London TDM

Mechanical and Electrical Engineering Training Courses

Course Venue: Malaysia - Kuala Lumpur

Course Date: From 26 July 2026 To 30 July 2026

Course Place: Royale Chullan Hotel

Course Fees: 6,000 USD

Introduction:

The "Energy Efficiency in MEP Systems" course is designed to equip mechanical, electrical, and plumbing professionals with the knowledge and skills necessary to implement and manage energy-efficient practices within MEP systems. Over five days, participants will engage with the principles of energy efficiency, explore innovative technologies, and learn how to design, operate, and retrofit MEP systems to optimize energy use, reduce costs, and minimize environmental impact.

Objectives:

- Understand the fundamentals of energy efficiency in MEP systems.
- Learn to identify opportunities for energy savings and efficiency improvements.
- Explore technologies and strategies for enhancing energy efficiency.
- Develop skills to design and retrofit MEP systems for optimal energy performance.
- Assess and improve the operational efficiency of existing MEP systems.

Course Outlines:

Day 1: Introduction to Energy Efficiency in MEP Systems

- Overview of MEP systems and their energy impact
- Key concepts and metrics of energy efficiency
- Global trends and regulations in energy efficiency
- The role of MEP systems in sustainable building design
- Case studies of successful energy-efficient MEP systems

Day 2: Identifying Energy Efficiency Opportunities

- Energy audits and benchmarking processes
- Identifying inefficiencies in existing MEP systems
- Analyzing energy consumption data
- Tools and software for energy management
- Developing an energy efficiency action plan

Day 3: Technologies and Strategies for Energy Efficiency

- Advanced HVAC technologies and solutions
- Efficient lighting systems and controls
- Water conservation techniques in plumbing systems
- Building automation and smart technologies
- Integration of renewable energy sources

Day 4: Designing and Retrofitting for Energy Efficiency

- Principles of energy-efficient system design
- Strategies for retrofitting existing systems
- Cost-benefit analysis of energy-efficient upgrades
- Incorporating energy modeling and simulation
- Success stories of retrofitted MEP systems

Day 5: Operational Efficiency and Continuous Improvement

- Monitoring and maintaining energy-efficient systems
- Behavioral change and stakeholder engagement
- Continuous improvement strategies
- Reporting and documenting energy performance
- Certification and recognition programs