



London TDM

Mechanical and Electrical Engineering Training Courses

Course Venue: Malaysia - Kuala Lumpur

Course Date: From 26 October 2025 To 30 October 2025

Course Place: Royale Chullan Hotel

Course Fees: 6,000 USD

Course Brochure - MEE115/Kuala Lumpur/26 October 2025 By London TDM www.londontdm.com - info@londontdm.com

Introduction

The "Fire Alarm and Protection Systems Engineering" course is designed to equip professionals with comprehensive knowledge and skills necessary for designing, implementing, and maintaining effective fire alarm and protection systems. Participants will delve into fire safety regulations, understand the components and operations of various systems, and explore modern advancements in fire protection technology.

Objectives

- Understand the fundamental principles of fire alarm and protection systems.
- Learn about various types of fire detection and suppression technologies.
- · Gain insights into the design and engineering aspects of fire protection systems.
- Explore the latest advancements in fire safety technology and innovation.
- Develop skills to assess and mitigate fire risks in various environments.

Course Outlines

Day 1: Introduction to Fire Alarm Systems

- Overview of fire protection and safety standards.
- Types and components of fire alarm systems.
- Principles of fire detection and alarm operation.
- Codes and standards (NFPA, local regulations).
- Basic design considerations for alarm systems.

Day 2: Fire Detection Technologies

- Heat and smoke detectors: types and applications.
- Advanced detection methods: flame and gas detectors.
- Integration of detection systems with alarm and suppression systems.
- Case studies of detection system implementations.
- Hands-on demonstration of detection technologies.

Day 3: Fire Suppression Systems

- Overview of suppression systems: sprinklers, extinguishers, and hydrants.
- Design and installation of sprinkler systems.
- Special suppression systems for complex environments.
- Maintenance and testing of suppression systems.
- Interaction between detection and suppression systems.

Day 4: System Design and Integration

- Design principles for integrated fire protection systems.
- Software tools for fire system design and simulation.
- · Challenges in retrofitting existing buildings.
- Interdependence of alarm and suppression systems.
- Industry trends and emerging technologies in system design.

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Day 5: Risk Assessment and Management

- Conducting fire risk assessments for facilities.
- Fire safety planning and emergency preparedness.
- Regulatory compliance and reporting requirements.
- Strategies for minimizing fire risks and hazards.
- Review of best practices and future outlook in fire protection engineering.