Hot Work Training for Construction

Service Objectives

Role-focused training to build reliable, repeatable competence for planning, approving, performing, and supervising hot work on UAE construction projects.

- Integrate NFPA 51B with UAE Civil Defence, OSHAD, and Dubai Municipality requirements into site-ready PTW and field controls.
- Develop consistent risk assessment, control sequencing, and verification so hot work does not threaten the critical path.
- Strengthen decision-making: stop-work triggers, deviation escalation, and evidence requirements for approvals.
- Standardise fire watch setup, duration, and shift handovers; ensure extinguishers, shielding, and no-ignition zones are practically usable.
- Improve documentation discipline: photographs, annotated layouts, gas test records, logs, and defensible permit closures.
- Reduce near-misses, speed safe approvals, and maintain clean audit trails across multi-contractor sites.

> Built around UAE Civil Defence Fire and Life Safety Code, OSHAD, Dubai Municipality requirements, and NFPA 51B—aligned to your Permit-to-Work system so hot work proceeds without incidents or costly rework.

Who This Service Is For

- Site managers, HSE officers, construction supervisors, MEP leads, permit issuers/approvers, welders/cutters/grinders, torch-on roofers, rebar/steel crews, scaffolding teams, and QA/QC inspectors.
- Principal contractors coordinating multiple subcontractors needing common PTW language, isolation standards, and fire watch expectations.
- Fit-out contractors conducting grinding and cutting in interior spaces with finished materials and packaging.
- Infrastructure projects with hot work near energised utilities or fuel lines, including complex confined spaces.
- Project contexts: high-rise developments, industrial facility expansions, data centre shell and core, metro/tunnelling works.
- Mixed workforces; delivery available in English, Arabic, Hindi, and Urdu across the UAE.

Duration & Process Overview

- 4 hours (operators & fire watch); 1 day (supervisors/approvers); 2 days advanced with custom scenarios; 2–3 hour refreshers.

- Delivery: on-site classroom plus field walkdown (default), in-house, or hybrid with pre-work eLearning; split sessions possible for shifts.
- Group size: typically 8–18; participants practise on your permit forms, method statements, and site layouts.

Methodology

Role-focused curriculum blending classroom, case-based exercises, and site walkdown simulations reflective of UAE project conditions.

Phase	Objective	Deliverable
Pre-delivery Scoping & Alignment	Needs analysis; collect PTW templates and method statements; short site walk for custom scenarios.	Scoped programme and customised training materials.
Definitions & Hot Work Scope	Agree what qualifies as hot work and PTW/SIMOPS implications on construction sites.	Aligned criteria and role clarity across teams.
Hazard Identification & Control Design	Spot combustibles, vapours, voids, heat conduction paths; plan isolation, shielding, ventilation, gas testing, barricading.	Tailored control sets and verification checklists.
Permit-to-Work Practice & Documentation	Issue/approve permits using site-adapted checklists; build evidence packs with photos, annotations, signatures, timing logs.	Permit exemplars and evidence-pack templates.
Control Sequencing & Verification	Apply real-world sequences: pre-job checks, isolation, gas testing, spark containment, combustible clearance, fire watch continuity.	Sequencing matrices and approval/rejection rationale.
Fire Watch & Emergency Readiness Drills	Size/deploy trained fire watches; set observation periods and shift handovers; extinguisher selection/positioning; evacuation routes.	Fire watch plans and readiness checklist.
Site Walkdown Simulation	Apply controls in-field; verify clearances; place shields/blankets; document gas tests or monitoring as required.	Annotated site sketches and photo logs.
Scenario-based Assessment & Certification	Written knowledge check; practical evaluations with case photos and permit simulations; role-based assessments.	Certificate of completion (name, employer, level, hours, date, unique ID).

Module 1: UAE Regulatory Foundations

- Map Civil Defence, OSHAD, and Dubai Municipality expectations to site PTW processes and ISO 45001 governance.

Module 2: Hazard Identification & Risk Controls

- Use real site photos and method statements to design isolation, shielding, ventilation, gas testing, and barricading.

Module 3: PTW Mastery & Documentation

- Issue and approve permits; assemble defensible evidence with annotated layouts, photographs, and timing logs.

Module 4: Fire Watch & Emergency Readiness

- Set observation durations, manage shift handovers, and practise extinguisher selection and evacuation path planning.