



*Training Course:
Six Sigma Green Belt*

4 - 8 May 2025

Dubai (UAE)

Residence Inn by Marriott Sheikh Zayed Road, Dubai

Training Course: Six Sigma Green Belt

Training Course code: MA235742 From: 4 - 8 May 2025 Venue: Dubai (UAE) - Residence Inn by Marriott Sheikh Zayed Road, Dubai Training Course Fees: 4500 € Euro

Introduction

The Six Sigma Green Belt training program equips professionals with the knowledge and tools to drive process improvement initiatives within their organizations. Using the DMAIC Define, Measure, Analyze, Improve, and Control methodology, participants will learn how to reduce defects, improve efficiency, and enhance quality in business processes.

This program focuses on practical applications of Six Sigma principles, integrating data-driven decision-making, statistical analysis, and root cause identification to minimize waste and improve customer satisfaction. Through interactive case studies, hands-on exercises, and real-world applications, attendees will gain the skills necessary to lead and support Six Sigma projects.

Course Objectives

By the end of this training, participants will be able to:

- Understand the principles and benefits of Six Sigma methodology.
- Implement the DMAIC process to systematically solve problems.
- Use statistical tools and techniques to analyze and improve processes.
- Identify and eliminate waste, reducing defects and inefficiencies.
- Align process improvement efforts with organizational goals.
- Apply data-driven decision-making for continuous improvement.
- Lead and support Six Sigma projects within their departments.

Target Audience

This program is ideal for:

- Process Improvement Professionals
- Quality Control Managers & Engineers
- Operations & Manufacturing Managers
- Business Analysts & Project Managers
- IT & Service Industry Professionals
- Team Leaders and Supervisors looking to improve operational efficiency
- Anyone involved in process optimization and continuous improvement

Training Program Outline

Day 1: Introduction to Six Sigma and DMAIC Methodology

- Overview of Six Sigma and Lean principles
- The importance of quality and process efficiency
- Understanding roles and responsibilities in Six Sigma projects
- Introduction to the DMAIC methodology
- Key statistical concepts and process metrics
- Case study: Real-world Six Sigma applications

Day 2: Define & Measure Phase - Identifying and Quantifying Problems

- Defining the problem statement and project goals
- Developing a SIPOC Suppliers, Inputs, Process, Outputs, Customers Diagram
- Identifying Critical to Quality CTQ factors
- Understanding process mapping & value stream analysis
- Measuring process performance using data collection techniques
- Hands-on activity: Defining a process improvement project

Day 3: Analyze Phase - Root Cause Analysis and Data Interpretation

- Identifying root causes using Fishbone Diagram & 5 Whys
- Conducting statistical analysis for problem identification
- Introduction to Hypothesis Testing and Pareto Analysis
- Using control charts for process variation analysis
- Hands-on exercise: Applying problem-solving techniques

Day 4: Improve Phase - Implementing Solutions and Best Practices

- Developing and testing process improvement solutions
- Introduction to Design of Experiments DOE
- Implementing Lean tools 5S, Kanban, Kaizen, Poka-Yoke
- Cost-benefit analysis of potential solutions
- Pilot testing and risk assessment
- Interactive workshop: Developing an improvement plan

Day 5: Control Phase - Sustaining Improvements & Certification Exam

- Creating a process control plan
- Implementing Statistical Process Control SPC
- Establishing standard operating procedures SOPs
- Monitoring and sustaining process improvements
- Preparing for the Six Sigma Green Belt certification exam
- Final assessment and feedback session

Registration form on the Training Course: Six Sigma Green Belt

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