



London TDM

Mechanical and Electrical Engineering Training Courses

Course Venue: Malaysia - Kuala Lumpur

Course Date: From 16 November 2025 To 20 November 2025

Course Place: Royale Chullan Hotel

Course Fees: 6,000 USD

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Introduction

The "Heating, Ventilation, and Air Conditioning Systems" course is designed to provide an in-depth understanding of HVAC systems, covering essential concepts, practical applications, and modern technologies. This five-day course is ideal for professionals seeking to enhance their expertise in HVAC design, implementation, and maintenance.

Objectives

- Understand the fundamental principles of HVAC systems.
- · Identify the components and their functions within an HVAC system.
- · Learn the latest technologies and trends in HVAC systems.
- · Develop skills to design and implement efficient HVAC solutions.
- Gain insights into maintenance and troubleshooting of HVAC systems.

Course Outlines

Day 1: Introduction to HVAC Systems

- · Overview of HVAC systems and their importance
- · Basic principles of heating, ventilation, and air conditioning
- · Types and classifications of HVAC systems
- · Introduction to thermodynamics in HVAC systems
- Understanding indoor air quality and its impact

Day 2: Components and Operation of HVAC Systems

- Detailed analysis of HVAC system components
- Understanding refrigeration cycles and heat exchange
- · Air distribution systems and ductwork design
- · Control systems and automation in HVAC
- · Case studies of different HVAC system configurations

Day 3: HVAC System Design and Implementation

- Steps in designing an efficient HVAC system
- Load calculations and sizing of HVAC components
- Energy efficiency and sustainability considerations
- · Regulatory standards and compliance
- Practical session: Designing a basic HVAC system

Day 4: Advanced HVAC Technologies

- Introduction to smart HVAC systems
- Renewable energy integration in HVAC
- · Innovative technologies in heating and cooling
- Indoor air quality management systems
- Future trends and predictions in HVAC technology

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Day 5: Maintenance, Troubleshooting, and Best Practices

- Routine maintenance procedures for HVAC systems
- Techniques for troubleshooting and solving common issues
- Ensuring optimal performance and longevity of systems
- · Health, safety, and environmental considerations
- Interactive session: Solving real-world HVAC problems