



**London TDM**

# **Engineering and Technical Skills Training Courses**

**Course Venue:** United Arab Emirates - Dubai

**Course Date:** From 15 March 2026 To 19 March 2026

**Course Place:** Downtown Dubai

**Course Fees:** 5,000 USD

## Introduction

This 5-day professional course on "Electrical Safety and Arc Flash Protection" is designed to provide participants with the knowledge and skills necessary to create a safer working environment around electrical installations. This course covers essential topics such as hazard identification, risk assessment, and practical strategies to mitigate the risks associated with electrical hazards, including arc flash events.

## Objectives

- Understand the fundamentals of electrical safety and the regulatory requirements.
- Identify potential electrical hazards and evaluate associated risks.
- Implement strategies for managing and mitigating electrical hazards.
- Gain expertise in arc flash protection and personal protective equipment (PPE).
- Develop and apply comprehensive safety plans in workplace scenarios.

## Course Outlines

### Day 1: Introduction to Electrical Safety

- Overview of electrical hazards and safety standards
- Key regulatory requirements and standards (e.g., NFPA 70E)
- Principles of electricity and common hazards
- Risk assessment and hazard identification techniques
- Safety culture and its significance in the workplace

### Day 2: Understanding Arc Flash and Its Implications

- Introduction to arc flash: causes and effects
- Arc flash risk assessment and analysis
- Understanding arc flash boundaries and incident energy
- Case studies of arc flash incidents
- Developing an arc flash risk management plan

### Day 3: Protective Strategies and Equipment

- Selection and application of personal protective equipment (PPE)
- Engineering controls and safety devices
- Safe work practices and procedural controls
- Maintenance and inspections for electrical safety
- Role of technology and innovation in arc flash protection

### Day 4: Developing and Implementing Safety Programs

- Components of an effective electrical safety program
- Communication and training for electrical safety
- Incident response and emergency planning
- Audits and continuous improvement in safety practices
- Stakeholder engagement and responsibility assignment

## **Day 5: Practical Applications and Case Studies**

- Simulated exercises and role-playing scenarios
- Group project: Developing a site-specific arc flash protection plan
- Review of real-world case studies
- Presentation of group projects and feedback
- Course recap and action planning for ongoing safety improvement