Workplace Risk Assessment for Oil & Gas

Service Objectives

- Produce a clear, prioritised and actionable risk profile aligned to company HSE standards and process safety philosophy.
- Map hydrocarbon inventory, ignition sources and exposure pathways; quantify risk with criteria consistently used in PTW and toolbox talks.
- Embed hierarchy of controls with emphasis on energy isolation, gas detection and ignition management that remain effective during SIMOPS and shutdowns.
- Integrate task-level findings with barrier management and process safety KPIs; improve PTW, LOTO, mechanical isolation and gas testing with measurable outcomes.
- Provide traceable ALARP justifications and assurance evidence, with defined review cadence across the asset lifecycle.

> Outputs are aligned with ISO 45001 and your PTW/SIMOPS workflows, supporting MOHRE compliance and corporate assurance.

Who This Service Is For

- Operators and contractors in drilling, production, gas processing, tank farms, pipelines, terminals and maintenance campaigns.
- HSE managers, plant managers, OIMs, site supervisors and permit issuers needing current JSAs/JHAs for hot work, confined space, work at height, lifting and SIMOPS (offshore and onshore).
- Brownfield modifications involving tie-ins, isolation verification and line-breaking where hydrocarbon release, H2S, ignition and stored energy risks are elevated.
- EPC contractors mobilising to remote desert sites or offshore installations coordinating with marine/aviation operations and live hydrocarbon systems.
- UAE operations under tight turnaround windows seeking ALARP-based controls to support planning, isolations, permits and contractor interfaces without impacting production.
- Assets including central processing facilities, gathering stations, metering skids, subsea tie-backs and crude storage/export terminals requiring evidence-based risk decisions.

Duration & Process Overview

- Typical single-site duration: 4–8 weeks end-to-end (scoping, fieldwork, workshops, analysis, reporting).
- Multi-site or pipeline corridors: staged in waves aligned to access permits, shutdowns and marine/aviation schedules.

- Delivery model: on-site walkdowns and workshops; remote document review and follow-up where permitted; hybrid common for dispersed assets.
- Optional rapid-assessment sprint pre-shutdown to validate high-criticality task controls and document ALARP before gate reviews.

Methodology

Methodology integrates field realities with process safety interfaces and aligns outputs with PTW, SIMOPS and your HSE management system.

Phase	Objective / Focus	Duration / Key Outputs
Pre-Engagement Scoping	Define asset boundaries, task inventory and SIMOPS constraints.	1–2 weeks; scoping note, document request list, preliminary risk profile.
Field Walkdowns & Interviews	Area surveys, safeguard verification and supervisor/technician inputs.	3–10 days/site; walkdown observations, gaps register, validated task list.
Workshops & Analysis	Facilitated JSA/JHA, SIMOPS review and control strategy design.	2–5 days; risk-ranked tasks, control measures, PTW conditions.
Reporting & Handover	Finalise action plan and align with HSE-MS and dashboards.	1–2 weeks; final report, traceable actions, implementation roadmap.

Document Review

- PTW, LOTO, isolation philosophies, P&IDs/PFDs, SDS, emergency response plans, lifting plans, contractor RAMS.

Worksite Walkdowns

- Access/egress, ventilation, gas testing points, temporary equipment placement, exclusion zones.
- Verify safeguards: LOTO, blinds/spades, Ex-rated tools, bonding/earthing, fire watch arrangements.

Facilitated Assessments

- JSA/JHA calibrated to corporate risk matrix and Oil & Gas hazards.
- Consider ignition potential, flammable/toxic atmospheres, pressure energy, dropped objects, line-of-fire and SIMOPS.

Action Planning

- Assign owners, due dates and verification steps; integrate with shutdown/turnaround schedules.
- Map recommendations to permit conditions, toolbox prompts and barrier health indicators.