London TDM

Mechanical and Electrical Engineering Training Courses

Course Venue: United Arab Emirates - Dubai

Course Date: From 28 June 2026 To 02 July 2026

Course Place: Downtown Dubai

Course Fees: 5,000 USD

Introduction

This professional course on "Electrical Codes and Regulations (IEC/NEC Standards)" is designed to provide participants with a comprehensive understanding of the key concepts, codes, and regulations that are crucial in electrical engineering and installations. By the end of this course, participants will have a deeper knowledge of both IEC and NEC standards, enabling them to ensure safety, compliance, and efficiency in electrical systems.

- Understand the fundamentals of IEC and NEC standards.
- Identify key differences and similarities between IEC and NEC codes.
- Apply electrical codes and regulations in practical scenarios.
- Ensure compliance and safety in electrical installations.
- Stay updated with recent changes and updates in electrical codes.

Course Outlines

Day 1: Introduction to Electrical Codes and Standards

- Overview of global electrical standards and regulations
- History and evolution of IEC and NEC standards
- Fundamental principles of electrical safety
- Importance of compliance in electrical projects
- Case studies on non-compliance consequences

Day 2: Understanding IEC Standards

- Overview of the International Electrotechnical Commission (IEC)
- Key IEC standards relevant to electrical installations
- Detailed analysis of IEC 60364 for low-voltage electrical installations
- Applying IEC standards in practical situations
- Updates and changes in recent IEC standards

Day 3: Understanding NEC Standards

- Introduction to the National Electrical Code (NEC)
- Structure and organization of NEC standards
- Review of NEC standards relevant to wiring and protection
- Practical applications of NEC in various industries
- Review of recent amendments in NEC standards

Day 4: Key Differences and Applications of IEC and NEC

- Comparative analysis of IEC and NEC standards
- Understanding global vs. regional applications
- Common challenges faced during implementation
- Case studies illustrating IEC and NEC applications
- Strategies for choosing the appropriate standard

Day 5: Ensuring Compliance and Future Trends

- Developing compliance strategies for electrical projects
- Tools and resources for staying updated on code changes
- Impact of technological advancements on electrical codes
- Future trends in global electrical regulations
- Open discussion and Q&A session