# Electrical Safety Training Dubai

## Service Objectives

- Recognise electrical hazards (shock, arc flash/blast, induced voltages) across Dubai industrial contexts.
- Select and verify controls: LOTO, isolation, grounding/earthing, test-before-touch, barriers and interlocks.
- Use task-appropriate PPE (arc-rated garments, face shields, voltage-rated gloves, insulated tools).
- Apply permits, method statements, and toolbox talks to JAFZA and site rules; align with ISO 45001 practices.
- Interpret single-line diagrams, labels, and nameplates to plan safe work on MCCs, panelboards, UPS, generators, and temporary power.
- Achieve reliable performance in high-risk settings typical of Dubai logistics, construction, and manufacturing.

> Outcomes reported by organisations include incident reduction, stronger audit readiness for Dubai Municipality and Dubai Civil Defence, improved job planning, and fewer outage-related delays.

## Who This Service Is For

- HSE managers, training coordinators, supervisors, and permit-to-work authorities operating in Dubai.
- Electricians, instrument technicians, maintenance planners, facility engineers, and commissioning teams.
- Teams in logistics hubs, manufacturing lines, utilities, data centres, and high-rise construction sites.
- Contractors within JAFZA and Dubai South where landlord/client HSE requirements mandate proven electrical competency.
- Organisations managing substations, LV/MV switchgear, or temporary construction power; supervisors/HSE advisors/PTW coordinators focused on isolations and task risk assessments.
- Operations seeking to reduce downtime and avoid enforcement actions during Dubai Municipality and Dubai Civil Defence audits.

## Duration & Process Overview

- Awareness: 1 day (onsite or virtual) — hazard recognition and response.
- Practitioner: 2 days (blended eLearning + practical workshop) — LOTO, test-before-touch, PPE labs.
- Supervisor/Authorized Person: 3 days (instructor-led with site walkdowns) — isolation planning and procedural audits.
- Refresher: 0.5–1 day (virtual or onsite) — annual/biennial updates and competency checks.

Flexible options include in-house delivery at your Dubai facility, offsite venues near Jebel Ali, or virtual sessions. Hybrid and shift-based schedules, including evenings/weekends and micro-sessions around maintenance windows, are available.

## Methodology

The training is modular and site-adapted, delivered in English and Arabic, with Dubai-specific case scenarios and hands-on practice using your permits, LOTO hardware, and equipment data.

| Phase | Objective | Deliverable |
|---|---|---|
| Training Needs Analysis & Site Inputs | Capture hazards, assets, and procedures unique to your Dubai site. | Collected permits, single-line diagrams, LOTO procedures, PPE policies. |
| Customisation & Localisation | Tailor modules to Dubai-specific scenarios and languages. | Custom agenda with Dubai case studies (English/Arabic). |
| Module 1 — Electrical Fundamentals for Safe Work | Power system basics, LV/MV overview, fault currents, equipment ratings. | Applied understanding of isolation consequences in dense estates. |
| Module 2 — Hazards & Risk Controls | Shock, arc flash/blast physics, approach boundaries, control selection. | Task-based hazard evaluation aligned to Dubai operations. |
| Module 3 — LOTO & Isolation Planning | PTW interface, tagging, sequencing, verify de-energisation, coordination. | Isolation plans integrated with facility operations and PTW. |
| Module 4 — Tools, Test Instruments & PPE | Test-before-touch, voltage detection, insulation basics, PPE selection. | Demonstrated instrument use and energy-aligned PPE choices. |
| Module 5 — Safe Work Procedures | Switching, racking, controlled live testing, temporary power, tie-ins. | Procedural discipline for contractors and interfaces. |
| Module 6 — Emergency Response & Incident Learning | Shock first aid considerations, arc-flash injury mitigation, reporting and CAPA. | ISO 45001-aligned reporting and corrective actions. |
| Hands-on Demonstrations | Use site LOTO hardware, permits, and equipment data for practice. | Direct transfer of learning to daily operations. |
| Assessment & Certification | Knowledge checks, scenario-based tasks, practical verification; site walkdowns when approved. | NPM Certificate of Completion; client retains internal authorisations. |
| Post-Training Recommendations | Pragmatic improvements to procedures, signage, labelling, and inspection routines. | Actionable recommendations to sustain field performance. |

### Delivery Options

- In-house at your Dubai facility, offsite near Jebel Ali, or virtual for multi-site teams.
- Blended format combining concise eLearning with instructor-led workshops.
- Shift-friendly scheduling, including evenings/weekends and micro-sessions.

### Role-Specific Tracks

- Manufacturing: LOTO on complex interlocks, safe troubleshooting under time pressure, production coordination.
- Oil & Gas: Hazardous-area considerations, temporary power for turnarounds, interface with process safety systems.
- Construction: Temporary power distribution, generator tie-ins, cable routing, distribution board management.
- Utilities: Switching procedures, test-before-touch, communications under PTW/Authorized Person model.