



Consulting and Training | Reach New Heights

Course Name

Six Sigma Green Belt Process Optimization for Professionals

Sector Name

Quality Management & Operational Excellence

Document Type

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Six Sigma Green Belt Process Optimization for Professionals

Course Introduction

This version of the Six Sigma Green Belt training focuses on equipping professionals with not only the foundational DMAIC methodology but also advanced tools and strategic frameworks that help institutionalize process improvement.

Participants will gain broader exposure to Lean-Six Sigma synergy, business alignment, and sustainability techniques that ensure long-term operational excellence.

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Target Audience

- ✓ Process and Quality Engineers
- ✓ Mid-level Managers and Team Leaders
- ✓ Operational Excellence Practitioners
- ✓ Business Analysts and Improvement Coordinators
- ✓ Anyone seeking to lead or support process improvement initiatives

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Learning Objectives

- ✓ Master the DMAIC framework and core Six Sigma tools.
- ✓ Apply data analysis, root cause techniques, and performance metrics effectively.
- ✓ Leverage Lean methodologies to eliminate waste and streamline processes.
- ✓ Implement control strategies to sustain gains over time.
- ✓ Explore advanced Six Sigma tools for greater analytical depth.
- ✓ Align process optimization efforts with strategic business objectives.
- ✓ Build systems and culture that support continuous improvement.

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Course Outline

✓ DAY 01

Foundations of Six Sigma and the DMAIC Approach

- ✓ What is Six Sigma? History and evolution
- ✓ Understanding variation and its impact on quality
- ✓ The DMAIC methodology overview
- ✓ Roles and responsibilities: Green Belt and project team
- ✓ Metrics: DPMO, Sigma Level, Yield
- ✓ Introduction to Lean Thinking
- ✓ Project success factors and organizational alignment

Define Phase - Project Planning and VOC

- ✓ Project selection and prioritization criteria
- ✓ Voice of the Customer (VOC) techniques
- ✓ Translating VOC into CTQs (Critical to Quality)
- ✓ SIPOC diagram creation
- ✓ Writing an effective project charter
- ✓ Stakeholder identification and management
- ✓ High-level process mapping

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Course Outline

✓ Day 02

Measure Phase - Process Analysis and Data Collection

- ✓ Mapping the current process in detail
- ✓ Defining performance metrics
- ✓ Types of data (discrete, continuous)
- ✓ Data collection planning
- ✓ Measurement System Analysis (MSA)
- ✓ Introduction to capability analysis (Cp, Cpk)
- ✓ Establishing the baseline and gap analysis

Analyze Phase - Root Cause Tools and Data Interpretation

- ✓ Using Fishbone diagrams and 5 Whys
- ✓ Pareto analysis for prioritizing causes
- ✓ Scatter plots, histograms, and box plots
- ✓ Hypothesis testing for identifying significant factors
- ✓ Regression analysis overview
- ✓ Failure Mode and Effects Analysis (FMEA)
- ✓ Determining and validating root causes

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Course Outline

✓ Day 03

Improve Phase - Solution Development and Implementation

- ✓ Idea generation and solution prioritization
- ✓ Lean improvement tools (Kaizen, 5S, Poka-Yoke)
- ✓ Design of Experiments (DoE) basics
- ✓ Cost-benefit and impact analysis
- ✓ Developing and testing pilot solutions
- ✓ Risk mitigation planning
- ✓ Communication and change planning

Control Phase - Sustainability and Standardization

- ✓ Developing control plans and response strategies
- ✓ Control charts and real-time monitoring
- ✓ Visual management and audit tools
- ✓ Documenting standard operating procedures
- ✓ Transitioning process ownership
- ✓ Measuring success and feedback loops
- ✓ Institutionalizing continuous improvement

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Course Outline

✓ Day 04

Lean Six Sigma Integration and Waste Elimination

- ✓ Deep dive into Lean principles (Just-in-Time, Flow, Pull Systems)
- ✓ The 8 Wastes (TIMWOODS) in detail
- ✓ Value Stream Mapping: current vs future state
- ✓ Kanban and visual control systems
- ✓ SMED and setup time reduction
- ✓ Balancing takt time and demand
- ✓ Integrating Lean tools with DMAIC

Advanced Tools for Green Belts

- ✓ Advanced DAX and SPC charting (X-bar, R, I-MR, P, U)
- ✓ Using control limits effectively
- ✓ Attribute data and defect classification
- ✓ Process capability with non-normal data
- ✓ Confidence intervals and descriptive analytics
- ✓ Gage R&R: repeatability and reproducibility
- ✓ Matrix diagram and interrelationship digraph

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✓ Day 05

Strategic Process Alignment and Enterprise Impact

- ✓ Aligning Six Sigma projects with business KPIs
- ✓ The role of executive sponsorship and strategic steering
- ✓ Process optimization in cross-functional environments
- ✓ Building a Six Sigma governance model
- ✓ Balancing short-term wins with long-term transformation
- ✓ Integration with performance management systems
- ✓ Maturity models for process improvement cultures

Sustaining a Culture of Continuous Improvement

- ✓ Embedding continuous improvement into daily work
- ✓ Recognizing and rewarding improvement initiatives
- ✓ Developing internal champions and peer mentoring
- ✓ Creating an idea pipeline for future projects
- ✓ Regular auditing and process health checks
- ✓ Role of digital transformation in sustaining gains
- ✓ Final consolidation of DMAIC and next steps for practitioners

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Confirmed Sessions

FROM	TO	DURATION	FEES	LOCATION
Jan. 10, 2027	Jan. 14, 2027	5 days	4250.00 \$	KSA , Riyadh
Aug. 24, 2026	Aug. 28, 2026	5 days	4250.00 \$	UAE , Abu Dhabi
April 13, 2026	April 17, 2026	5 days	4950.00 \$	Spain , Madrid
Nov. 23, 2026	Nov. 27, 2026	5 days	4250.00 \$	UAE , Abu Dhabi

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