Arc Flash Training Dubai

> Dubai-aligned arc flash and electrical safety training mapped to NFPA 70E, IEEE 1584 and IEC 61482, integrating Dubai Municipality, Dubai Civil Defence and DEWA safe work practices. Delivery in English or Arabic. Scenario-based exercises can use your one-line diagrams and Dubai site jobs.

Service Objectives

- Recognise, assess, and control arc flash and shock hazards across LV/MV systems.
- Interpret arc flash labels and one-line diagrams to set approach boundaries and select PPE.
- Apply NFPA 70E safe work practices, JHA, and job briefings in Dubai substations and MCC rooms.
- Execute lockout/tagout and test-before-touch aligned with DEWA and Dubai Municipality expectations.
- Plan and justify energised work with permits, risk reductions, barriers, insulated tools, and equipment checks.
- Respond to incidents and embed lessons into SOPs, maintenance plans, and toolbox talks.

Who This Service Is For

- HSE managers, electrical engineers, maintenance supervisors, technicians, and contractors working on or near energised equipment in Dubai.
- Organisations owning or maintaining LV/MV switchgear, transformers, substations, generators, UPS, PV arrays, EV chargers, and process control panels.
- Operations in JAFZA, Dubai South, DIC, Al Quoz, DIP, Jebel Ali Industrial Area, and Port Rashid-connected facilities.
- Sectors: oil and gas, petrochemical, manufacturing, logistics, construction, utilities, and power generation; EPCs, FM providers, and OEM service teams.
- Teams preparing for energisation of new assets, major shutdowns, brownfield upgrades, or revalidation of labelling and risk assessments.
- Organisations seeking faster approvals and clear compliance evidence for Dubai Municipality, Dubai Civil Defence, and DEWA interfaces.

Duration & Process Overview

- Awareness: 1 day (12–20 participants) — hazards, labels, and basic controls.
- Practitioner: 2 days (10–16) — classroom + scenarios; hands-on job planning drills.
- Advanced: 3 days (8–14) — deeper dive into study outputs, boundaries, and permits.
- Virtual: 2 × 4-hour blocks; Blended: prework + 1 day. Delivered in-house at your Dubai site or in a training room; scheduled around shifts; English or Arabic.

Methodology

Phase	Objective	Deliverable / Duration
Pre-training Needs Analysis	Collect one-line diagrams, labels, method statements, and typical jobs to localise scenarios.	Tailored agenda and Dubai-specific scenarios.
Module 1 — Electrical Hazard Fundamentals	Explain fault current, arcing faults, enclosure effects, and working distance on incident energy.	Foundation on hazard mechanisms and typical failure modes.
Module 2 — NFPA 70E & IEEE 1584 in Practice	Demystify study outputs, labels, and coordination impacts to shape job plans.	Ability to read one-lines and link labels to approach boundaries/PPE.
Module 3 — PPE, Heat Stress & Tooling	Select and use arc-rated PPE (IEC 61482) with Dubai-centric heat-stress controls.	Correct PPE selection, donning/doffing, and work-rest practices.
Module 4 — Safe Work, LOTO & Energised Permits	Translate policy into JHA, job briefings, verification of absence of voltage, and re-energisation checks.	Documentation aligned to Dubai Municipality, DEWA, and Dubai Civil Defence requirements.
Module 5 — Incident Response & Reporting	Manage immediate response, scene control, first aid, escalation, and investigation pathways.	Clear reporting flows and corrective action capture.
Optional — Supervisors / Authorised Persons Track	Cover energised work justification, permit authorisation, switching orders, audits, and competency verification.	Permit-ready templates and competency evidence.
Assessment & Certification	Confirm competence via knowledge checks, scenarios, and practical demonstrations.	Proctored assessment; NPM Certificate of Completion; remediation guidance.
Post-training Reinforcement (Optional)	Coaching on job packs, audit checklists, and field observation programmes.	Sustained performance and audit-ready documentation.

> Led by NPM subject-matter experts with deep NFPA 70E/IEEE 1584 experience and Dubai casework. Materials align with ISO 45001 practices and site permit-to-work processes, with optional follow-up observations and coaching.