		Contractor Responsibilities	
FRAMEWORK		Non-ADNOC facilities / greenfield provisions	
ADNOC WMS -F			
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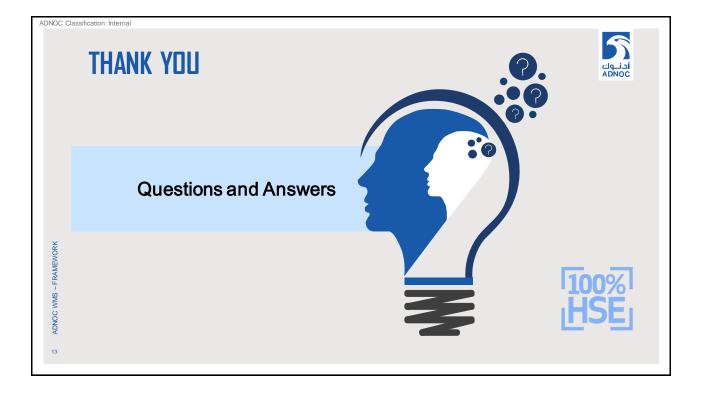


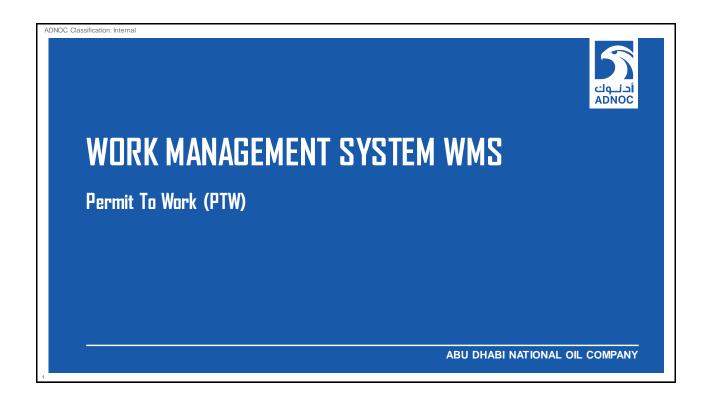




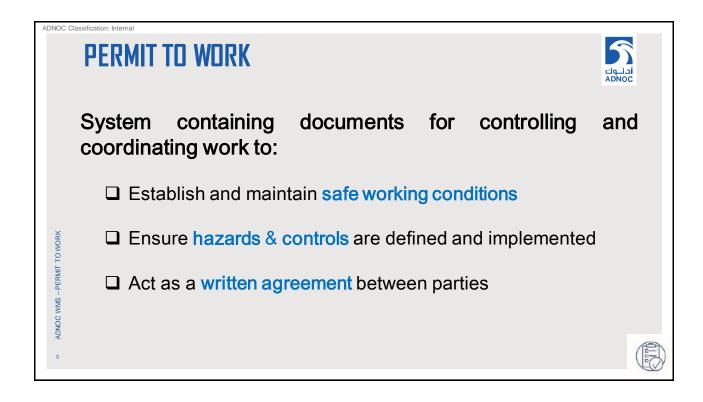


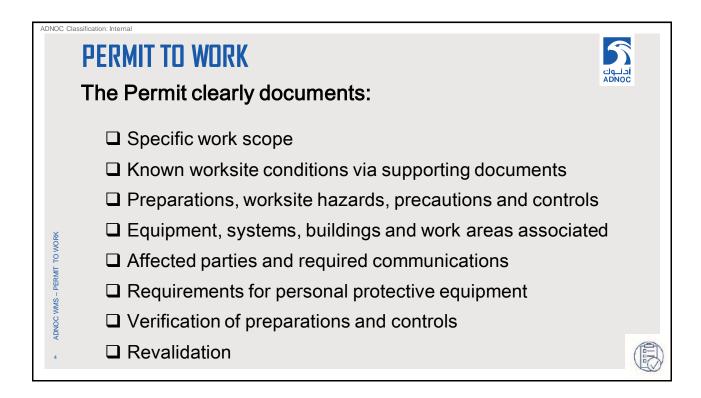




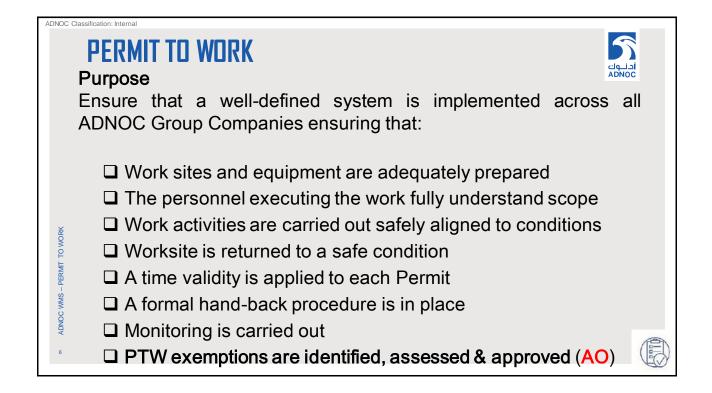


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ADNOC WAS - PERMIT TO WORK	2	<ul> <li>Purpose</li> <li>Scope</li> </ul>	<ul> <li>Framework</li> <li>Process</li> </ul>	
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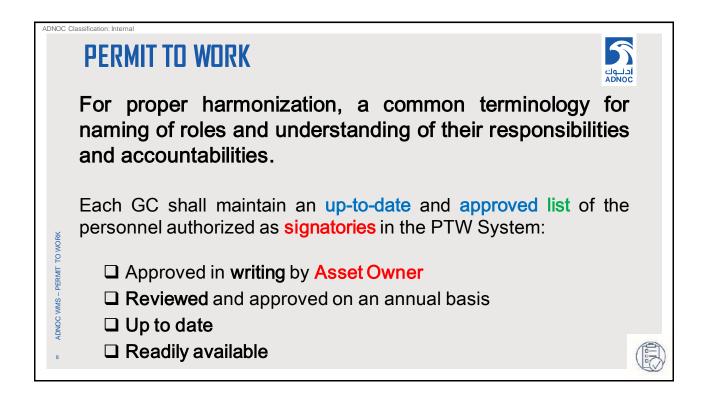




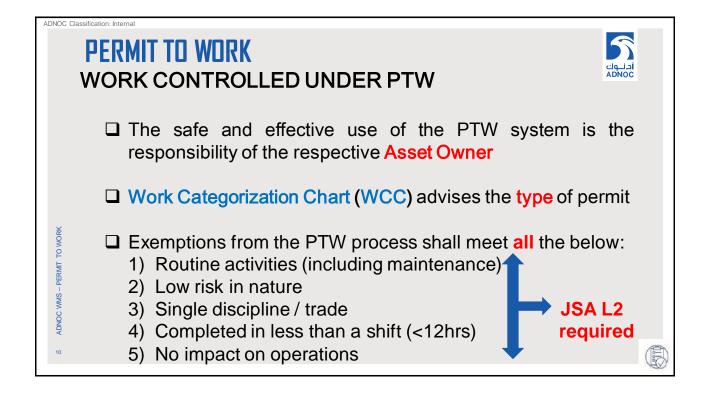
ADNOC Classification: Internal
PERMIT TO WORK
Purpose
Ensure that a well-defined system is implemented across all ADNOC Group Companies ensuring that:
Types of work are clearly defined
Authorized at the appropriate level
Categorized according to types of Permits with Certificates
An appropriate level of planning
Persons are trained and competent
An appropriate level of Job Safety Analysis Appropriate control measures are identified & communicated
Appropriate control measures are identified & communicated
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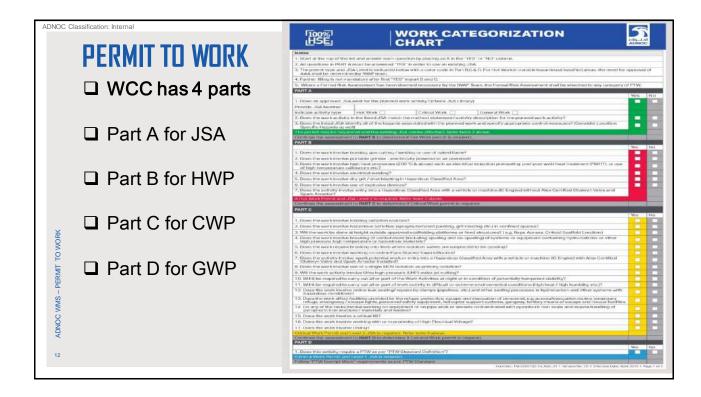
ADNOC C	Bassification: Internal PERMIT TO WORK	أدنيوك
	Scope	ADNOC
	□ Applicability	
	Contractor Requirements and Responsibilities	
OWORK	Non ADNOC Facilities and Greenfield Locations	
IS – PERMIT TO WORK	Alignment (Read in conjunction with other WMS Std)	
ADNOC WMS	Principles (WMS Elements)	
7		



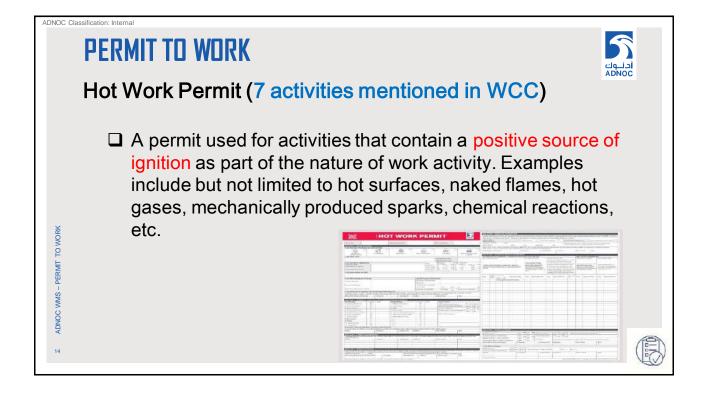




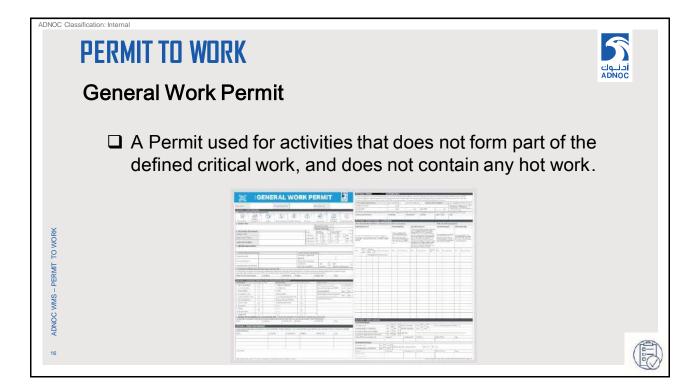
ADNOC C	assification: Internal	
	PERMIT TO WORK	
	Critical Work Permit (17 activities mentioned in WCC)	
	A permit used for critical work activities listed in 'Work Categorization Chart' or identified by the Group Company as Critical or High / High-Medium Risk (as per ADNOC RAM)	
11 ADNOC WWS - PERMIT TO WORK	Spark Potential nature of work in hazardous area will be covered under the Critical Permit	



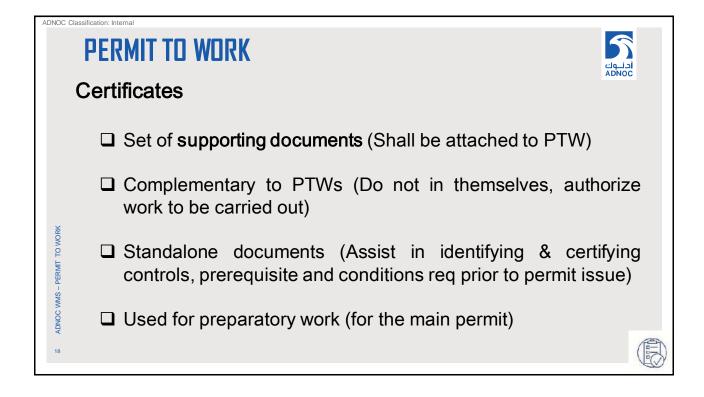
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## PERMIT TO WORK

ADNOC Classification: Internal

ADNOC WMS - PERMIT TO WORK

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ADNOC Classification: Internal

#### **Confined Space Entry Certificate**

□ Any work that requires entry into a confined space or into an area that could become a confined space through a fall in oxygen levels through introduction of harmful airborne contaminants or presents difficulty in rescuing and treating an injured or unconscious person.

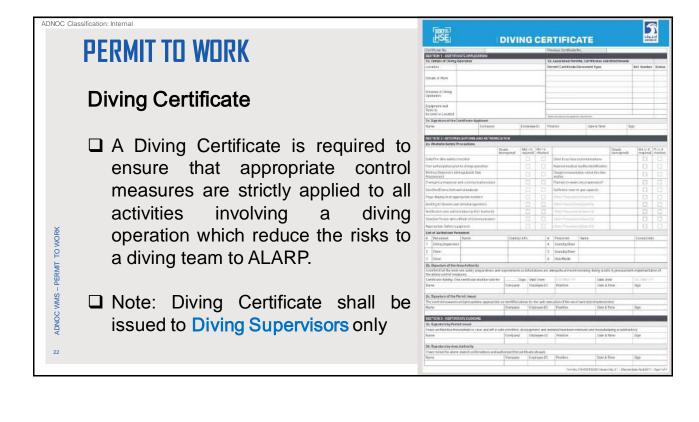
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## PERMIT TO WORK **Excavation Certificate**

- Required whenever breaking into ground (including) drilling) and cutting into floors, walls, or ceilings to specify the precautions needed to protect personnel against collapse of the excavation or the hazards of penetrating/damaging underground cables, pipes or services during excavation work.
- □ If depth is more than 1.2m and W/D <2 is classified as Confined Space
- Note: Excavation Certificate is applicable in all areas (Restricted/Unrestricted)
- ADNOC WMS PERMIT Authorized Civil Personnel Responsible for all excavations onsite and the authorizing signatory for **Excavation Certificates**

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# **PERMIT TO WORK**

ADNOC Classification: Intern:

ADNOC WMS - PERMIT TO WORK

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#### **Ionizing Radiation Certificate**

Ionizing Radiation Certificate is required for all activities that involve handling and/or use of radioactive sources such as Radiography and Radioactivity based process instruments and NORM contaminated waste from process lines/vessels/tanks.

RPO in conjunction with AA need to identify site precautions

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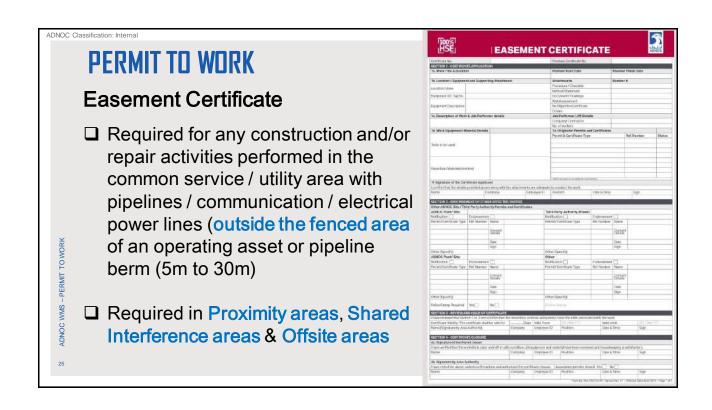
# **PERMIT TO WORK** Atmospheric Test Record Form

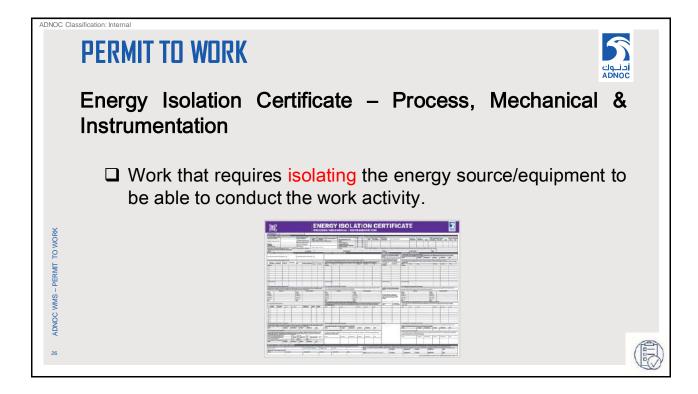
In order to determine the concentration of harmful vapors and/or the adequacy of the oxygen content, periodic or continuous atmospheric testing during the work would be required.

AA determine the frequency of Gas Test

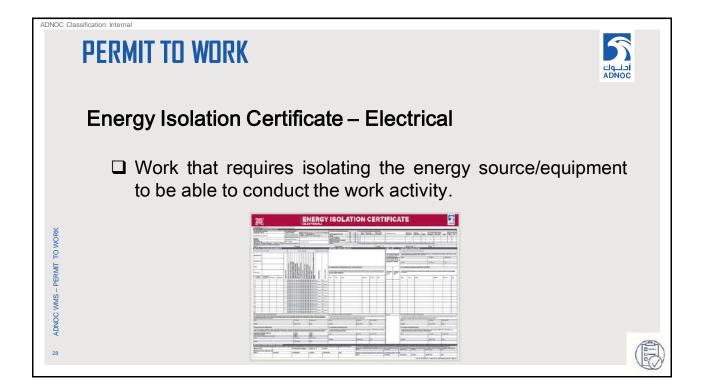
Note: All Efforts shall be made to conduct Atmospheric test within 1 hour prior to the commencement of work



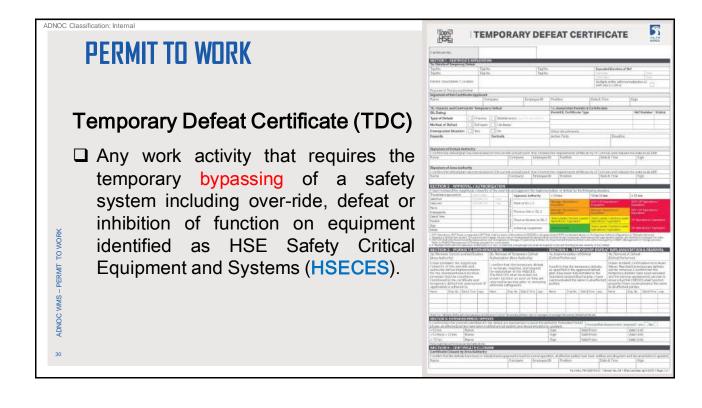




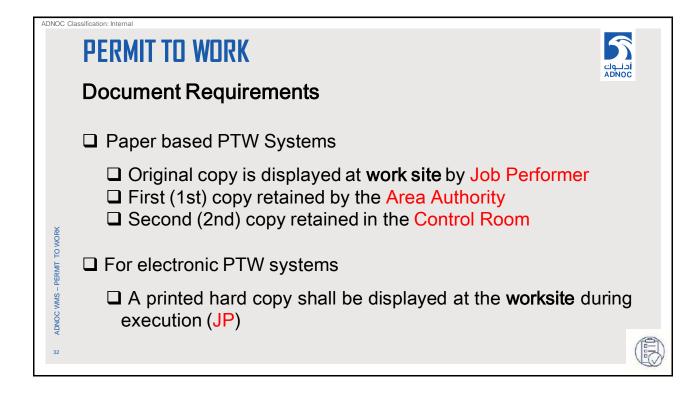
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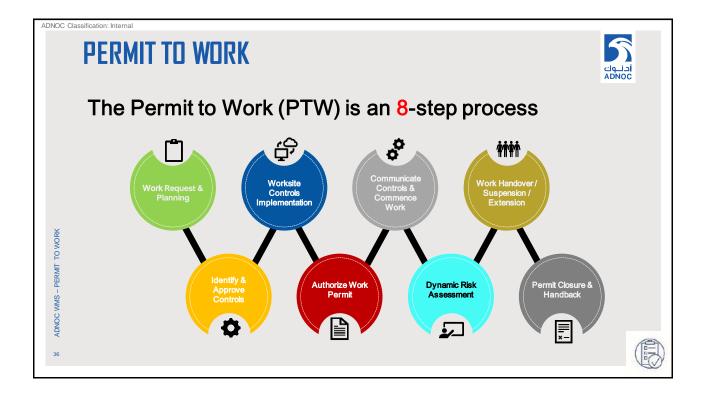
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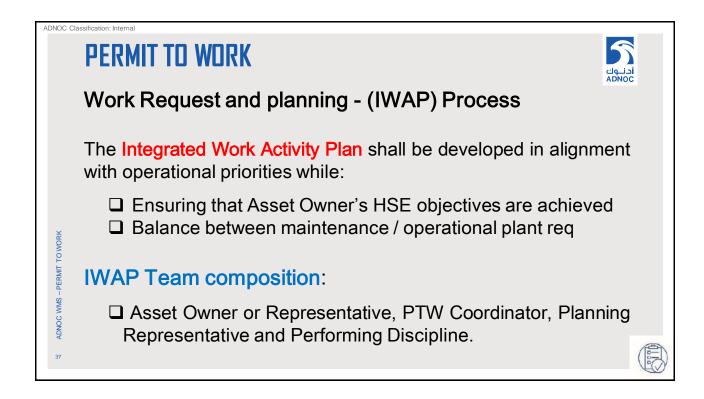


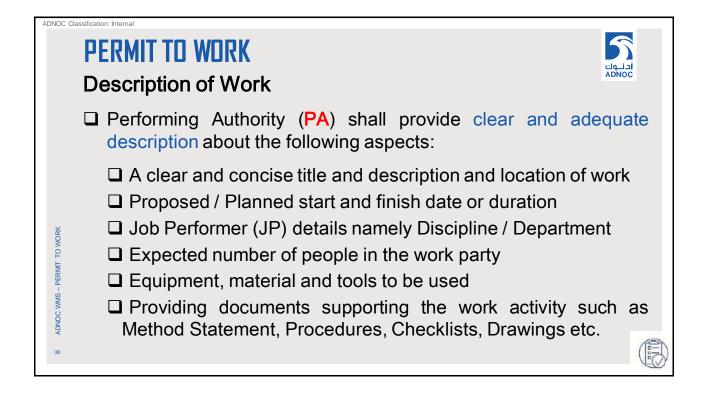
ADNOC Clas	PERMIT TO WOI	RK						
To ensure that precautions required for tasks of a lon duration are reviewed regularly, limits are set on th validity periods of Permits and associated Certificates.								
Type of permits and certificates								
Maximum validity of certificate								
PERMIT TO WORK	Re-validation	n requirements of the pe	rmits and certificates					
- PERMIT	Critical Work Permit	Max. 7 calendar days validity	Revalidated Every Shift					
ADNOC WMS	Hot Work Permit	Max. 7 calendar days validity	Revalidated Every Shift					
NOV 33	General Work Permit	Max. 7 calendar days validity	Revalidated Every Shift					

Certificate Type	Validity	<b>Re-Validation</b>
Confined Space Entry (CSE)	Specified by Area Authority (AA)	Every Shift
Atmospheric Test Record Form	Not Applicable	Not Applicable
Vehicle and Machine Entry	Specified by Area Authority (AA)	Not Applicable
Diving	Specified by Area Authority (AA)	Not Applicable
Excavation	Specified by Area Authority (AA)	Not Applicable
Ionizing Radiation	Specified by Area Authority (AA)	Every Shift
Road Closure	Specified by Area Authority (AA)	Not Applicable
Easement	Specified by Area Authority (AA)	Not Applicable
Energy Isolation	Not Applicable	Not Applicable
Temporary Defeat	Defeat Approval Authority (DAA)	Not Applicable

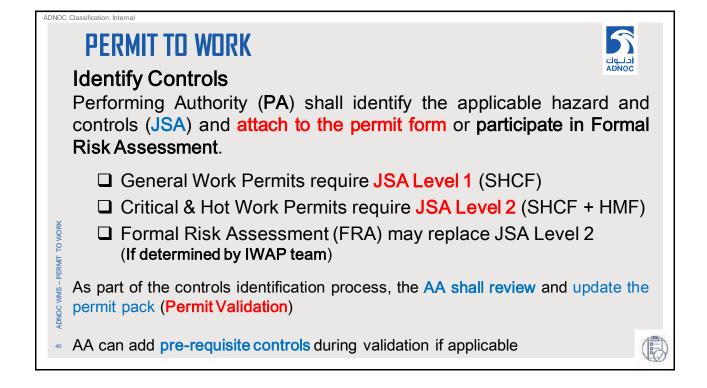
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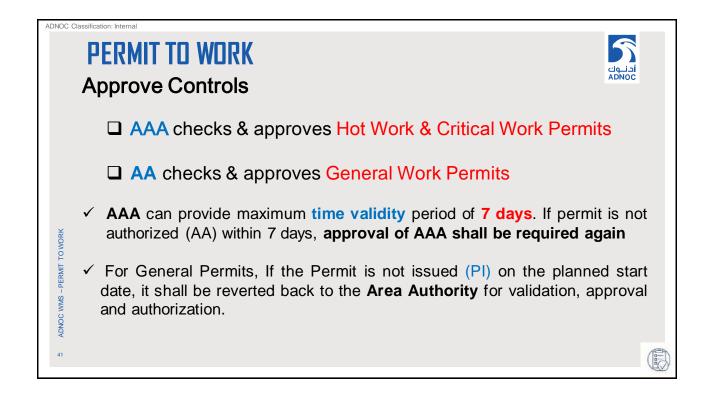


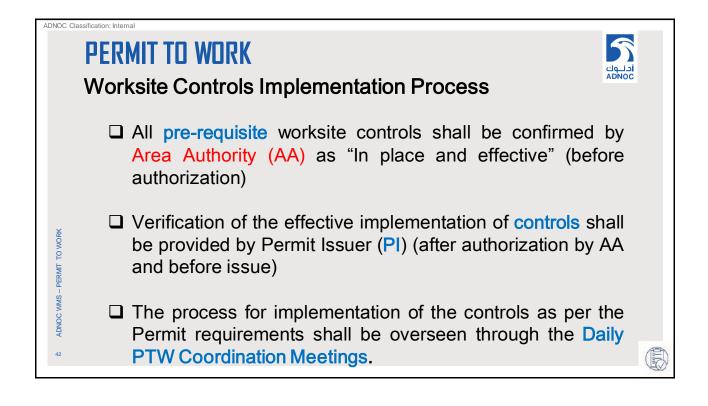


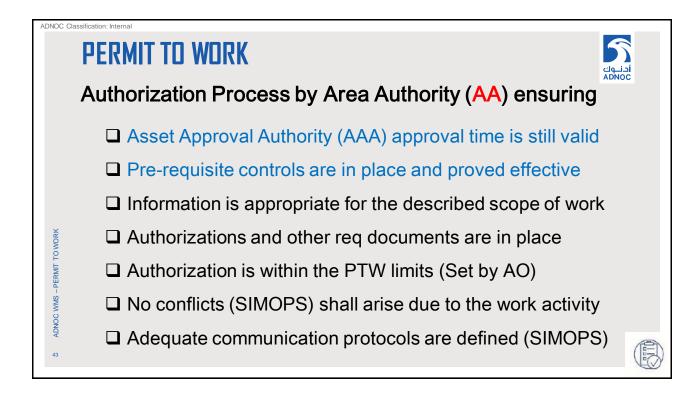


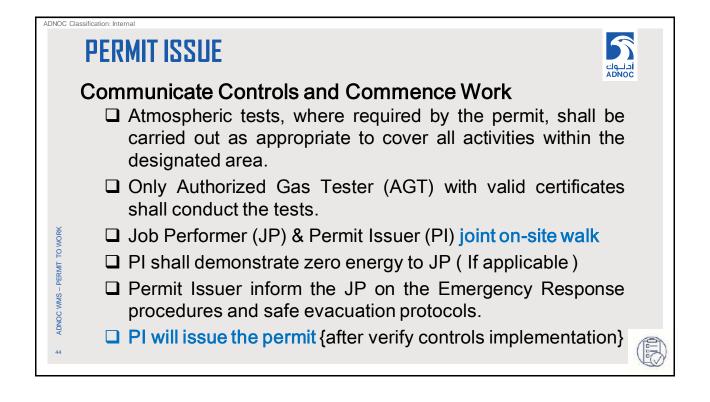
A	ADNOC Classification: Internal
	Initial Job Analysis (IWAP Team)
	Proposed work scope shall be classified according to the nature of work activity utilizing 'Work Categorization Chart'. The Initial Job Analysis shall be used to determine:
	PTW with Type or PTW Exempted
	□ JSA (Level 1 or Level 2) or Formal Risk Assessment
	Permit type to be raised
	<ul> <li>Permit type to be raised</li> <li>Nature of the work activity</li> <li>Supporting certificates / documents and signatories</li> </ul>
	<ul> <li>Identification for need of isolations &amp; temporary defeats</li> <li>After IWAP meeting PA Request for permit</li> </ul>
	After IWAP meeting PA Request for permit
	» Note: All permits must be requested by PA at least 24hrs before work start



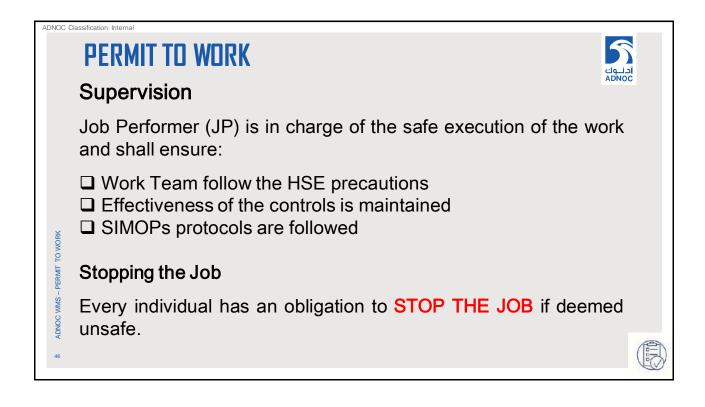




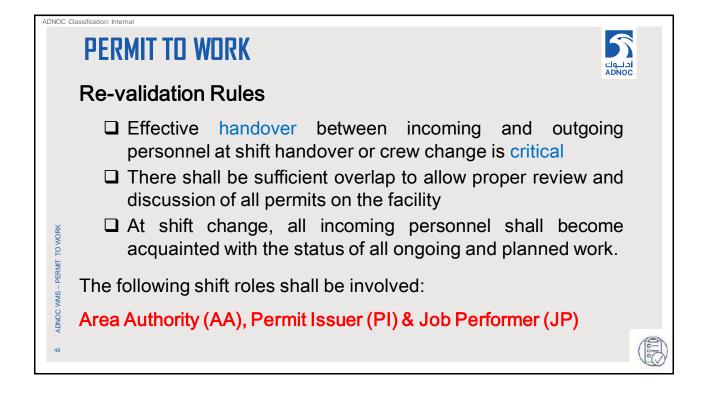


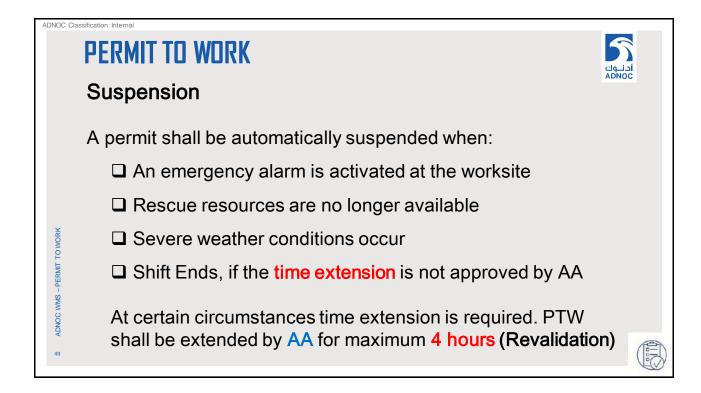


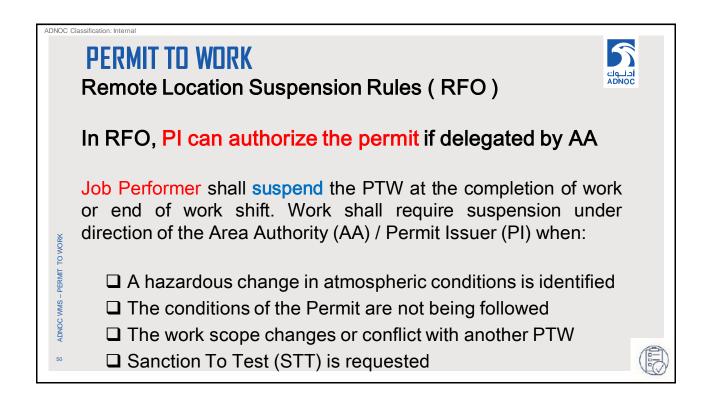
AD	NOC Classification: Internal	
	PERMIT TO WORK	
	Communicate Controls and Commence Work	
	<ul> <li>The Job Performer (JP) shall:</li> <li>Sign and accept the worksite</li> <li>Adhere to all the worksite requirements</li> <li>Communicate via a Tool Box Talk (TBT)</li> </ul>	
	The work party shall be advised of and understand:	
	<ul> <li>The work party shall be advised of and understand.</li> <li>The work content, environment and controls</li> <li>The potential hazards and controls required</li> <li>Any emergency actions</li> <li>Work party responsibilities.</li> </ul>	
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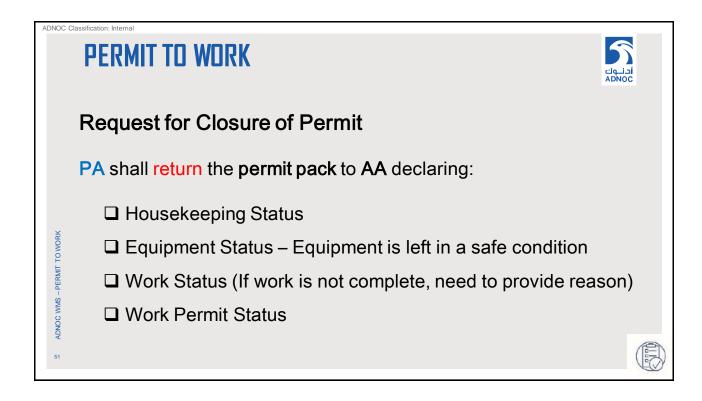


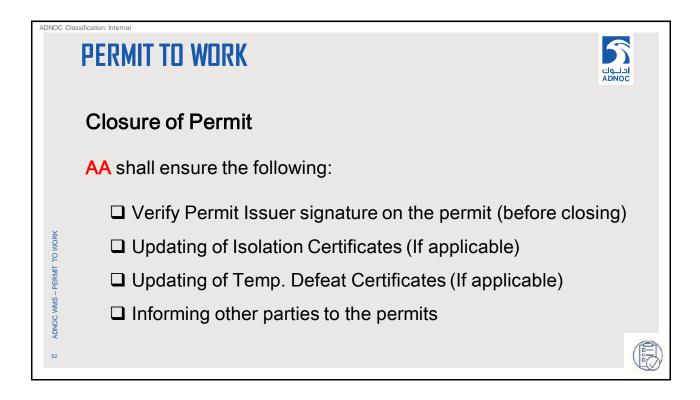
ADNO	C Classification: Internal PERMIT TO WORK	
	Cancellation Rules	ADNOC
	<ul> <li>In certain circumstances or emergencies it may appropriate to cancel the permit</li> <li>A full re-assessment of work conducted in the affected ar to ensure that conditions have not altered</li> </ul>	
S - PERMIT TO WORK	activity shall require a new permit with all the relevant approvals	
47 ADNOC WWS	AA at his discretion shall be authorized to suspend/cancel t permit as deemed necessary	he



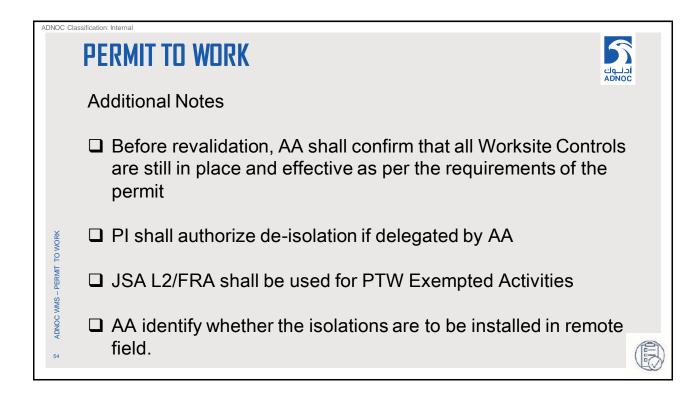


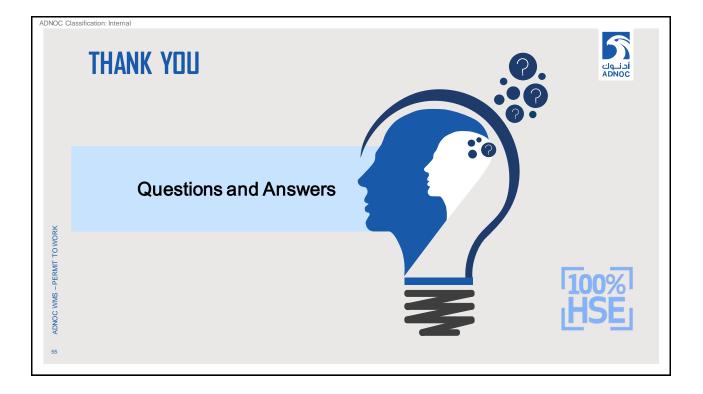


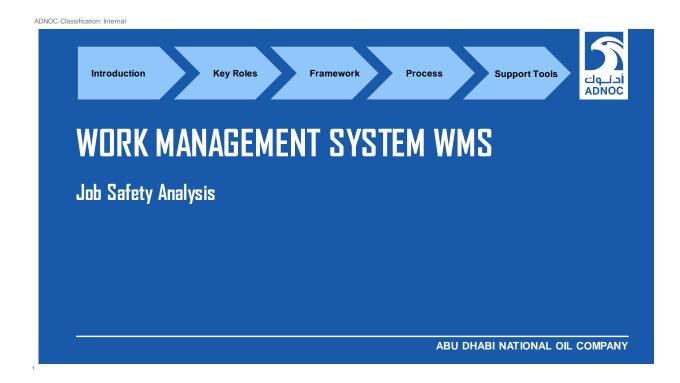




ADNOC Classification: Internal	
PERMIT TO WORK Additional Notes	
For complex and critical activities, a site visit by AA is recommended	
Permissible Gas Values	
<ul> <li>O2 {20.9%} {19.5% O2 Min23.5% O2 Max}</li> <li>LEL = &lt;5% of LEL</li> <li>H2S = &lt;5ppm</li> <li>CO = &lt;25ppm</li> <li>SO2 = &lt;2ppm</li> <li>NU2 = &lt;25ppm</li> </ul>	
<sup>™</sup> NH3 = <25ppm	E







ADNOC Class	sification: Internal			
	JOB SAFETY AN	ALYSIS		
SIS	ž I	Purpose	Key Roles	
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ADNOC WMS - JOB SAFETY ANALYSIS			Process	
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ADNOC WMS - JOB SAFETY ANALYSIS

## **JOB SAFETY ANALYSIS**

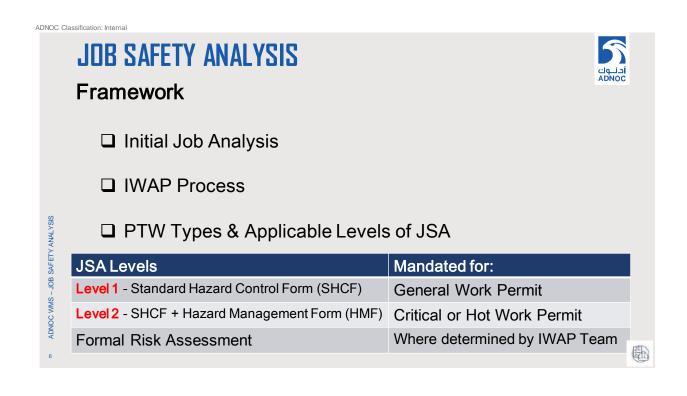




- The purpose of the JSA Standard and process is to establish mandatory requirements for conducting Job Safety Analysis prior to commencement of work (using ADNOC PTW system) in areas under control of ADNOC and its group companies.
- □ JSA is carried out to ensure that content and location of a work scope are clearly defined, potential hazards of the work site & each of the tasks or activities to be performed are identified, the significance of hazards is adequately assessed & sufficient control measures are defined to reduce the risks to ALARP







ANALYSIS

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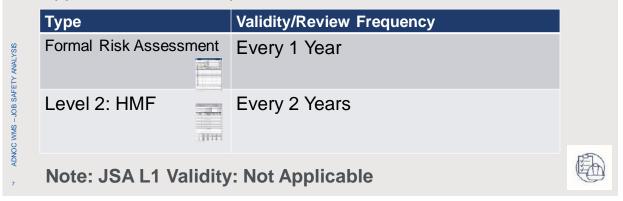
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ADNOC WMS

## JOB SAFETY ANALYSIS Document Library



All JSAs are subject to periodic **review** to ensure they are still applicable, **valid** and up-to date



# **JOB SAFETY ANALYSIS**

□ JSA Level 1: Standard Hazard Control Form (SHCF)

## Contents (JSA L1)

- 1) PPE Requirements
- 2) Applicable LSR
- 3) Applicable hazards (aligned with work scope) and required controls



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ADNOC WMS - JOB SAFETY ANALYSIS

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## **JOB SAFETY ANALYSIS**

□ JSA Level 2:

Hazard Management Form (HMF)

- Contents of JSA L2
- 1) Major work steps
- 2) Applicable hazards (aligned with work scope) and its location
- 3) Required controls

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ADNOC WMS - JOB SAFETY ANALYSIS

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## **JOB SAFETY ANALYSIS**

### Formal Risk Assessment (FRA)

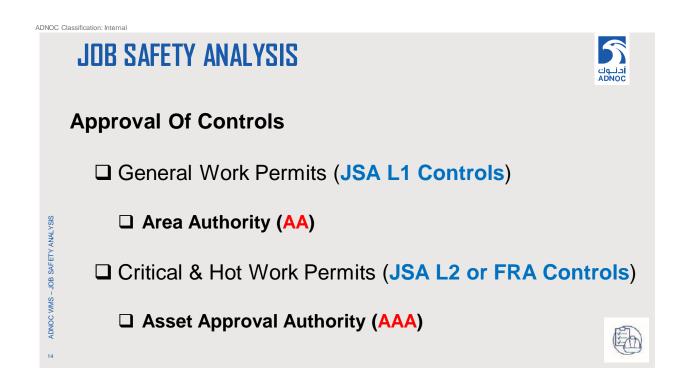
Always consist of, at least, two individuals

Initial Risk Level	RA Team Composition
Low	<ul> <li>Performing Authority (PA) or PA Supervisor</li> <li>Asset Owner Rep. (Area Authority or his rep.)</li> </ul>
Medium	<ul> <li>Performing Authority (PA) or PA Supervisor</li> <li>Asset Owner Rep. (Area Authority or his rep.)</li> </ul>
High	<ul> <li>Performing Authority (PA) or PA Supervisor</li> <li>Asset Owner Rep. (Area Authority or above)</li> <li>HSE Representative</li> <li>Affected Parties (as applicable)</li> <li>Fire &amp; Rescue Supervisor (as applicable)</li> <li>Other Specialists (as applicable)</li> </ul>



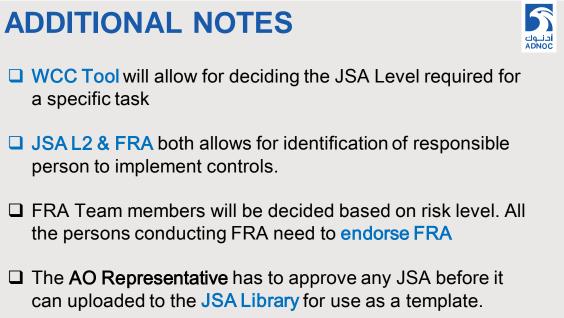


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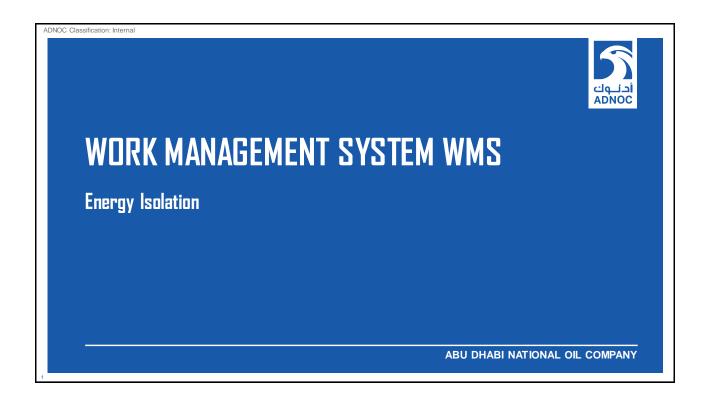


ADNOC WMS - JOB SAFETY ANALYSIS

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ADNOC Classification: Internal	A			
ADNOC WMS -ENERGY BOLATION		<ul> <li>Introduction</li> <li>Purpose</li> <li>Scope</li> </ul>	<ul> <li>Key Roles</li> <li>Framework</li> <li>Process</li> </ul>	

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# **ENERGY ISOLATION**

#### Purpose

ADNOC Classification: Internal

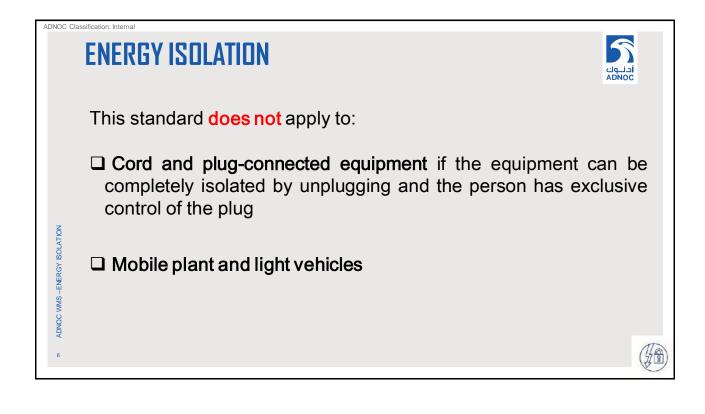
ADNOC WMS -ENERGY ISOLATION

The Energy Isolation Standard and process provides a **detailed description** of the Safe Isolation / De-Isolation and guidelines on Lock Out - Tag Out Processes for use on all ADNOC Operational Facilities. The Standard sets out:

Compliance with applicable Statutory / Legal requirements and Regulations, Codes of Practice and ADNOC Standards; and

Ensuring risks associated with exposure to hazardous energy sources are as low as reasonably practicable (ALARP)

AD	DNOC Classification: Internal
Π	ENERGY ISOLATION
	SCOPE The requirements of the Energy Isolation Standard shall be applicable to:
	<ul> <li>All ADNOC group companies</li> <li>Employees</li> <li>Contractors</li> <li>Facilities (including interface areas)</li> <li>Activities</li> <li>Services and products</li> </ul>
	Contractors shall be responsible for ensuring that all activities performed within ADNOC operating facilities.



## **ENERGY ISOLATION**

ADNOC Classification: Interna

ADNOC WMS -ENERGY ISOLATION

ADNOC Classification: Internal

ADNOC WMS -ENERGY ISOLATION



#### **Roles and Responsibilities**

The ultimate success of isolation process depends on the competence and awareness of the people carrying out the activities. If they do not have a sound understanding of permit or isolation requirements and their own responsibilities, the system will have a limited effect on maintaining a safe operation and preventing accidents.

Please use and read this standard in conjunction with other WMS Standards.

## **ENERGY ISOLATION**

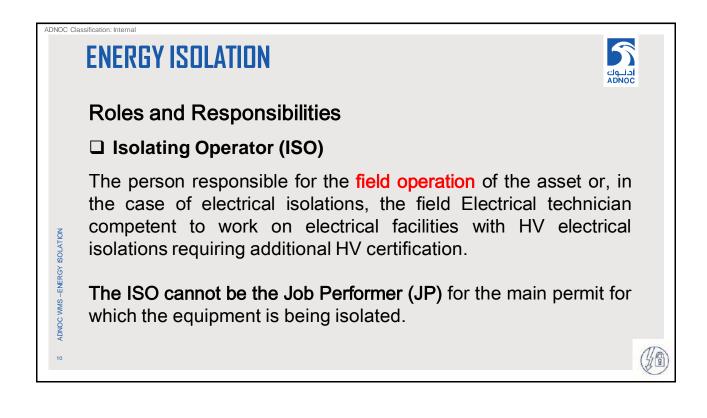
#### **Roles and Responsibilities**

#### □ Area Authority (AA)

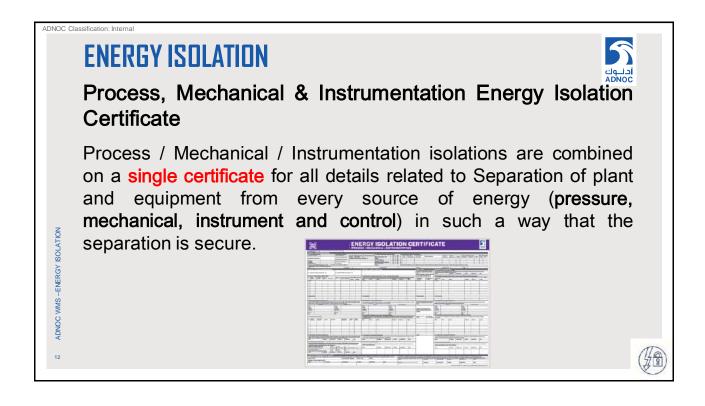
**Approves** all IC isolation points to be implemented regardless of discipline after being consulted by the relevant discipline **Isolation Authorities (ISA)**.

AA has **overall responsibility** for ensuring that all IC isolation points have been properly implemented, their integrity checked, "**zero energy**" tested and confirmed and that this is correctly certified (by Isolation Operators) in the IC documentation prior to commencement of intrusive work

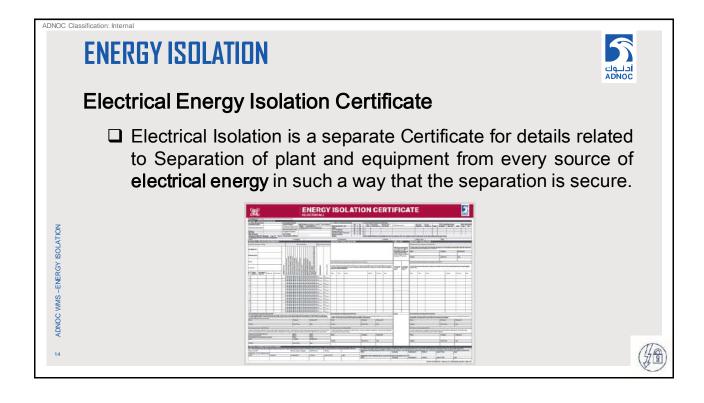
AI	DNOC CI	ENERGY ISOLATION
		Roles and Responsibilities
		Isolating Authority (ISA)
	Z	A person with overall responsibility for ensuring correct implementation of, and certification for, isolations being applied prior to intrusive work.
	ADNOC WMS -ENERGY ISOLATION	An Isolating Authority (ISA) is a competent person with detailed knowledge of facilities in an asset. This role develops the <b>isolation requirement</b> corresponding to their discipline.
	ADNOC V	ISA can act in the capacity of ISO to install isolations if required.
	9	(Here)



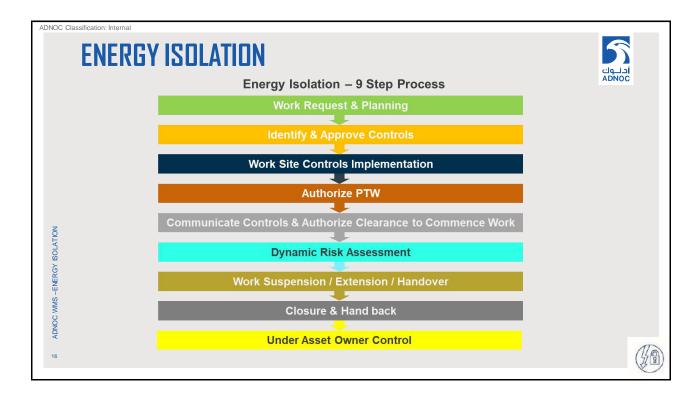
	ADNOC Cla	ENERGY ISOLATION	í
		Framework	
		Isolation / de-isolation requirements will be documented in an Energy Isolation Certificates (ICs) with all necessary supporting documentation and information attached detailing:	
	NOI	Full description of the types of isolation required with markup	
	-ENERGY ISOLATION	Unique identification name / number	
		Method & Sequence of isolation of a particular isolation point	
	ADNOC WMS	Zero Energy Verification requirements	
	11	Provision of Independent Verification of Isolations.	
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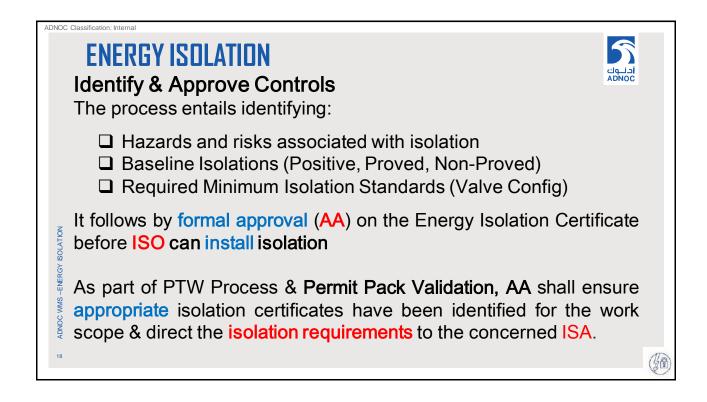
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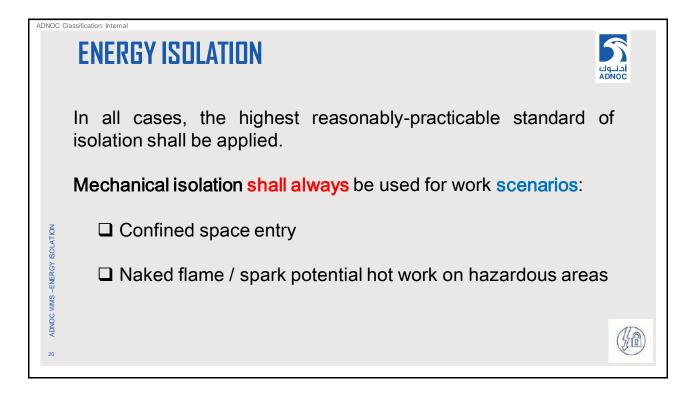
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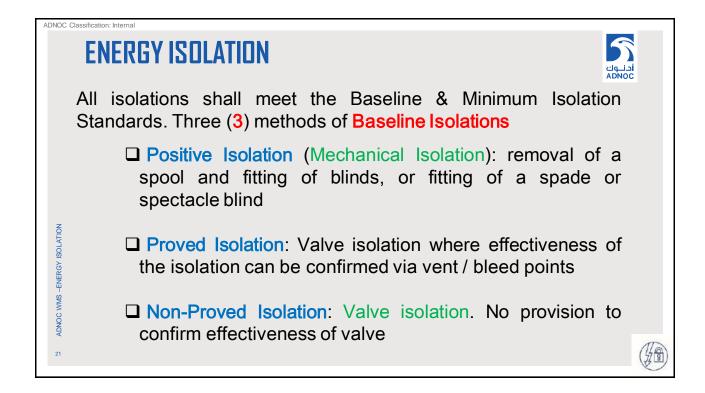


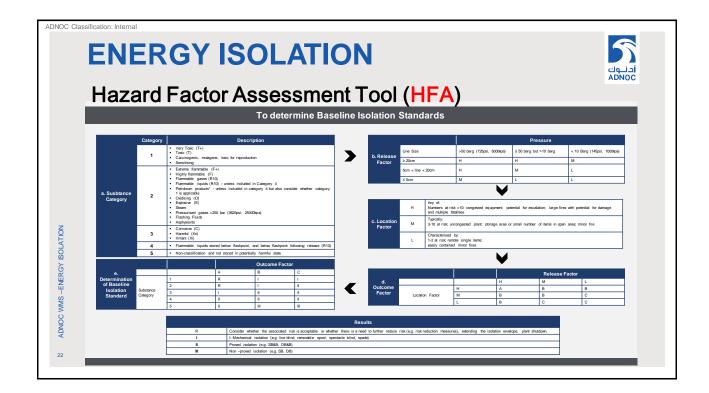
ADNOC Classification: Internal	
ENERGY ISOLATION	
The Integrated Work Activity Planning (IWAP) process includes review of the scope of work requests received and identify whether isolations are required for safe execution of work. If the work activity requires isolations to be in place, the scope of isolations shall be defined which includes:	d of
<ul> <li>System / Equipment to be isolated</li> <li>Location of isolation</li> <li>Reason for isolation</li> <li>Properties of hazardous materials involved</li> </ul>	
17	



ADNOC	Classification: Internal ENERGY ISOLATION	
	Hazard Identification and JSA (For Isolation Requirement)	
	This step requires conducting a JSA to implement isolation requirements and a corresponding de-isolation requirements to return the equipment to the de-isolated state. The JSA should cover all stages of the isolation activity as follows:	)
ISOLATION	Preparatory work for the isolation	
6 ADNOC WMS -ENERGY	Installation / removal and proving of the isolation	
	The integrity of the isolation during intrusive work	
	Requirements for testing and reinstatement of plant	







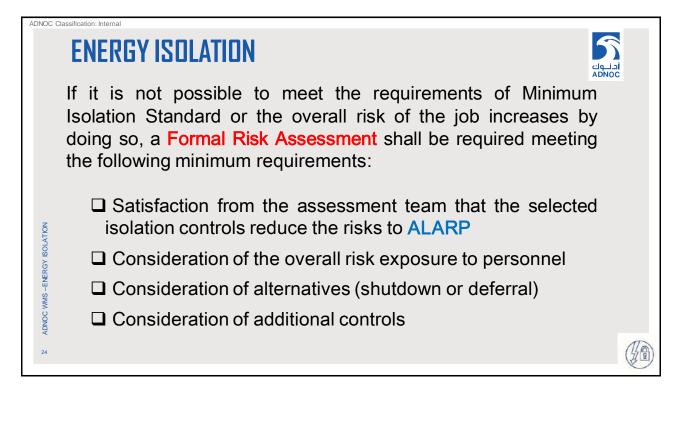
# **ENERGY ISOLATION**

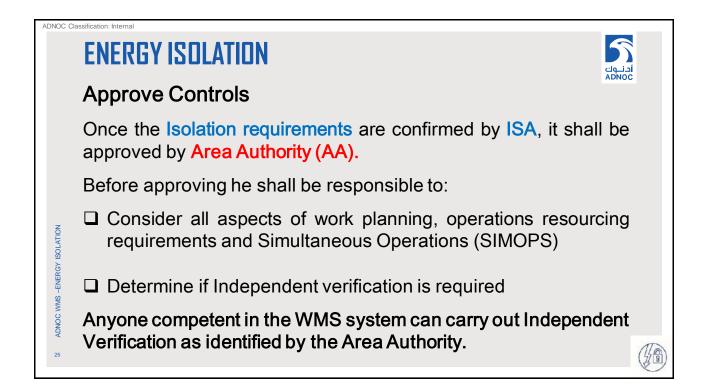


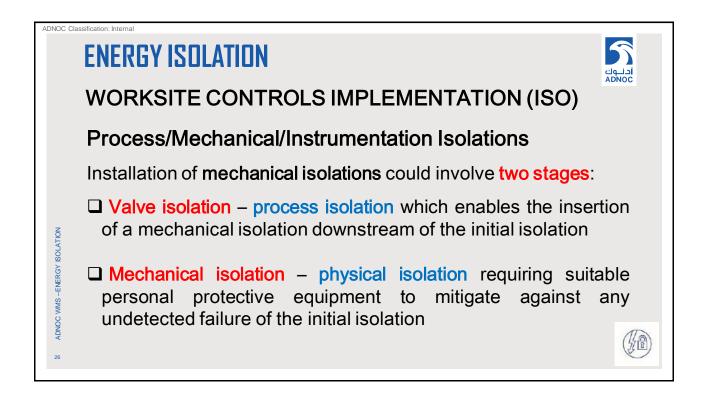
Minimum Isolation Standards

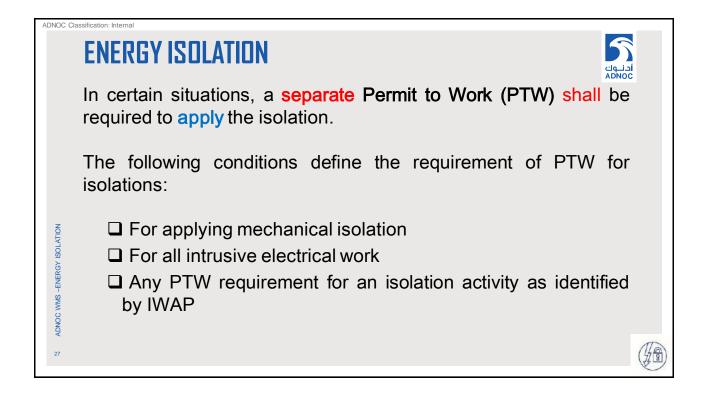
Valve Configuration to achieve Positive (Mechanical) & Proved Isolation depending on the fluid and pressure ratings

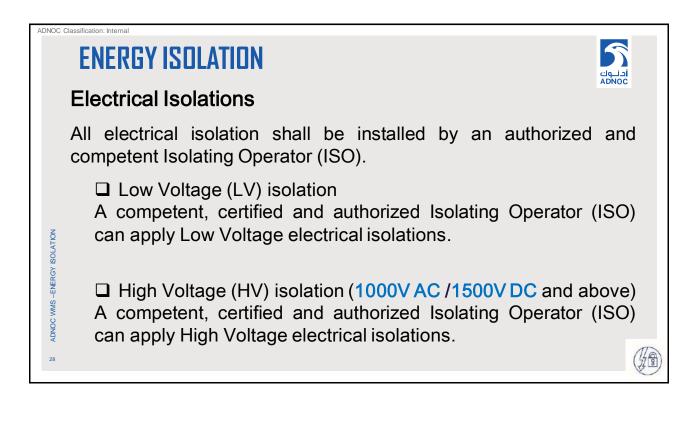
	Substance Category	Fluid	Design Pressure	Valve to Install Positive Isolation	Valve to Work without Positive Isolation
		Toxic Fluids	Pressures up to ANSI Rating Class 150	Single block and bleed	Single block and bleed
	1		Pressures at ANSI Rating Classes 300 and 600	Single block and bleed	Double block and bleed
			Pressures at ANSI Rating Classes 900 and above	Double block and bleed	Double block and bleed
		Fuel Gas Hydrocarbon Liquids	Pressures up to ANSI Rating Class 150	Single block and bleed	Single block and bleed
	2	Hydrocarbon Liquids Hydrocarbon Gas Nitrogen (Asphyxiants) Diesel	Pressures at ANSI Rating Classes 300 and 600	Single block and bleed	Double block and bleed
			Pressures at ANSI Rating Classes 900 and above	Double block and bleed	Double block and bleed
		Chemicals	Pressures up to ANSI Rating Class 150	Single block and bleed	Single block and bleed
	3		Pressures at ANSI Rating Classes 300 and 600	Single block and bleed	Double block and bleed
-ENERGY			Pressures at ANSI Rating Classes 900 and above	Double block and bleed	Double block and bleed
	4	Flammable liquid and gas below flashpoint	Pressures up to ANSI Rating Class 150	Single block and bleed	Single block and bleed
			Pressures at ANSI Rating Classes 300 and 600	Single block and bleed	Double block and bleed
ADNOC WMS			Pressures at ANSI Rating Classes 900 and above	Double block and bleed	Double block and bleed
	5	Service Water Potable Water Firewater Injection Water Instrument Air Plant Air	Pressures up to ANSI Rating Class 600	Single block and bleed	Single block and bleed
	3		Pressures at ANSI Rating Classes 600 and above	Double block and bleed	Double block and bleed

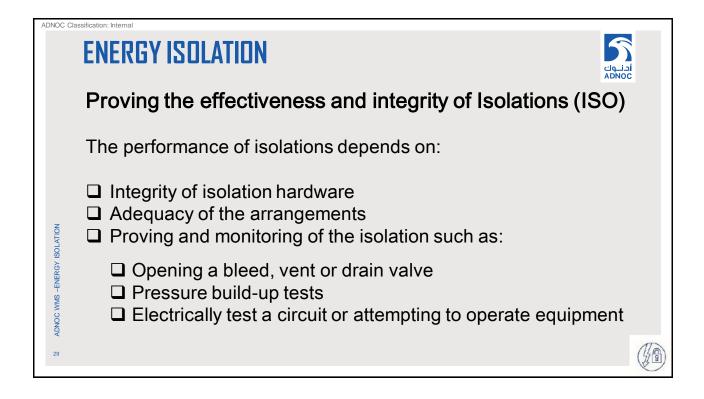


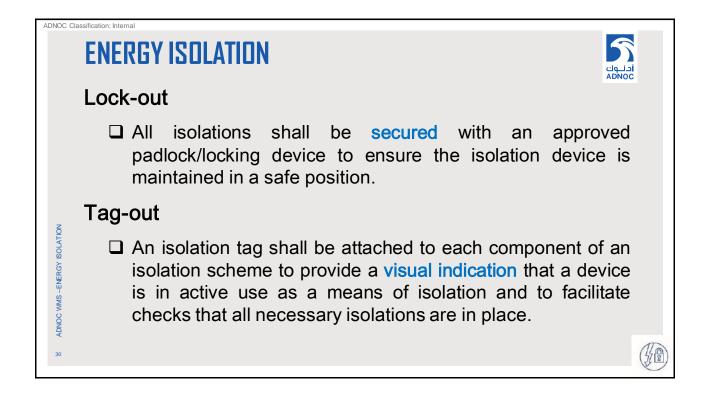


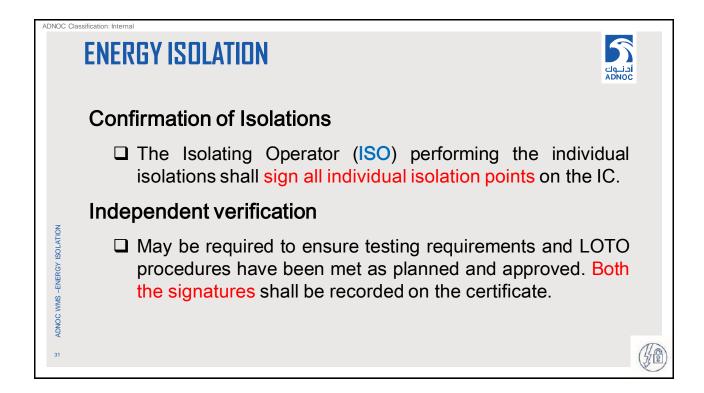


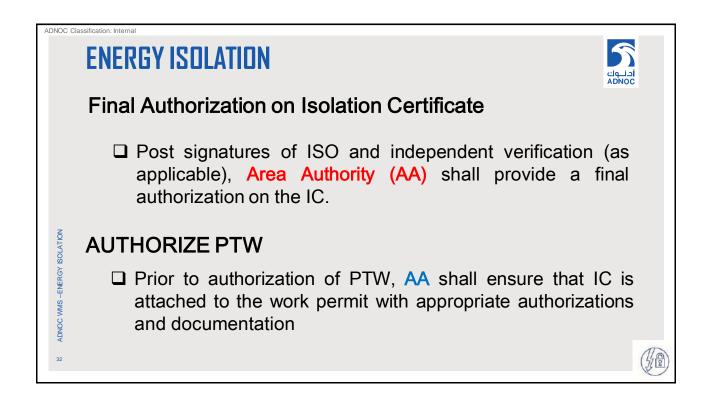


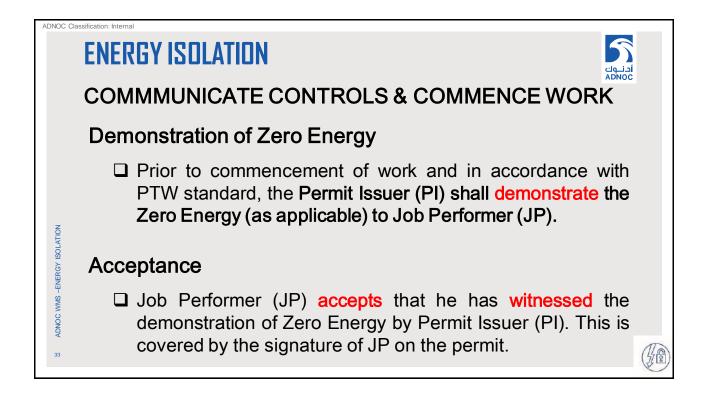


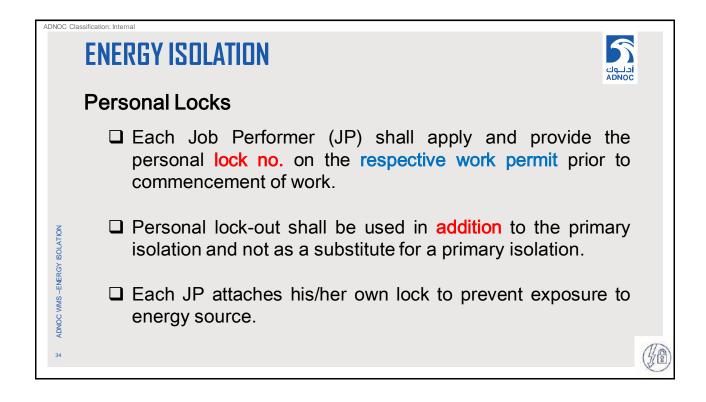




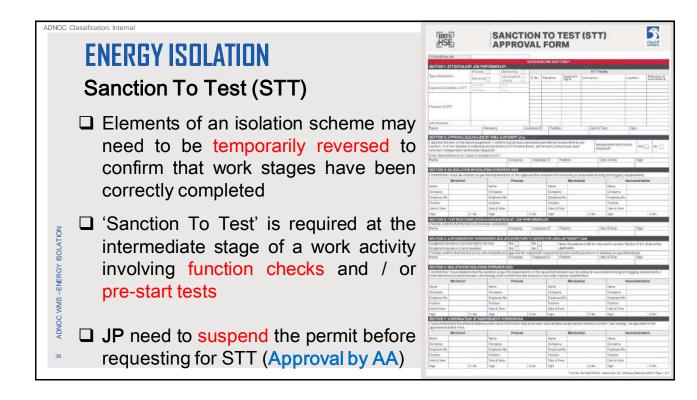


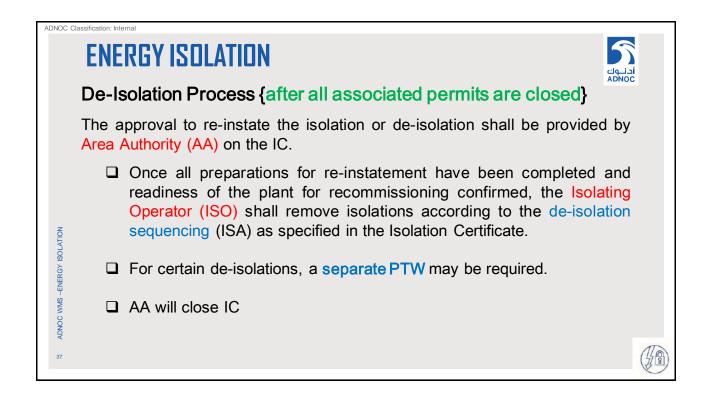


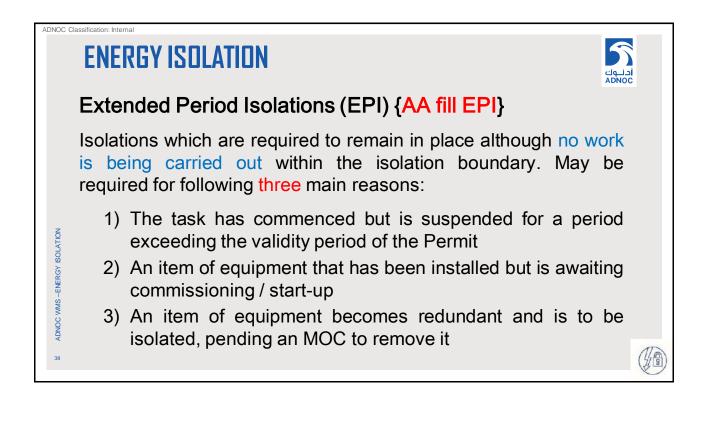




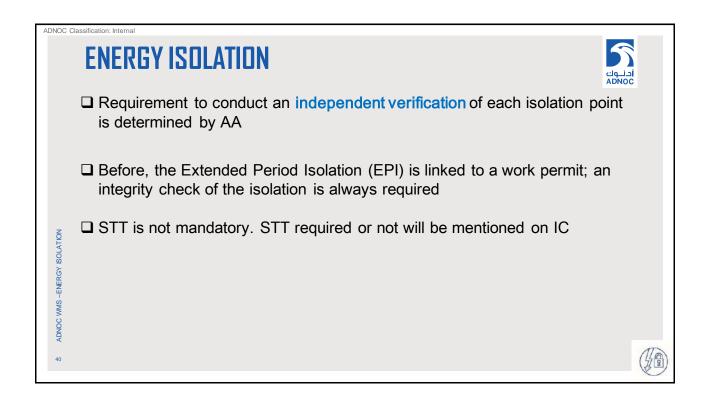
ADNOC Classification: Internal	
ENERGY ISOLATION	
Dynamic Risk Assessment Process	ADNOC
It is important to monitor the integrity of isolation for any changes that might prevent the job completed safely.	
Dynamic Risk Assessment is defined as the process of identifying hazards and assessing risk to changing circumstances of an operational followed by taking action to eliminate or reduce red	ks arising due I environment
<ul> <li>✓</li> <li>35</li> </ul>	

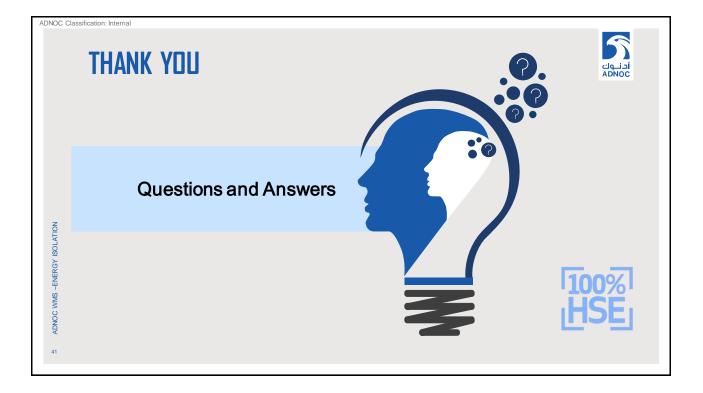


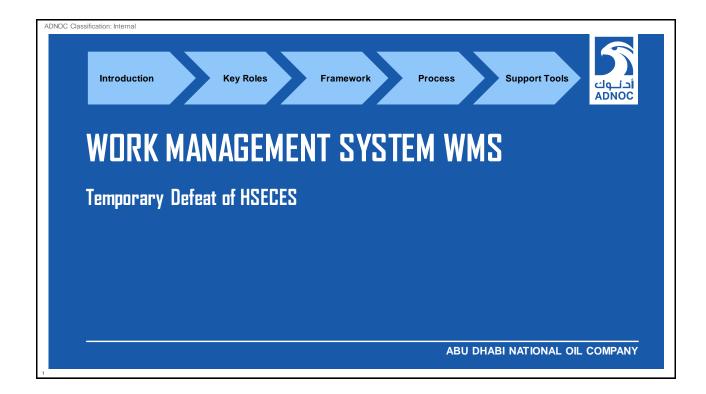


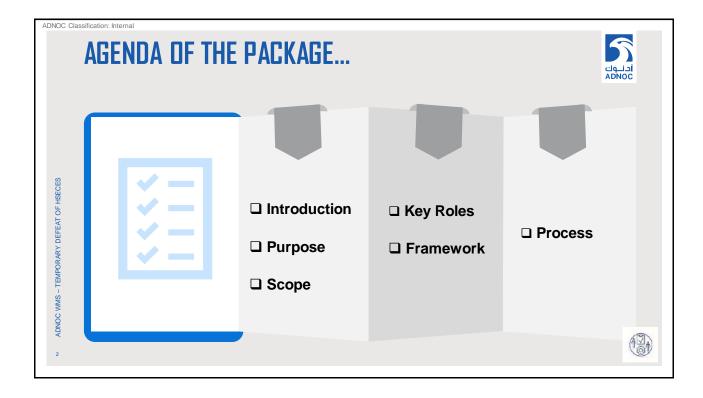


ADNOC	Classification: Internal	
	ENERGY ISOLATION	
	As per WMS Standard: Energy Isolation	
NOI	<ul> <li>All isolations shall be recorded in the Isolation Register</li> <li>All GC shall utilize their Group Company specific LOTO standards during isolation</li> <li>All Extended Period Isolations shall require a periodic review and integrity check</li> </ul>	
ADNOC WMS -ENERGY ISOLATION	While determining the isolation requirements for a particular isolation, the Isolating Authority (ISA) shall utilize Hazard Factor Assessment (HFA) tool to determine Baseline Isolation Standards. The ISA shall also ensure result of baseline isolation standard meets the Minimum Isolation Standards	
39		

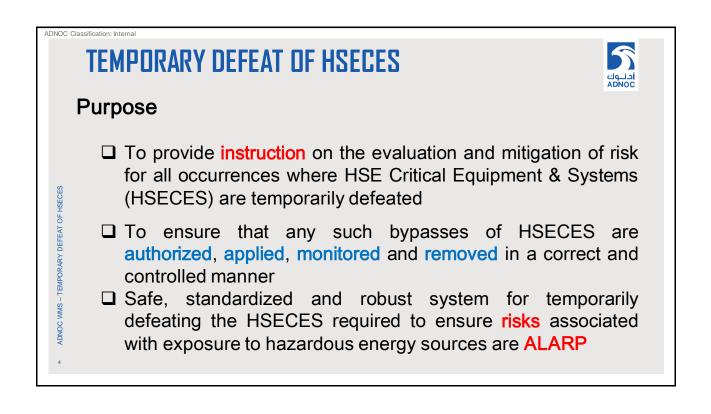




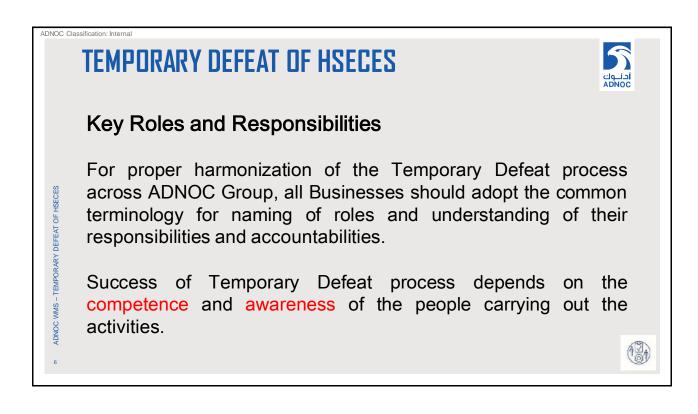


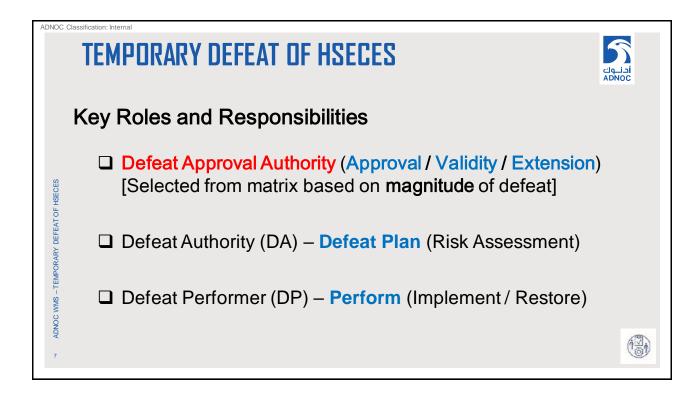


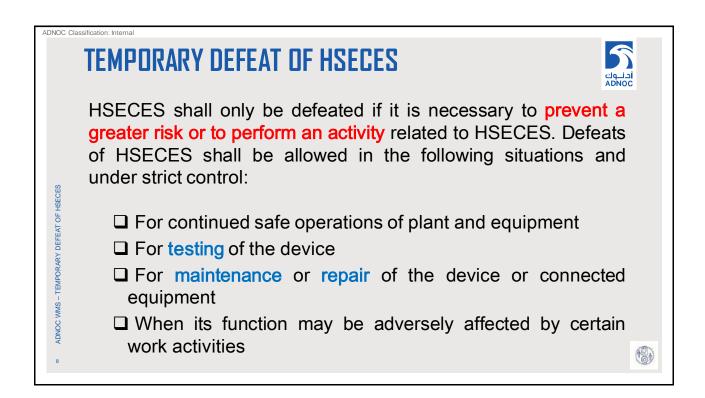
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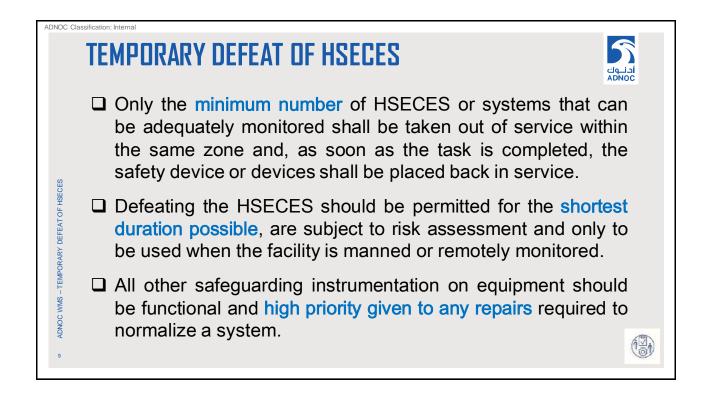


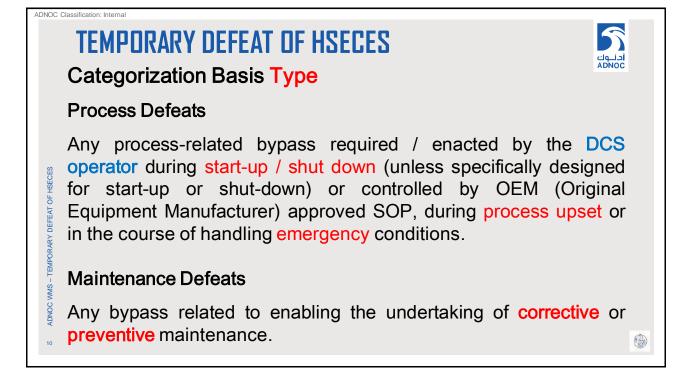
ADNOC	C Classification: Internal TEMPORARY DEFEAT OF HSECES	
	Scope	
	Applicability	
OF HSECES	Contractor Responsibilities	
- TEMPORARY DEFEAT OF HSECES	Implementation (Adherence to all other WMS Standards)	
IS - TEMPOR	Principles (WMS Elements)	
ADNOC WMS		
5		



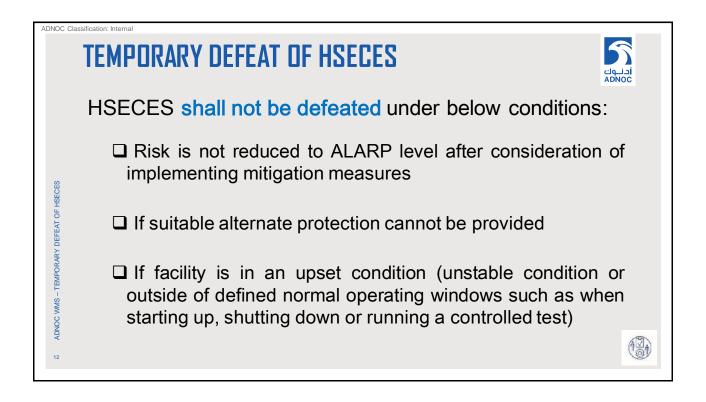


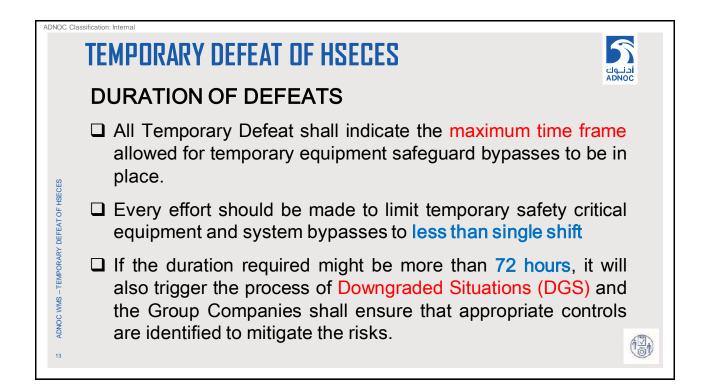


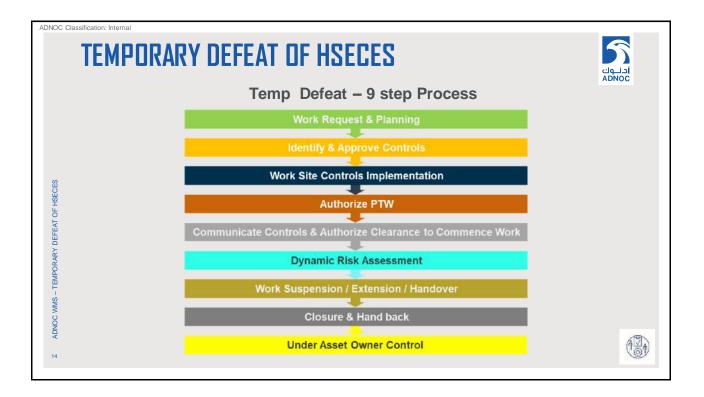




ADNOC Classification: Internal	
TEMPORARY DEFEAT OF HSECE	
Categorization Basis Duration 1) Temporary Bypasses / Defeats	
Temporary Defeats or bypasse to allow certain work to unnecessary shutdown or inter	proceed without causing
2) Extended Period Defeats (EPD)	
<ul> <li>unnecessary shutdown or inter</li> <li>2) Extended Period Defeats (EPD)</li> <li>Expected to remain in place be approval</li> </ul>	eyond the planned duration of
3) Permanent Defeats	
As part of engineered changes	to operating facilities (MOC)







ADNOC C	TEMPORARY DEFEAT OF HSECES	
	Integrated Work Activity Planning Process (IWAP)	
	Identification of the safeguarding function	
HSECES	lacksquare Identifying any existing defeats in the same area / facility	
ADNOC WMS - TEMPORARY DEFEAT OF HSECES	Identification of all equipment temporarily unprotected	
PORARY D	Method of defeat (Software / Hardware)	
IMS - TEM	Expected duration of defeats	
ADNOC M	After IWAP Team, PA request for TDC if required	
15		

## **TEMPORARY DEFEAT OF HSECES**

**Process Defeats:** 

ADNOC Classification: Internal

ADNOC WMS – TEMPORARY DEFEAT OF HSECES

The DCS (Distributed Control System) Supervisor is the Certificate Applicant for process defeat. This role will initiate the Certificate for such a process defeat, e.g. start-up/shutdown requirements, process upset requirements.

The DCS Operator acting in capacity of Defeat Performer (DP) ensures that associated certificates and defeat registers are always maintained up-to-date and that the records are informative and detailed.



(13)

ADNOC Classification: Internal

ADNOC WMS - TEMPORARY DEFEAT OF HSECES

17

## **TEMPORARY DEFEAT OF HSECES**

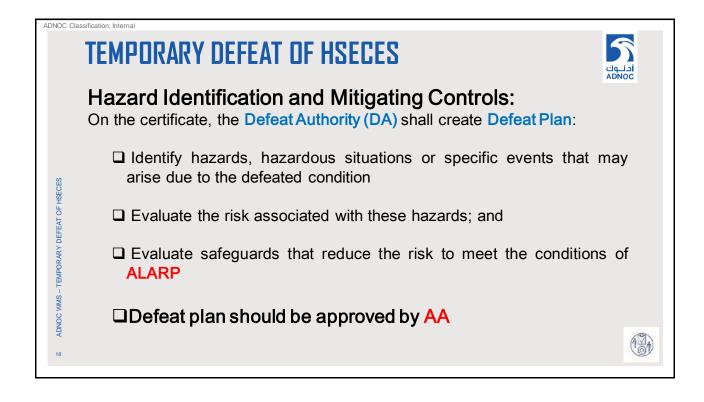


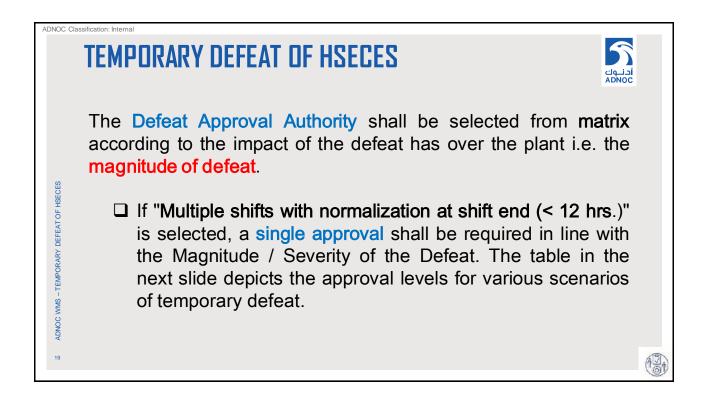
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## Maintenance Defeats:

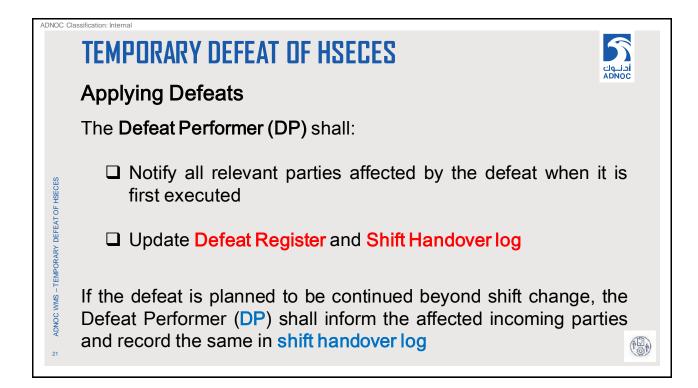
In such case the Maintenance / Instrument / Automation Supervisors shall act as the Performing Authority (PA) and Certificate Applicant for a defeat request and initiate the certificate as Defeat Authority (DA). This shall apply to all maintenance activities such as Preventative Maintenance tasks and all jobs for which a system notification (work order) is generated.

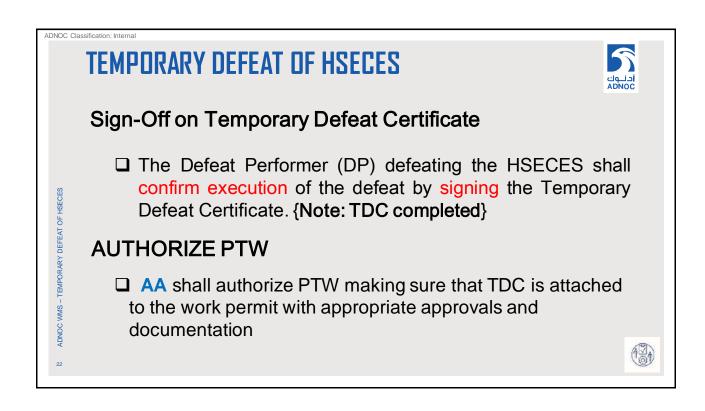
The **Technician (DP)** shall be responsible to **implement** the defeat and shall liaise closely with the DCS operator. This role will sign off the **Defeat Register** 



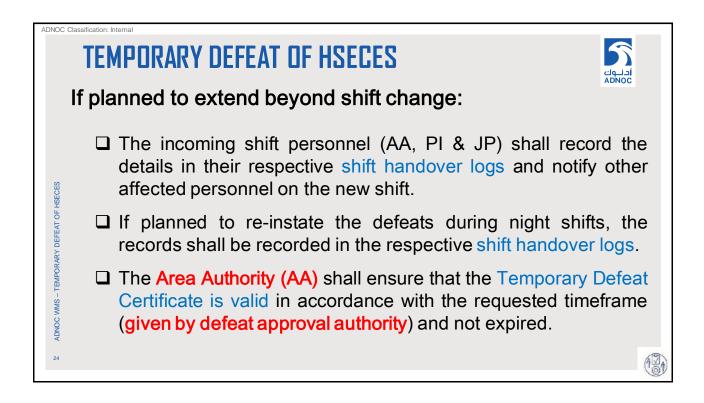


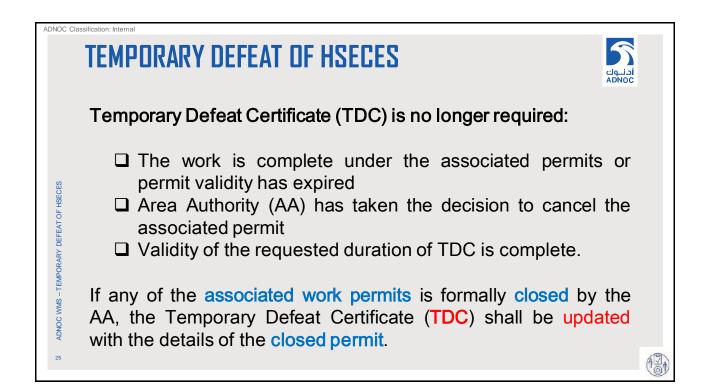
	Approval Authority	< 12 hrs	12 to 72 hrs	> 72 hrs	Individual Device:
f Defeat	Plant or SIL > 2	Manager Operations / Equivalent	SVP / VP Operations / Equivalent	SVP / VP Operations / Equivalent	Individual HSECE Component
everity c	Process Unit or SIL 2	Manager Operations / Equivalent	Manager Operations / Equivalent	SVP / VP Operations / Equivalent	Small Section:
itude / S	Process Section or SIL 1	Team Leader / Section Leader Operations / Equivalent	Team Leader / Section Leader Operations / Equivalent	VP Operations / Equivalent	Multiple component but not a complet
DeM	ndividual Equipment	Area Authority	Team Leader / Section Leader Operations / Equivalent	VP Operations / Equivalent	critical system
	The AA shall authorize all Temporary Defeats before implementation of defeats.				Large Section: A complete critical system comprising of multiple components

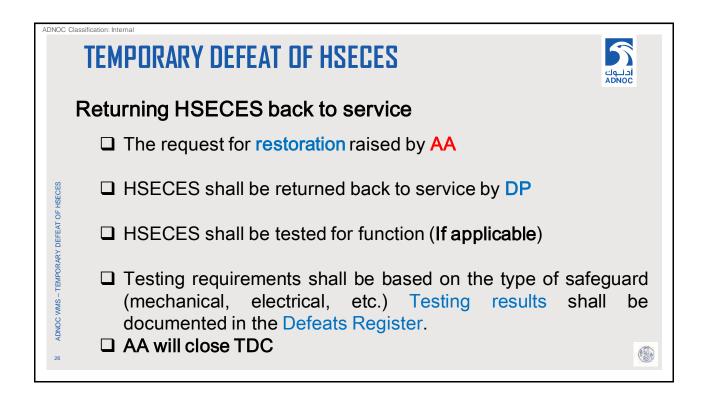




ADNOC Classification: Internal
TEMPORARY DEFEAT OF HSECES
DYNAMIC RISK ASSESSMENT
<ul> <li>Dynamic Risk Assessment is defined as the continuous process of identifying hazards and assessing risks arising due changing circumstances of an operational environment followed by taking action to eliminate or reduce risk.</li> </ul>
<ul> <li>followed by taking action to eliminate or reduce risk.</li> <li>The controls set in place of defeated HSECES and plant conditions shall be continually monitored for ensuring safe execution of work.</li> </ul>
<ul> <li>Monitoring requirements shall be followed as per the requirements of the Defeat Risk Assessment and Temporary Defeat Certificate (TDC).</li> </ul>







## **TEMPORARY DEFEAT OF HSECES**

ADNOC Classification: Interna

ADNOC WMS - TEMPORARY DEFEAT OF HSECES

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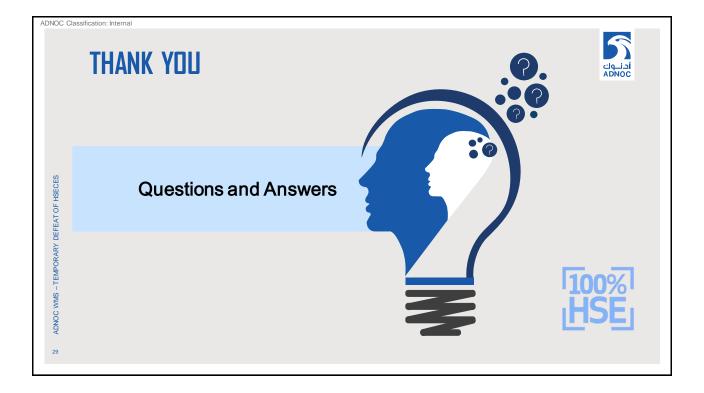


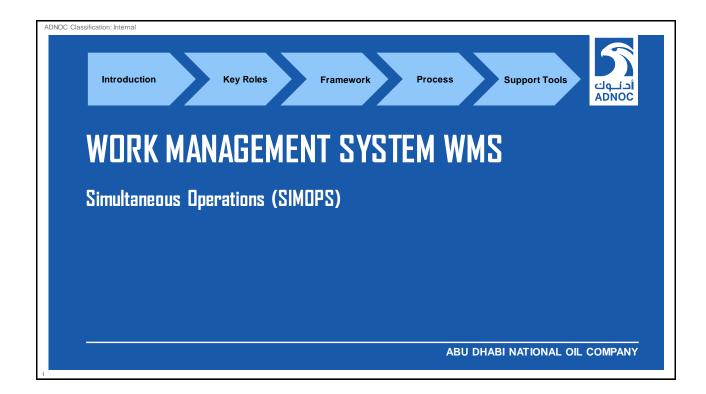
In cases where HSECES was defeated for working on other equipment, then testing might not be applicable for its reinstatement as the HSECES was healthy and working prior to defeating.

## Extended Period Defeats (EPD)

In case the planned duration of approval of defeat is expired and HSECES not returned to service, it shall be considered as Extended Period Defeat. If extension is required, **Defeat Approval Authority** decides whether a separate **Temporary Defeat Risk Assessment** is required or not and provides a **separate validity and approval for the extension**.

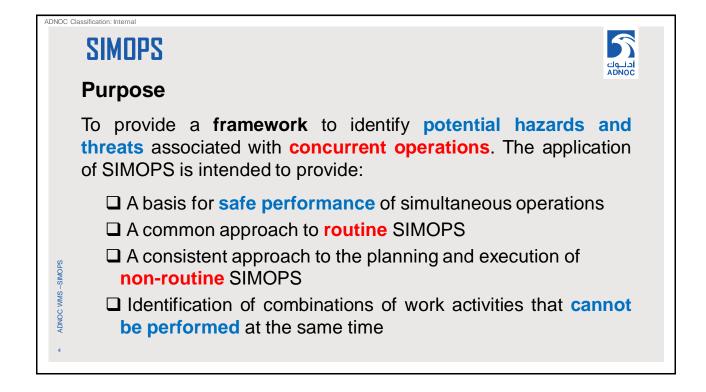
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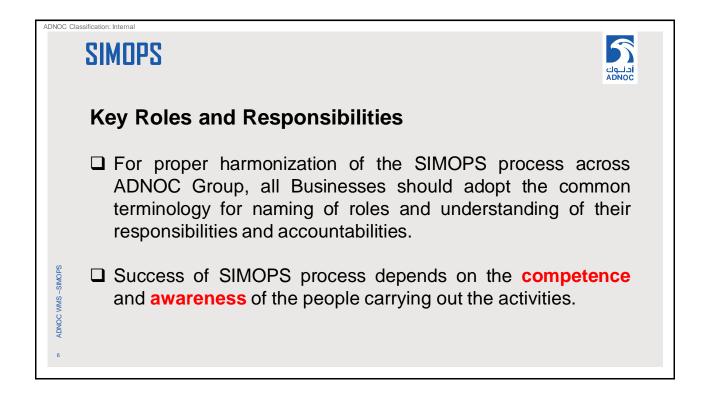


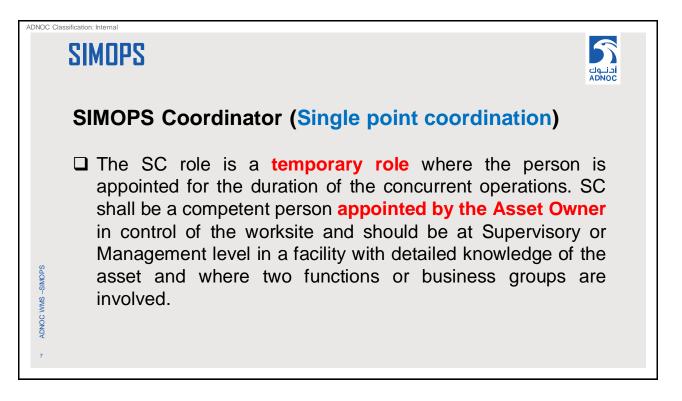
	AGENDA OF THE	PACKAGE		
	¥=	□ Introduction	Key Roles	
	¥=	Purpose	Framework	
ADNOC WMS -SIMOPS		Scope	□ Process	
Padnoc 3		,		

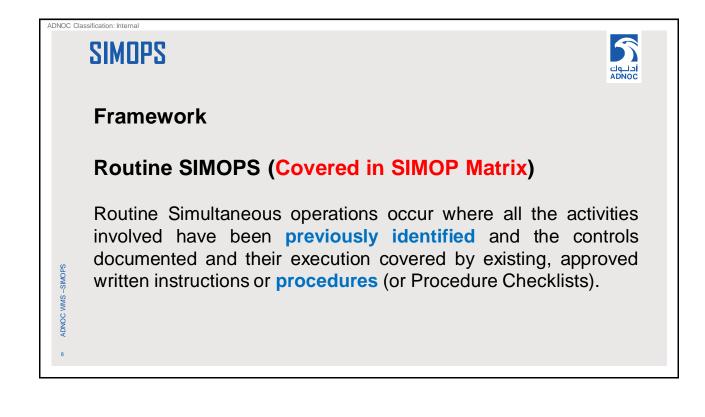
	VC Classification: Internal
	SIMOPS
	Introduction
	Simultaneous Operations (SIMOPS) are activities that take place at the same time and meet the following conditions:
	<ul> <li>Activities that are located in the same area; and</li> <li>Activities that could affect the safe performance of the another activity (e.g. Breaking Containment and Hot Work)</li> </ul>
ADNOC WMS –SIMOPS	



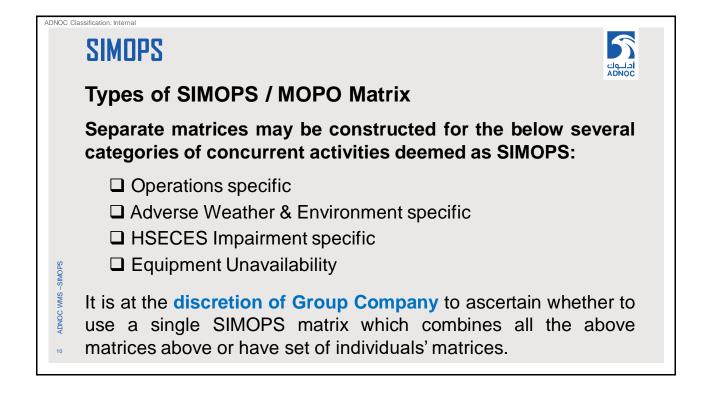
ADNOC C	Classification: Internal	
	SIMOPS	
	Scope	
	Applicability	
	Contractor Responsibilities	
SHOWI	Application (Adherence with all other WMS Standards)	
Panoc wwwSimops	Principles (WMS Elements)	





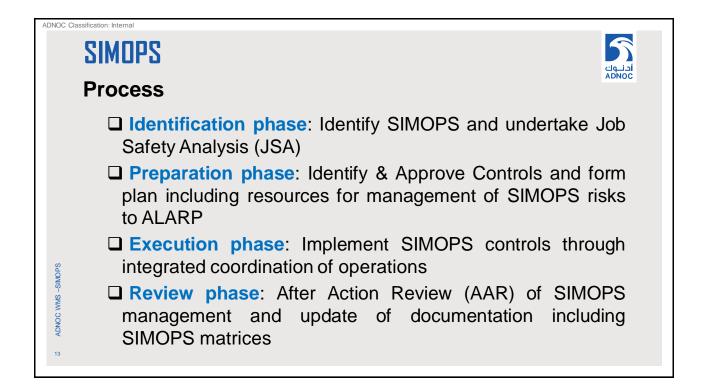


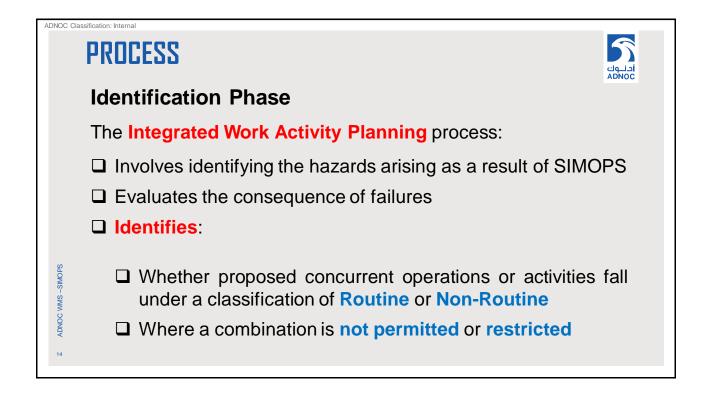
ADNOC Classification: Internal
Non-Routine SIMOPS (Not Covered in SIMOP Matrix)
Non-routine or 'occasional' SIMOPS can occur in the case of maintenance and/or modification works within the units of an existing facility such as a project. Following shall be required:
Overview for performing the planned operation & purpose
JIdentifying other activities planned during the same period
Identifying other limitations or restrictions
<ul> <li>Identifying circumstances (for example, weather)</li> <li>Indertaking a Formal Risk Assessment with appropriate</li> </ul>
a ondertaking a formal kisk Assessment with appropriate
teams of operational, engineering and specialists (where

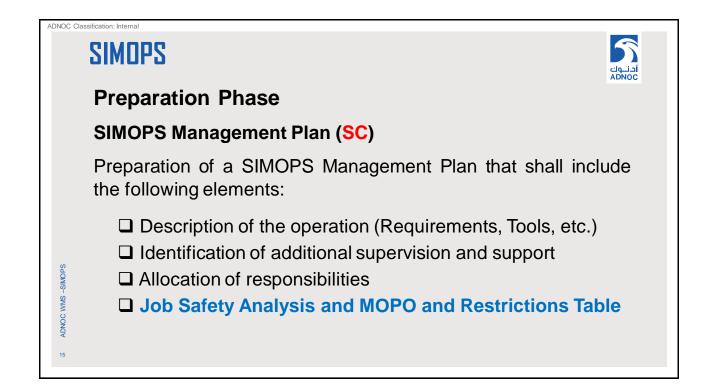


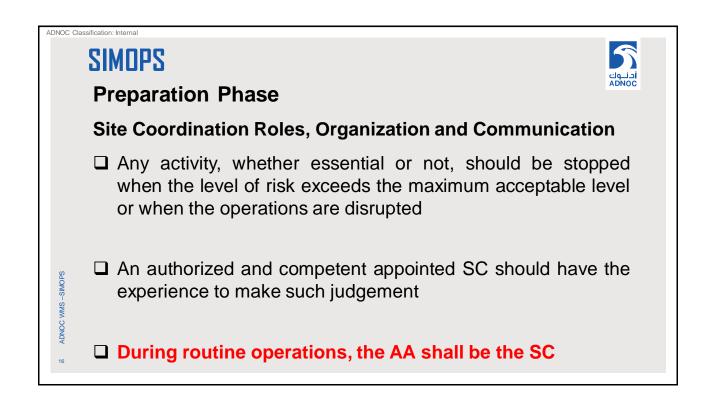
ADNOC Classification: Internal	
SIMOPS	
SIMOPS Restrictions Tables	ADNOC
<ul> <li>List the activity restrictions for managing conflicts</li> <li>Act as a supplement to the matrix</li> <li>Reference and guidance related to that combination of activities to be conducted.</li> <li>Provides structured guidance</li> </ul>	
All " <b>Restricted</b> " SIMOPS activities should have an ap JSA conducted and attached to <b>Deviation Request</b> approval. (AO will give Approval)	

ADNOC Classification: Internal
SIMOPS Matrix Decision Tree
<ul> <li>Provides several occasions in the PTW process to ascertain SIMOPS.</li> <li>Facilitates the planning/ scheduling SIMOPs activities</li> </ul>
<b>Three</b> basic categories are identified in a SIMOPS Matrix or MOPO:
<ul> <li>Allowed combinations of operations (Green)</li> <li>Restricted combinations with appropriate controls (Yellow)</li> <li>Prohibited combinations (Red)</li> </ul>

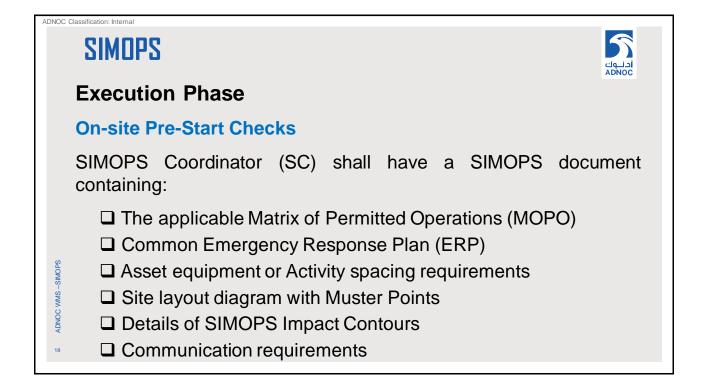


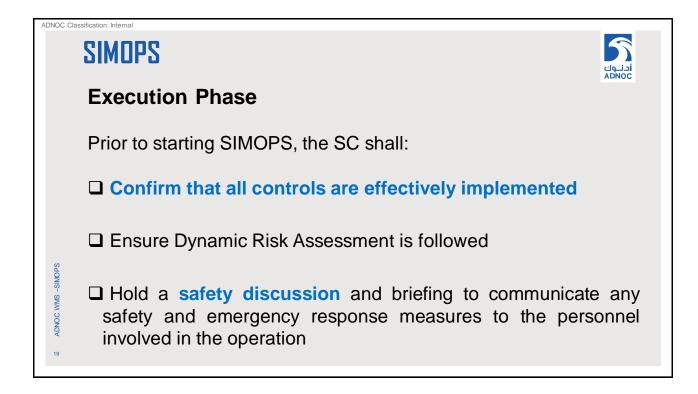


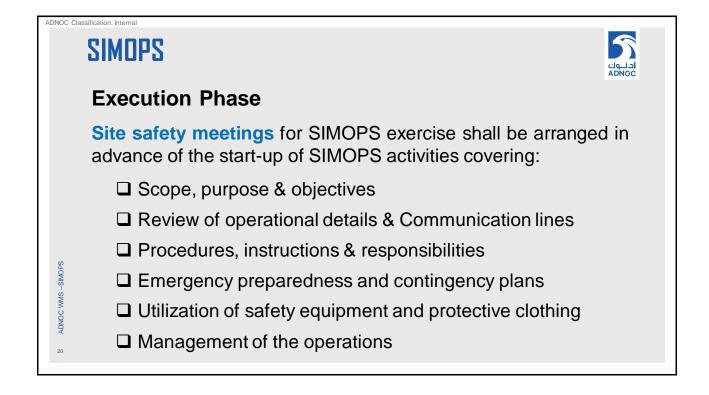


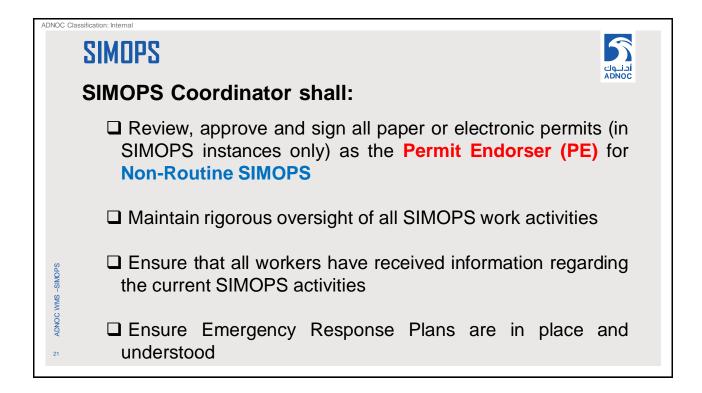


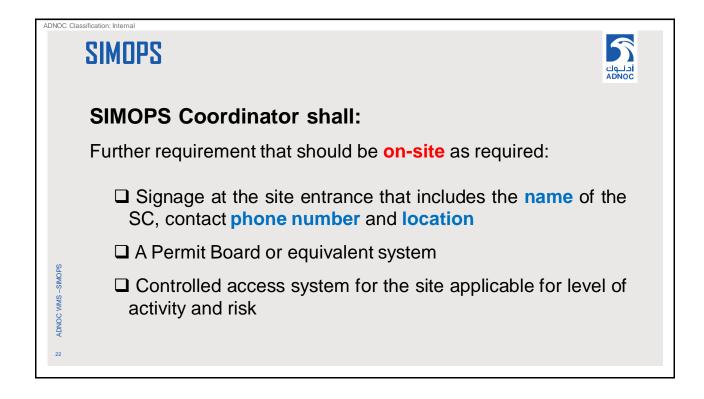
ADNOC Classification: Internal				
	SIMOPS			
	Preparation Phase			
	Other Pre-Execution Preparation Activities			
	<ul> <li>A site survey prior to commencing SIMOPS by the appointed SC and involved parties</li> <li>Review of requirements for shutting down work in affected</li> </ul>			
	areas			
S-SIMOPS	Revisions or modifications may be recommended to the SIMOPS management plan			
SMNO C WWS	Applicable Incident Management drills should be conducted prior to commencing SIMOPS operations			

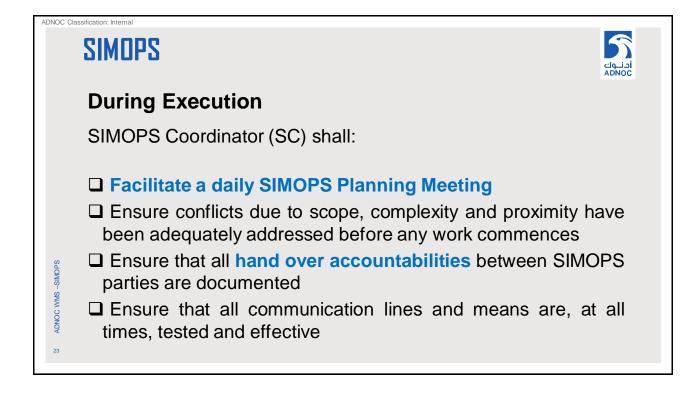


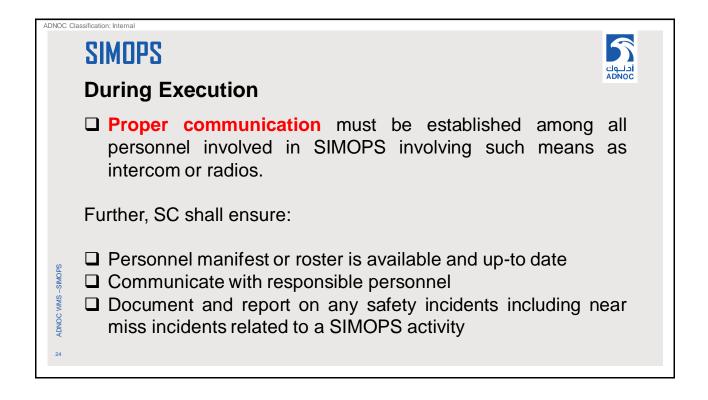


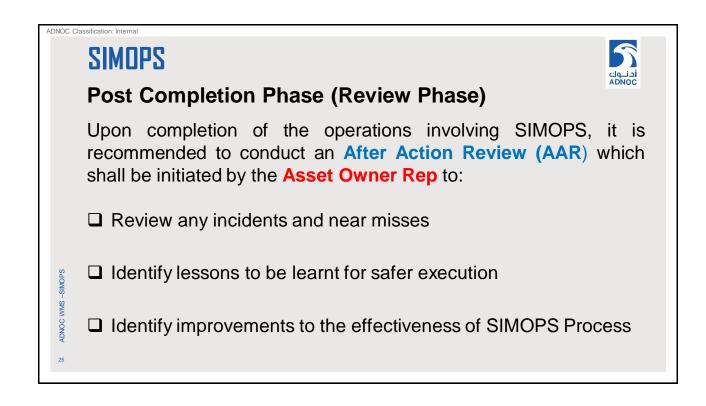












ADNOC Classification:	Internal	
AD	DITIONAL NOTES	
_	MOPS/MOPO Matrix is <b>not a stand-alone document</b> . The use of estriction Tables is to <b>put required controls</b> required in place	
bu: and	ach GC shall identify the <b>Routine SIMOPS applicable</b> within their ress siness and document the same via use of <b>SIMOPS matrix</b> or MOPO d Restrictions Table. Following requirements shall be applicable:	•
sa D The of any sm. D The	e MOPO Matrix / Restriction Table shall be approved by Asset Owner e MOPO Matrix / Restriction Table shall be reviewed and approved in y changes / modifications; and e approved MOPO Matrix / Restriction Table shall be readily available it Control Facility /Control Room or other designated area."	case
26		

