



London TDM

# Quality and Productivity Improvement Training Courses

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

**Course Date:** From 16 November 2025 To 20 November 2025

**Course Place:** Downtown Dubai

**Course Fees:** 5,000 USD

## Introduction

Failure Mode and Effects Analysis (FMEA) is a systematic method for evaluating processes to identify where and how they might fail and assessing the relative impact of different failures. This professional course is designed to equip participants with the necessary skills and knowledge to effectively implement and manage FMEA in their organizations.

- Understand the principles and concepts of FMEA
- Learn how to identify potential failure modes in processes and products
- Develop skills to prioritize risks and implement corrective actions
- Explore real-world applications of FMEA across various industries
- Gain hands-on experience through workshops and case studies

## Course Outlines

### Day 1: Introduction to FMEA

- Definition and History of FMEA
- Types of FMEA: Design, Process, and System
- Benefits and Limitations of FMEA
- Understanding the FMEA Process Steps
- Introduction to Risk Priority Number (RPN)

### Day 2: FMEA Process Steps

- Step 1: Assembling the FMEA Team
- Step 2: Defining the Scope and Objectives
- Step 3: Identifying Failure Modes and Effects
- Step 4: Determining Severity, Occurrence, and Detection
- Workshop: Creating a FMEA Worksheet

### Day 3: Risk Assessment and Prioritization

- Calculating Risk Priority Number (RPN)
- Criteria for Prioritizing Failure Modes
- Determining Corrective Actions
- Sensitivity Analysis in FMEA
- Case Study: Risk Assessment Application

### Day 4: Implementing and Monitoring FMEA

- Developing Action Plans
- Implementation Strategies
- Monitoring and Reviewing FMEA Effectiveness
- Updating and Maintaining FMEA Documentation
- Workshop: Real-Life Implementation Challenges

### Day 5: Advanced Topics in FMEA

- Integrating FMEA with Other Quality Tools
- Software Tools for FMEA Management
- Future Trends in FMEA
- Industry-Specific Applications of FMEA
- Group Exercise: Developing a Comprehensive FMEA Plan