Electrical Safety Training UAE

Service Objectives

Build practical, role-appropriate competence to work safely around electrical hazards and to integrate with your PTW/LOTO controls in UAE industrial settings.

- Identify electrical hazards and apply risk-based controls for routine and non-routine work.
- Apply LOTO and PTW correctly: plan isolations, test-for-dead, and establish a zero-energy state.
- Recognise shock, arc-flash and arc-blast hazards; set safe approach boundaries; select and inspect arc-rated PPE and tools.
- Interpret single-line diagrams, labels and nameplates to plan safe LV/HV isolations and switching sequences.
- Implement safe practices for confined/wet areas, temporary supplies and portable tools; respond to incidents with appropriate first aid and shutdown steps.

> Aligned with UAE expectations (OSHAD/Abu Dhabi, Dubai Municipality and Dubai Civil Defence, MOHRE) and international standards (NFPA 70E, IEC/BS, ISO 45001).

Who This Service Is For

For UAE organisations operating complex or energy-intensive assets, and teams interacting with electrical systems or working near energised parts.

- Sectors: oil and gas, petrochemical, manufacturing, utilities, logistics, construction and power generation.
- Roles: electrical engineers, maintenance technicians, I&C personnel, facility managers, safety officers, AP/CP, supervisors and contractors.
- PTW issuers/receivers and LV/HV switching teams seeking consistent site practice.
- HSE managers and training coordinators standardising safe work across multi-site, mixed-nationality workforces.
- Operations facing tight shutdown windows, commissioning, SIMOPS or brownfield tie-ins.

Duration & Process Overview

- Awareness: 4–8 hours (non-electrical and all staff).
- Practitioner pathways (LOTO/PTW, arc-flash, LV/HV isolation): 1–2 days.
- Authorised Person/Supervisor: 2–3 days with competency checks (isolation planning, switching orders, verification before re-energisation).
- Refreshers/toolbox: 2–4 hours. On-site, virtual or hybrid delivery in English or Arabic. Typical cohort sizes: 10–16 (practitioner/AP), 20–24 (awareness).

Methodology

Modular delivery mapped to your roles and risk profile, using your procedures, single-line diagrams and real permits to ensure immediate on-the-job application.

Phase	Objective / What It Covers	Typical Duration / Deliverable
Scoping & Needs Analysis	Review PTW/LOTO procedures, single-line diagrams and hazards; agree site-specific scenarios and roles.	Pre-course; 1–2 weeks prior to delivery
Curriculum Mapping	Map modules to awareness, practitioner and AP levels; embed client permits and drawings.	Role-aligned training plan
Delivery – Awareness	Fundamentals: shock/arc hazards, safe approach, signage and equipment labelling.	0.5–1 day (4–8 hours)
Delivery – Practitioner	LOTO & PTW integration, test-for-dead, arc-flash risk and PPE, LV/HV isolation practice.	1–2 days
Delivery – AP/Supervisor	Switching orders, single-line interpretation, testing, re-energisation controls, control room coordination.	2–3 days
Practical Application	Case-based exercises using your permits, diagrams and job plans; test-for-dead demonstrations.	Embedded across modules
Assessment	Written checks, scenario problem-solving and practical demonstrations; AP/CP competency against role responsibilities.	End-of-module and final assessments
Certification & Records	Certificate of completion with objectives, duration, assessment type and trainer credentials. Client retains formal authorisation duties.	Issued post-assessment; audit-ready records
Optional Refreshers	Focused updates and scenario practice tied to new equipment, incidents or upcoming shutdowns/commissioning.	2–4 hours, as required