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Course Name

Six Sigma Certification in Supply Chain

Sector Name

Procurement & Supply Chain Operations

Document Type

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Six Sigma Certification in Supply Chain

Course Introduction

This training program is tailored to professionals seeking to apply Six Sigma methodologies within the supply chain context, covering DMAIC phases, statistical tools, waste elimination, and process optimization.

The training program prepares participants to drive measurable improvements across sourcing, procurement, logistics, and inventory operations while laying the foundation for certification-level readiness.

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Six Sigma Certification in Supply Chain

Target Audience

- ✓ Supply Chain Managers and Coordinators
- ✓ Process Improvement Professionals
- ✓ Quality and Operational Excellence Specialists
- ✓ Logistics and Procurement Analysts
- ✓ Industrial Engineers and Continuous Improvement Leads
- ✓ Professionals preparing for Lean Six Sigma Green/Black Belt certifications

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Learning Objectives

- ✓ Understand Six Sigma principles and their relevance to supply chain operations.
- ✓ Apply the DMAIC methodology to identify and solve supply chain problems.
- ✓ Use data-driven decision-making tools to analyze process variation and defects.
- ✓ Reduce waste, improve lead times, and increase customer satisfaction.
- ✓ Develop and interpret process capability and performance metrics.
- ✓ Integrate Lean and Six Sigma techniques for greater supply chain efficiency.

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Course Outline

✓ Day 01

Introduction to Six Sigma in Supply Chain

- ✓ The origin and evolution of Six Sigma
- ✓ Benefits of Six Sigma in supply chain environments
- ✓ Key terminology: defects, variation, DPMO, sigma levels
- ✓ Relationship between quality, cost, and time in logistics
- ✓ Identifying common supply chain inefficiencies
- ✓ Overview of Lean vs. Six Sigma vs. Lean Six Sigma
- ✓ Introducing the DMAIC framework

Define Phase - Problem and Goal Definition

- ✓ Clarifying customer needs and CTQs (Critical to Quality)
- ✓ SIPOC (Suppliers, Inputs, Process, Outputs, Customers) mapping
- ✓ Scoping Six Sigma projects in supply chain settings
- ✓ Project charter development and alignment with business goals
- ✓ Voice of the Customer (VOC) in supply chain services
- ✓ Stakeholder identification and management
- ✓ Risk and opportunity assessment



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Course Outline

✓ Day 02

Measure Phase - Data Collection and Baseline

- ✓ Types of supply chain data and sources
- ✓ Measurement system analysis and Gage R&R
- ✓ Process mapping: swimlane and value stream mapping
- ✓ Defect and variation identification in supply chain processes
- ✓ Baseline performance: calculating DPMO, sigma level
- ✓ Data stratification techniques
- ✓ Time studies and takt time analysis

Analyze Phase - Root Cause Identification

- ✓ Root cause analysis using fishbone diagrams and 5 Whys
- ✓ Pareto analysis of supply chain problems
- ✓ Hypothesis testing basics (p-value, confidence level)
- ✓ Identifying variation drivers in logistics and procurement
- ✓ Regression and correlation in supply chain analysis
- ✓ Failure Mode and Effects Analysis (FMEA)
- ✓ Interpreting cause-and-effect for action prioritization

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Course Outline

✓ Day 03

Improve Phase - Solutions and Pilot Testing

- ✓ Generating solution alternatives (brainstorming, benchmarking)
- ✓ Lean tools in supply chain: 5S, Kanban, Kaizen, SMED
- ✓ Design of Experiments (DOE) for optimization
- ✓ Piloting improvements and evaluating results
- ✓ Risk mitigation strategies in implementation
- ✓ Cost-benefit analysis for improvement options
- ✓ Solution selection matrices and stakeholder buy-in

Control Phase - Sustaining Results

- ✓ Statistical Process Control (SPC) charts in the supply chain
- ✓ Implementing process controls and visual management
- ✓ Control plans for procurement, warehousing, and transport
- ✓ Audit and compliance mechanisms
- ✓ Response plans for deviation
- ✓ Institutionalizing best practices
- ✓ Project closure



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Course Outline

✓ Day 04

Integrating Lean into Supply Chain Six Sigma

- ✓ Understanding Lean principles in the supply chain
- ✓ Types of waste (Muda) in supply chain operations
- ✓ Lean tools: value stream mapping, standard work, Heijunka
- ✓ Pull systems and inventory reduction
- ✓ Role of takt time in synchronizing supply and demand
- ✓ Combining Lean and Six Sigma in hybrid projects
- ✓ Lean Six Sigma success examples in logistics

Statistical Tools for Supply Chain

- ✓ Descriptive statistics and process metrics
- ✓ Control charts for discrete and continuous data
- ✓ Capability indices: Cp, Cpk, Pp, Ppk
- ✓ Box plots, histograms, scatterplots
- ✓ Minitab/Excel tools for Six Sigma
- ✓ Confidence intervals and sampling techniques
- ✓ Avoiding statistical pitfalls in decision-making



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Course Outline

✓ Day 05

Advanced Applications in Supply Chain

- ✓ Inventory optimization using Six Sigma tools
- ✓ Reducing order cycle time and lead time
- ✓ Supplier quality management using Six Sigma
- ✓ Transportation process improvement
- ✓ Warehouse layout and efficiency analysis
- ✓ Forecast accuracy and demand planning
- ✓ Automation and digital integration in Six Sigma projects

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Confirmed Sessions

FROM	TO	DURATION	FEES	LOCATION
May 10, 2027	May 14, 2027	5 days	4950.00 \$	Austria , Vienna
Oct. 12, 2026	Oct. 16, 2026	5 days	2150.00 \$	Virtual , Online
Jan. 10, 2027	Jan. 14, 2027	5 days	4250.00 \$	KSA , Riyadh
Aug. 8, 2027	Aug. 12, 2027	5 days	4250.00 \$	Qatar , Doha

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