Arc Flash Training UAE

Service Objectives

Training equips electrical and HSE teams to reduce injury risk, prevent outages, and ensure safe, compliant operations aligned with NFPA 70E, IEC-based practices, and UAE authority expectations.

- Identify, assess, and control arc flash and shock hazards in real work environments.
- Interpret arc flash labels (incident energy, PPE category, boundaries, approach limits).
- Select task-appropriate PPE and insulating tools based on categories or calculated energy.
- Apply electrical safe work practices: LO/TO, energised work permits, job briefings, verification.
- Establish and maintain shock and arc flash boundaries; enforce approach discipline.
- Plan, document, and when necessary execute justified energised tasks using robust controls; respond to incidents.

> Tailored to your equipment ratings, protection schemes, labels, and procedures, with classroom learning reinforced by realistic facility scenarios to build practical confidence and improve compliance.

Who This Service Is For

- Electrical technicians, maintenance electricians, instrument technicians, supervisors, permit-to-work authorities, safety officers, and engineers.
- Teams working on or near switchgear, MCCs, panelboards, UPS, generators, transformers, and during testing/troubleshooting.
- Organisations in oil and gas, petrochemical, power generation, manufacturing, construction, logistics, utilities, and data centres.
- Training coordinators and HSE managers seeking standardised procedures and contractor alignment across sites.
- Sector-specific paths available for Power Generation, Manufacturing, Oil & Gas, and Utilities (contextualised case studies and scenarios).

Duration & Process Overview

- One-day awareness; two-day practitioner (technicians/supervisors); half-day executive briefing (non-electrical leaders).
- Modular delivery across shifts to maintain coverage; typical class size 8–16 (larger groups split to preserve quality).
- Formats: on-site classroom with equipment walkdowns, live virtual instructor-led, or hybrid (theory online, practical at site).
- Assessment-led approach with knowledge checks, scenarios, and practical demonstrations; Certificate of Completion issued by NPM.

Methodology

Phase	Objective	Duration / Deliverable
Pre-Training Needs Analysis	Collect sample labels/procedures; align to systems, protection settings, and audit findings.	Inputs gathered; scope confirmed.
Arc Flash Fundamentals	Shock vs. arc hazards; NFPA 70E concepts; UAE regulatory context.	2–3 hours.
Labels & Boundaries	Interpret labels; set limited/restricted/arc flash boundaries; approach discipline.	2 hours.
PPE Selection & Use	Category-based/calculated PPE; care/maintenance; insulated tools.	2 hours.
Safe Work Practices	LO/TO; permits; job planning; verification; test-before-touch steps.	3 hours.
Systems & Protection	Clearing times; device coordination; mitigation options and impact on incident energy.	2–3 hours.
Practical Scenarios	Facility-specific case studies; mistakes to avoid; mock permits and job planning.	2 hours.
Formative Quizzes	Reinforce key concepts after each module.	Short quizzes per module.
Practical Assessment	Task cards aligned to your equipment and procedures; demonstrated application.	Observed performance.
Summative Test & Certification	Test on boundaries, PPE, and safe work practices; Certificate of Completion issued.	Certificate by NPM; client retains statutory sign-off.