Lean Six Sigma Black Belt (LSSBB) Training

Category: Infrastructure & IT Operations | **Vendor:** IASSC

Rating: ⭐ 4.6 (5,878 reviews)

Course Information

Delivery Format:	Instructor Led - Online
Certification:	Lean Six Sigma Black Belt (LSSBB)
Related Exam:	LSSBB

Course Overview

Companies that implement Lean Six Sigma see up to a 40% reduction in operational costs and 50% improvements in process efficiency, and certified Lean Six Sigma Black Belts are the ones leading that transformation. This Lean Six Sigma Black Belt training course equips you to drive measurable change through data, structure, and strategy. Through a rigorous 10-day program delivered over five weeks, you'll gain the tools, strategies, and analytical skills to lead high-impact projects using DMAIC or DMADV. From streamlining operations to eliminating root causes of waste, this course equips you to drive transformation backed by data, not guesswork. Upon successful completion, you'll earn your LSSBB certification from Project Management Academy®, accredited by the Council for Six Sigma Certification (CSSC). This isn't just a credential; it's a career accelerator for professionals ready to lead real change.

About This Course

Companies that implement Lean Six Sigma see up to a 40% reduction in operational costs and 50% improvements in process efficiency, and certified Lean Six Sigma Black Belts are the ones leading that transformation. This Lean Six Sigma Black Belt training course equips you to drive measurable change through data, structure, and strategy. Through a rigorous 10-day program delivered over five weeks, you'll gain the tools, strategies, and analytical skills to lead high-impact projects using DMAIC or DMADV. From streamlining operations to eliminating root causes of waste, this course equips you to drive transformation backed by data, not guesswork. Upon successful completion, you'll earn your LSSBB certification from Project Management Academy®, accredited by the Council for Six Sigma Certification (CSSC). This isn't just a credential; it's a career accelerator for professionals ready to lead real change.

Who Should Attend

This workshop is ideal for professionals across industries who are responsible for improving processes or leading change. This includes managers, team leaders, supervisors, process improvement specialists, and anyone eager to improve efficiency, reduce waste, and deliver more value to customers.

Prerequisites & Entry Requirements

General Prerequisites:

- Official courseware, practical tools, and templates
- Lean Six Sigma Black Belt certification exam included
- Final project submission with instructor review
- 6-month license for Minitab software
- 80 PDUs and certificate of completion
- Access to class recordings for 90 days
- Guaranteed-to-run dates (where applicable)
- Flexible rescheduling (conditions apply)

Learning Outcomes

Upon successful completion of this course, participants will be able to:

This course equips you with the strategies, tools, and data analysis skills to lead process improvement efforts at an enterprise level. By the end, you'll be prepared to drive lasting change and earn your LSSBB credential. Launch and lead Six Sigma initiatives across teams Use DMAIC/DMADV to solve high-impact business problems Identify and eliminate root causes of inefficiencies Conduct advanced statistical analysis using Minitab Implement control plans to sustain long-term improvements

Detailed Course Outline

Introduction

- Course Overview
- Fundamentals
- Roles and Responsibilities
- Lean vs. Six Sigma
- Learning Assessment

Lean Foundations

- Core Lean Concepts
- Lean Fundamentals
- Traditional and Lean Production(s)
- Flow Production Cells
- Takt Time
- Focused Factories and Demand Flow

Waste Elimination & Efficiency Tools

- 7 Waste Identification (Muda)
- Waste Elimination
- Single Minute Exchange of Die (SMED)
- Mistake Proofing (Poka-Yoke)
- 5S and 6M’s
- Visual Management

Problem-Solving & Root Cause Analysis

- Kaizen
- A3 Thinking
- Ishikawa (Fishbone) Diagrams
- Affinity Diagrams
- The Five “W’s” and One “H” of a Problem Statement

Team-Based Project Planning

- Team Selection
- Project Charter
- Responsibility Assignment Matrix (RAM) and PACI Charts

Process Mapping & Documentation

- Process Mapping
- Process Mapping Exercise

Assessment

- Learning Assessment

Six Sigma Principles and Fundamentals

- History of Six Sigma
- Lean vs. Six Sigma
- DMAIC vs. DMADV
- DMAIC Model

Define Phase

- Project Charters, VOC, CTQ, Y = f(x)
- Pareto Analysis, Kano Model, House of Quality
- Root Cause Analysis: 5 Whys and Affinity Diagrams

Measure Phase

- Data Collection, MSA, Sampling Plans
- Basic Statistics with Minitab
- Control Charts, Capability Indices (Cp/Cpk)

Analyze Phase

- FMEA, Regression, ANOVA, Hypothesis Testing
- Histograms, Box Plots, Scatter Plots with Minitab
- Confirming Root Causes and Identifying Key Inputs

Improve Phase

- Brainstorming and Prioritization Tools
- Design of Experiments (DOE) using Minitab
- Risk Mitigation and Pilot Planning

Control Phase

- Control Plans and Response Strategies
- Process Standardization and Documentation

Certification Exam and Final Project Submission

- Lean Six Sigma Black Belt Certification Exam
- Final Project Submission
- Course Summary

□□ Certification Path

Lean Six Sigma Black Belt (LSSBB)

Exam: LSSBB

Frequently Asked Questions

Q: What delivery options are available for Lean Six Sigma Black Belt (LSSBB) Training?

We offer multiple delivery formats:

- Live Instructor-Led Classroom Online (Virtual/Live Online)
- Traditional Instructor-Led Classroom Training (ILT)
- On-site delivery at your offices anywhere in United Kingdom
- Private dedicated courses customized for your team

Q: What certification does this course prepare me for?

The Lean Six Sigma Black Belt (LSSBB) Training course helps prepare you for the Lean Six Sigma Black Belt (LSSBB) certification path.

Q: Which exam does this course prepare me for?

This course prepares you for the LSSBB official exam. You can take this exam at any exam center across United Kingdom including London, Manchester, Birmingham, Edinburgh, or live online wherever you are located.

Q: Do you provide corporate training for Lean Six Sigma Black Belt (LSSBB) Training?

Yes, we provide corporate training, dedicated training, and closed classes for Lean Six Sigma Black Belt (LSSBB) Training. Training can take place anywhere in United Kingdom including London, Manchester, Birmingham, Edinburgh, or live online allowing teams from across United Kingdom or internationally to attend.

Q: Why choose Nexus Human for Lean Six Sigma Black Belt (LSSBB) Training?

Nexus Human is recognized as one of the leading training providers. Our trainers have won multiple awards including:

- Small Firms Best Trainer Award
- National Training Partner of the Year (Ireland) - Multiple Years
- Global Top 30 Instructor Awards (2012, 2019, 2021)
- Tech Excellence Award Nominations
- Learning Performance Institute (LPI) External Training Provider Sponsor 2024

Q: Are there any discount codes available?

Yes! Use discount code **PENPAL5** when booking your Lean Six Sigma Black Belt (LSSBB) Training training. Please note that only one discount code can be used per booking and cannot be combined with other special offers.

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