









Lean Six Sigma Black Belt (LSSBB)

Course designed to help you learn, transform performance and always stay in the forefront of trends in a continually evolving business world!

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Overview

Lean Six Sigma Black Belt (LSSBB) course focuses on providing students with comprehensive understanding of both the complementary domains of Lean and Six Sigma. It covers tools and techniques useful to improve the production process, reduce waste and minimize defects in the end product with a greater focus on the practical implementation of these tool and techniques in the organization. The participants will definitely be able to use the knowledge gained in

this course in leading various critical projects in their respective organizations.

This course focuses on enabling the student not only to be able to lean relate Lean Six Sigma concepts to the overall business mission and objectives but also be able to define, present and manage lean six sigma projects.



Certification

Applicants will be awarded the Lean Six Sigma Black Belt (LSSBB) certificate by 6Sigmastudy upon successfully passing the certification exam, which is a 3 hour online multiple choice exam. Exams are administered by 6Sigmastudy and Need to schedule the exam in advance using the membership account or taken at a time convenient to you. The cost of exam is included in the course fee (2 free re-takes included)



Who should attend?

- Project Managers
- Software Professionals,
- Business Analysts
- Business Managers



Prerequisite

Professionals keen on taking the Lean Six Sigma Black Belt (LSSBB) certification are required to be certified in Lean Six Sigma Green Belt (LSSGB)



Expected Learning Outcomes

- Gain comprehensive knowledge about the tool and techniques, advantages, and challenges of the Six Sigma methodology.
- Apply DMAIC (Define, Measure, Analyze, Improve, and Control) and various six sigma tools in process and quality improvement.
- Communicate using Six Sigma concepts.
- Assess and manage project risk.
- Avoid pitfalls in implementing six sigma.
- Be armed with the proper tools to address, resolve, and take the lead on production issues in their organizations.



Syllabus

Introduction to Six Sigma

- A brief history of Quality
- What is Quality (Definitions) and service or product
- Quality Gurus & their contribution to Quality
- Enterprise wide View
- Leadership
- Six Sigma Roles and Responsibilities
- Team Formation
- Team Facilitation
- Team Dynamics
- Time Management For Teams
- Team Decision making Tools
- Management and Planning Tools
- Team Performance Evaluation And Rewards
- Overview of DMAIC

Six Sigma Methodology – Define

- Important Stakeholders
- Impact On Stakeholders
- Critical To Requirements
- Benchmarking
- Business performance measures
- Financial measures
- VOC
- Kano's Customer Satisfaction Levels
- Juran's Customer Needs
- Market Research
- CTQ Flowdown
- QFD
- Performance Metrics
- Project Charter
- Charter Negotiation
- Project management plan and Baselines
- Project Tracking

Six Sigma Methodology – Measure

- Processes, Process characteristics, process flow metrics, inputs and outputs
- Process maps and Flow chart
- SIPOC
- Data Type & Measurement scale
- Data Collection
- Sampling strategies
- Fishbone Diagram
- Relational Matrices or Prioritization Matrix
- Basic Statistics

- Analytical Statistics
- Gauge R & R
- Process Capability Analysis

Six Sigma Methodology – Analyze

- Correlation and Regression Analysis
- Testing of Hypothesis
- FMEA
- Gap Analysis
- The Five Whys
- Pareto Diagram
- Tree Diagram
- Non value added activities
- Cost of poor Quality (COPQ)

Six Sigma Methodology – Improve

- DOE
- Poka-yoke
- 5S
- SMED
- Continuous Flow Manufacturing
- Kaizen
- Kanban
- Theory of constraints
- Risk analysis

Six Sigma Methodology – Control

- Statistical Process Control
- Other Control Tools
- Maintain Controls
- Sustaining Improvements

DFSS

More on Lean

- A Value Stream Map
- Lean is Speed
- Total Supply Chain
- Lean Six Sigma Logistics

Case Study 1

- Part 1
- Part 2

Case Study 2

- Part 1
- Part 2

About SwissKnowledge

SwissKnowledge is a brand of Swiss Expert Consulting GmbH, designed to deliver training and consulting services to individuals and corporate customers

MAKE SMATER AND BETTER INVESTMENT ”

People Development

COURSES PORTFOLIO

SCRUM & AGILE

- Scrum Developer Certified (SDC)
- Scrum Master Certified (SMC)
- Scrum Product Owner Certified (SPOC)
- Agile Master Certified (SAMC)
- Agile Scrum Master (ASM)

PROJECT MANAGEMENT

- Project Management Professional
- PMI Risk Management Professional
- PRINCE2 Foundation & Practitioner
- MSP Foundation & Practitioner
- CBAP

QUALITY MANAGEMENT

- Six Sigma Green Belt (SSGB)
- Six Sigma Black Belt (SSBB)
- Lean Six Sigma Green Belt (LSSGB)
- Lean Six Sigma Black Belt (LSSBB)

IT SERVICE MANAGEMENT

- ITIL Foundation
- ITIL 4 Foundation

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✉ contact@swissknowledge.org

☎ +41 79 315 28 99