



London TDM

# Engineering and Technical Skills Training Courses

**Course Venue:** United Arab Emirates - Dubai

**Course Date:** From 23 November 2025 To 27 November 2025

**Course Place:** Downtown Dubai

**Course Fees:** 5,000 USD

## Introduction

The "Industrial Internet of Things (IIoT) Applications" course is designed to provide professionals with a comprehensive understanding of how IIoT transforms industrial landscapes. Over five days, participants will explore the integration of IIoT in various sectors, focusing on practical applications, technologies, and strategic implementation to enhance operational efficiency and innovation.

## Objectives

- Understand the fundamentals of IIoT and its industrial applications.
- Explore key technologies that enable IIoT systems.
- Examine real-world case studies and their outcomes.
- Identify challenges and solutions in IIoT implementation.
- Learn to develop strategic plans for integrating IIoT in industries.

## Course Outlines

### Day 1: Introduction to IIoT

- Overview of IIoT and its significance in modern industries.
- Key differences between IoT and IIoT.
- Fundamental components of IIoT systems.
- Benefits of implementing IIoT in industrial settings.
- Exploring different industrial sectors utilizing IIoT.

### Day 2: Enabling Technologies for IIoT

- Sensors and actuators in IIoT applications.
- Connectivity options and protocols used in IIoT.
- Edge computing and its role in IIoT.
- Cloud infrastructure and IIoT data management.
- Cybersecurity measures for IIoT environments.

### Day 3: Applications and Case Studies

- IIoT in manufacturing and production optimization.
- Smart maintenance and predictive analytics.
- Energy management and smart grids.
- Supply chain optimization and asset tracking.
- Examining successful IIoT case studies.

### Day 4: Challenges and Solutions in IIoT

- Integration challenges with legacy systems.
- Data privacy and ownership issues.
- Scalability and network management.
- Addressing interoperability concerns.
- Solutions and best practices for overcoming challenges.

## **Day 5: Strategic Planning and Implementation**

- Identifying business objectives and IIoT opportunities.
- Developing an IIoT implementation roadmap.
- Change management for IIoT adoption.
- Measuring success and ROI in IIoT projects.
- Future trends and developing skills for IIoT.