



London TDM

Mechanical and Electrical Engineering Training Courses

Course Venue: United Arab Emirates - Dubai

Course Date: From 02 November 2025 To 06 November 2025

Course Place: Downtown Dubai

Course Fees: 5,000 USD

Introduction

This intensive 5-day course is designed for professionals seeking to deepen their understanding of motors and drives. Participants will learn how to select the right types of motors and drives for different applications, understand the principles behind their operations, and gain practical skills in maintenance for optimal performance. Our expert instructors will provide both theoretical knowledge and hands-on experience to ensure a comprehensive learning experience.

Objectives

- Understand the types and functions of motors and drives in industrial applications.
- Learn criteria for the selection of suitable motors and drives based on specific operational requirements.
- Gain insight into common problems and troubleshooting techniques.
- Acquire skills in preventive and corrective maintenance to extend equipment lifespan.
- Develop an understanding of recent advancements and emerging technologies in motor and drive systems.

Course Outlines

Day 1: Introduction to Motors and Drives

- Overview of motor types and their applications
- Basic principles of drive systems
- Key components and their functions
- Introduction to control systems for motors and drives
- Safety measures and standards in motor operations

Day 2: Selection Criteria for Motors

- Factors influencing motor selection
- Evaluating performance characteristics
- Energy efficiency considerations
- Cost analysis and budget considerations
- Case studies of motor selection in various industries

Day 3: Drive Systems and Their Applications

- Types of drive systems and their applications
- Understanding speed torque characteristics
- Selection of drive components and power ratings
- Integration of drives with motor systems
- Case studies on drive applications

Day 4: Maintenance Best Practices

- Routine maintenance and checks
- Common troubleshooting techniques
- Diagnosing and rectifying faults

- Preventive maintenance strategies
- Record-keeping and documentation

Day 5: Emerging Technologies and Trends

- Recent advancements in motor technology
- Smart motors and IoT applications
- Energy-saving technologies and green initiatives
- Future trends in motors and drives
- Wrap-up session and panel discussion