Saudi Aramco Contractor HSE: GI 2.100 Work Permit System and Construction Safety Manual

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Technical depth: Practitioner · **Practical mode:** Inspection walkthrough

Introduction

Contractors working for Saudi Aramco in Saudi Arabia operate under some of the most detailed HSE requirements in the energy sector, and permit errors, missed gas tests or gaps against the Construction Safety Manual lead to stopped work, audit findings and serious incidents. This coreconcept KSA course trains contractor supervisors and safety staff to apply the GI 2.100 Work Permit System, the related General Instructions and the Construction Safety Manual correctly on site. Through inspection walkthroughs of hot work, confined space and construction scenarios, participants build an Aramco Contractor Site HSE Compliance Pack for their own contract.

Course Objectives

- Navigate the Saudi Aramco HSE document hierarchy and identify which requirements apply to a given contract and site
- Apply the GI 2.100 Work Permit System, including permit types, roles, gas testing and isolation, to planned work
- Implement the Construction Safety Manual's contractor administrative and work site requirements on a project
- Recognise permit, isolation and site control failures and take corrective action before work continues
- Inspect permit-controlled and construction activities against Saudi Aramco criteria and record findings
- Produce an Aramco Contractor Site HSE Compliance Pack for the participant's own contract

Target Audience

- Contractor site supervisors and foremen directing permit-controlled work
- Work permit receivers and their designated representatives
- Contractor safety officers and HSE coordinators assigned to Saudi Aramco projects
- Site and construction engineers planning excavation, lifting and work at height
- Subcontractor supervisors joining Saudi Aramco contracts for the first time

Course Outline

Day 1: Saudi Aramco Contractor HSE Framework and Current State

- Saudi Aramco HSE Document Hierarchy: General Instructions, CSM and SAES
- Construction Safety Manual 5th Edition: CSAR Volume 1 and Work Site Safety Manual Volume 2
- Restricted and Non-Restricted Areas and Their Permit Implications
- Contractor HSE Management Under ISO 45001 Clause 8.1.4 and IOGP Report 423
- Contractor HSE Gap Review Against CSAR Requirements

Day 2: The GI 2.100 Work Permit System and Related General Instructions

- GI 2.100 Permit Types: Hot Work, Cold Work, Confined Space Entry and Line Break
- Work Permit Issuer, Work Permit Receiver and Gas Tester Roles Under GI 2.100
- Gas Testing for H2S, Oxygen and Flammable Gases Under GI 2.709
- Isolation, Lockout and Hold Tags Under GI 6.012
- IOGP Life-Saving Rules Alignment: Work Authorisation, Energy Isolation and Confined Space

Day 3: Applying the Construction Safety Manual on Site

- Contractor Site HSE Plan and Safety Personnel Requirements Under CSAR
- Job Safety Analysis and Pre-Job Toolbox Meeting Records
- Excavation, Shoring and Buried Services Controls in the WSSM
- Scaffold Tagging, Work at Height and Fall Protection Checks in the WSSM
- Crane Lift Plans and Heavy Equipment Inspection Requirements in the WSSM

Day 4: Permit Failures, Simultaneous Operations and Non-Compliance

- Simultaneous Operations SIMOPS and Multiple Permit Coordination
- Common Permit Failures: Expired Permits, Changed Conditions and Missed Gas Retests
- Stop-Work Authority, Incident Reporting and Corrective Action Close-Out
- Contractor HSE Audit Findings Response and Performance Evaluation
- Emergency Response and Rescue Arrangements for Permit-Controlled Work

Day 5: Inspection Walkthroughs and the Aramco Contractor Site HSE Compliance Pack

- Hot Work Walkthrough: Permit, Gas Test and Fire Watch Verification
- Confined Space Entry Walkthrough: Isolation, Attendant and Rescue Readiness
- Construction Site Walkthrough Against a WSSM Inspection Checklist
- Aramco Contractor Site HSE Compliance Pack Drafting
- Peer Review and Corrective Action Plan Defence

Skills You Will Gain

- Work Permit Control
- Gas Testing Verification
- Energy Isolation Control
- Contractor HSE Administration
- Construction Site Inspection
- Simultaneous Operations Coordination
- Stop-Work Decision Making

Why Attend This Course

- Return to work with an Aramco Contractor Site HSE Compliance Pack for your own contract, already reviewed by peers
- Know exactly what must be in place before you sign as a permit receiver or let a crew start work
- Spot the permit and site control gaps that most often lead to stop-work orders and audit findings
- Exchange practice with supervisors and safety staff from other contractors and sectors working to the same requirements

Conclusion

On Saudi Aramco sites, safe and uninterrupted work depends on getting permits, isolations and site controls right every time. This course moves from the Saudi Aramco HSE document hierarchy and the Construction Safety Manual, through the GI 2.100 Work Permit System with its gas testing and isolation instructions, to site application and the failures that cause incidents and stoppages. The final day applies that material in inspection walkthroughs and produces an Aramco Contractor Site HSE Compliance Pack that participants take back to their contract.