London TDM

Quality and Productivity Improvement Training Courses

Course Venue: Malaysia - Kuala Lumpur

Course Date: From 21 June 2026 To 25 June 2026

Course Place: Royale Chullan Hotel

Course Fees: 6,000 USD

Introduction

The "Six Sigma Fundamentals and Tools" course is designed to provide professionals with a structured methodology and a set of skills to improve business processes and performance. Six Sigma is a disciplined, data-driven approach aimed at achieving near-perfect quality. This course will cover the basics, critical tools, and applications necessary to improve processes effectively across various industries.

Objectives

- Understand the principles and benefits of Six Sigma.
- Learn the DMAIC (Define, Measure, Analyze, Improve, Control) process improvement cycle.
- Gain familiarity with essential Six Sigma tools and techniques.
- Apply Six Sigma methodologies to real-world business problems.
- Build a foundation for continued Six Sigma certification and training.

Course Outlines

Day 1: Introduction to Six Sigma

- Overview of Six Sigma principles and history
- Understanding the importance and benefits of Six Sigma
- Role of Six Sigma in quality improvement and business strategy
- Introduction to the DMAIC methodology
- Key roles and responsibilities in a Six Sigma project

Day 2: Define Phase

- Understanding customer requirements and voice of the customer (VOC)
- Defining project goals and problem statements
- Developing project charters and scoping projects
- Tools for process mapping and SIPOC diagrams
- Stakeholder analysis and management techniques

Day 3: Measure Phase

- Identifying key performance indicators (KPIs)
- Data collection methods and best practices
- Introduction to statistical measures: mean, median, variance
- Understanding process capability and baseline performance
- Using tools like the Pareto chart and histogram

Day 4: Analyze Phase

- Root cause analysis techniques: 5 Whys and Fishbone diagrams
- Understanding and performing hypothesis testing
- Data analysis using basic statistical techniques
- Regression analysis and correlation studies
- Prioritizing potential causes and identifying solutions

Day 5: Improve and Control Phases

- Developing and selecting solutions using brainstorming and other tools
- Pilot testing and implementing process improvements
- Introduction to control charts and how to use them
- Standardizing processes and documenting changes
- Ensuring sustainability and continuous improvement