Hot Work Training Abu Dhabi

Service Objectives

- Recognise hot work hazards: ignition of flammables, radiant heat, flying sparks, heat conduction, and confined space interactions.
- Apply permit-to-work requirements aligned with OSHAD and Abu Dhabi Civil Defence, including isolation, barricading, and continuous monitoring.
- Select and stage fire prevention and protection: fire blankets, spark containment, local exhaust ventilation, and appropriate extinguishers.
- Conduct gas testing and atmospheric monitoring (LEL/O2/TOX); set safe distances and cordons; maintain fire watch before, during, and after work.
- Integrate with other high-risk activities (LOTO, confined space entry, work at height) to avoid concurrent work conflicts.
- Execute emergency response steps, communication protocols, and post-work fire watch duration in line with NFPA 51B and site standards.

> Aligned with OSHAD, Abu Dhabi Civil Defence expectations, and NFPA 51B guidance for Abu Dhabi facilities, including ADNOC-operated sites.

Who This Service Is For

- Organisations in Abu Dhabi conducting welding, cutting, grinding, hot tapping, or other spark-producing activities.
- Facilities and zones: ICAD, Mussafah, KIZAD, Khalifa Port, Ruwais, and ADNOC-operated sites.
- Industries: Oil & Gas (upstream/midstream/downstream), Petrochemicals, Construction/EPC, Manufacturing/Fabrication, Ship repair/marine, Logistics/Warehousing, Utilities/Power Generation.
- Roles: Welders, Fabricators, Cutters, Riggers, Fire Watch, Supervisors/Foremen, Permit Issuers/Receivers, Safety Officers, Maintenance Technicians, Turnaround Teams, Contractors.
- HSE managers and training coordinators requiring documented competence for OSHAD and Civil Defence audits.

Duration & Process Overview

Tracks and typical durations:

- Awareness: 3–4 hours; classroom or blended; up to 20 delegates.
- Operator / Permit Receiver: 1 day; on-site practical + theory; up to 16 delegates.
- Supervisor / Permit Issuer: 1 day; workshop + case studies; up to 14 delegates.
- Refresher: 2–4 hours; classroom or virtual live; up to 20 delegates.

Delivery on-site across Abu Dhabi (Mussafah, ICAD, KIZAD, Ruwais) or nearby venues; Arabic and English options. Scheduling can align with shutdowns, shift rotations, and parallel classes where needed.

Methodology

Phase	Objective	Deliverable
Pre-training needs analysis	Gather site permits/procedures; tailor content to sector and Abu Dhabi context.	Customised training plan and scenarios.
Module 1 — Hazards, Chemistry, Case Studies	Understand fire triangle/tetrahedron, ignition mechanisms, and local incident learnings.	Case study exercises relevant to Abu Dhabi operations.
Module 2 — Permit-to-Work, Roles, Responsibilities	Map site permit flow to OSHAD/Civil Defence expectations; clarify issuer/receiver roles.	Permit flow mapping and toolbox talk essentials.
Module 3 — Fire Prevention, Protection, Monitoring	Select extinguishers; set exclusion zones; apply gas testing and alarm/stop thresholds.	LEL/O2 interpretation practice and control set-up checklist.
Module 4 — Equipment Inspection and Safe Set-Up	Inspect power sources, hoses, regulators, torches; verify grinder guards and tagging.	Pre-use inspection sheets and layout demonstration.
Module 5 — Integration with Other High-Risk Work	Control interfaces with LOTO, confined space, lifting, scaffolding, painting; stop-work authority.	Interface matrix and scenario drill outputs.
Practical exercises and walkthroughs	Simulate permits, barrier placement, and fire watch routines for real-world application.	Completed permit scenario pack and area prep practice.
Assessment & Certification	Written knowledge check and practical evaluation; permit review for supervisors.	NPM Certificate of Completion with course level, hours, outcome, unique ID, validity.