



Quality Management & Operational Excellence

Lean Six sigma – Black Belt

Course Introduction

The lean six sigma master black belt training course is the topmost qualification that professionals with functions related to six sigma can obtain. The master black belt demonstrates absolute expertise of lean six sigma; hence, it is highly sought after. The master black belt training builds upon skills attained from previous belt levels and expands these to a strategic level. Participants will be able to acquire the skills and capabilities to construct business frameworks that will assist progression of organization.

Target Audience

- practitioners in quality and audits
 - Senior members and managers of organisations who need to understand the significance of training employees on quality management
 - Quality team members
 - Professionals aspiring to undertake a quality-related certification
 - Construction project owners
 - Design consultants
 - Construction contractors
- Architects
- Non-engineering construction professionals

Learning Objectives

- Gain A Comprehensive Understanding Of The Six Sigma Six Sigma Roles And Responsibilities Including Process Owners And Champions
- Learn The Concept About Six Sigma Strategic Planning And Apply The Tools And Best Practices.
- Identify Ways To Oversee And Select Six Sigma Projects.

- Be Equip With The Concepts, Knowledge And Principles Of Lean Six Sigma Phases And Pass The Examination As Master Black Belt Practitioner.

Course Outline

• 01 DAY ONE

STRATEG IC PLANNING

- Strategic Planning Tools
- Interviews and Data Gathering
- Competitive Benchmarking
- Corporate Alignment
- Business Performance Measures

• 02 DAY TWO

GOVERNANCE AND INFR ASTRUCTURE

- Six Sigma Roles and Responsibilities including Process Owners and Champions
- Steering committees, Resource allocation,
- Training Models and Traps, Certification, Green Belt, Black Belt, and Champion Mentoring
- Rewards and Recognition

CHANGE MANAGEMENT

- Change Management Execution
- Organizational Readiness Assessment
- Branding and Marketing the Initiative, Creating a Burning Platform

• 03 DAY THREE

CHANGE MANAGEMENT

- Stakeholder Analysis, Influence Strategies, Communication
- Organizational Change and Cultural Change Strategies

PROCESS MANAGEMENT

- Process Leveling

- Establishing Process Metrics /Key Process Indicators
- Cost of Poor Quality, Cost Benefit Analysis, Return on Investment
- Lean Six Sigma Program Management (Tollgate Reviews, Annual Review)

• **04 DAY FOUR**

PROJECT SELECTION AND OVERSIGHT

- Project Selection Criteria, Project Prioritization, and Project Scope
- Project Mentoring, Team Facilitation, Group Dynamics,
- Project Results, Project Replication and Project Intervention

ADDITIONAL IMPROVEMENT METHODS

- DFSS, DMADV, LEAN concepts
- Theory of Constraints
- Process Re Engineering and TQM

• **05 DAY FIVE**

ADVANCED TOOLS AND TECHNIQUES

- Advanced use of Minitab
- Hoshin Kanri a management process for directing work towards a key strategic initiative (a hoshin).
- Advanced VoC (Voice of the Customer) a process used to capture requirements and feedback from the customer.
- Quality Functional Deployment
- Measurement Systems Analysis
- Nested vs Crossed models
- General Linear Model
- Analysis of Covariance
- Multicollinearity
- Advanced Logistic Regression
- Handling messy data including transformations
- Multi variate analysis

Confirmed Sessions

FROM	TO	DURATION	FEE\$	LOCATION
May 4, 2025	May 8, 2025	5 days	4250.00 \$	KSA - Jeddah
July 20, 2025	July 24, 2025	5 days	2150.00 \$	Virtual - Online
Aug. 4, 2025	Aug. 8, 2025	5 days	4950.00 \$	Azerbaijan - Baku
Nov. 2, 2025	Nov. 6, 2025	5 days	4250.00 \$	KSA - Riyadh