

# LEAN SIX SIGMA BLACK BELT CERTIFICATION

As per International Standards



## UNICHROME

# Unichrone Training **Advantages**

- ✓ 5 Day Interactive Instructor –led Online Classroom or Group Training
- ✓ Course study materials designed by subject matter experts
- ✓ Copy of courses content provided
- ✓ Highly qualified, expert & accredited Master Blackbelt trainers with vast experience
- ✓ Get 40 hours contact hours(PDU's) Certificate
- ✓ Interactive session with Case Studies
- ✓ 2 Lean Six Sigma Black Belt practice tests with detailed answers
- ✓ End-to-end support via phone, mail, and chat
- ✓ Exam fees included in the training course



# Importance of Lean Six Sigma Black Belt Certification

- ✓ Lean Six Sigma Black Belt Training provides international standards training and certification that is recognized across all industries. Certified Black Belts are the most sought-after quality management professionals as they play a major role in implementing the Lean Six Sigma methodology in the quality improvement processes of their organization. These professionals are skilled in using Lean tools and have exceptional leadership skills. They guide Green Belts and Yellow Belts in the various Six Sigma projects of the organization.
- ✓ Certified Lean Six Sigma Black Belts are proficient in risk assessment and financial management, they take part in the decision-making process of the organization along with the top management. Along with technical skills accomplished through years of experience working in the quality development process, these professionals have good communication skills and problem-solving abilities. They assign tasks to their team members in the various Six Sigma projects of their organization and oversee the quality improvement processes.

# About Unichrone

✓ We are a professional training institute with an extensive portfolio of professional certification courses. Our training programs are meant for those who want to expand their horizons by acquiring professional certifications across the spectrum. We train small- and medium-sized organizations all around the world, including in USA, Canada, Australia, UK, Ireland and Germany.



Guaranteed Quality



Handpicked Trainers



Global Presence



Online Training Option

**We've trained professionals across global companies**


## ELIGIBILITY CRITERIA



Lean Six Sigma Black Belt Certification Training Course is beneficial for engineers, managers, quality professionals and technical staff with a minimum of 2 years work experience.

To take up the Six Sigma Black Belt Certification Training, professionals should have completed their Six Sigma Green Belt Certification.

## WHO SHOULD ATTEND



Engineers / Professionals / Executives who want to understand Six Sigma as a management tool for process and performance improvement at their workplace Managers, Project Leaders, Senior Engineers, Black Belt Candidates and anyone who desires an understanding of Six Sigma principles and skills.

Also, production managers, front line supervisors, quality professionals, and individuals who are responsible for improving quality and processes at an enterprise or departmental level, including champions and process owners can attend Lean Six Sigma Black Belt Certification Training.

# Lean Six Sigma Black Belt Certification Advantages



CERTIFIES  
YOUR TALENT



HELPS  
BUILDING  
VALUES



GLOBAL  
RECOGNITION



PERFECT  
EXECUTION



BUILDS  
CUSTOMER  
LOYALTY



MORE  
EMPLOYABILITY  
OPTIONS

# Syllabus of Lean Six Sigma Black Belt Certification Training

## Lesson 01 – Overview: Six Sigma and the Organization

1.	Value of Six Sigma Recognize why organizations use Six Sigma, Origin of Six Sigma.
2.	Organizational drivers and metrics Recognize key drivers for business (profit, market share, customer satisfaction, efficiency, product differentiation) and how key metrics and scorecards are developed and impact the entire organization

## Lesson 02– Six Sigma – Define

1.	Process elements
2.	Owners and stakeholders
3.	Identify Customers & Customer Segmentation
4.	Collect & Classify Customer data
5.	Translate Customer requirements
6.	Project Identification & Planning tools
7.	Organizational goals and Six Sigma projects
8.	Project Charter & Project Metrics
9.	Team stages and DMAIC
10.	Six Sigma - team roles and responsibilities

# Syllabus of Lean Six Sigma Black Belt Certification Training

## Lesson 03 – Six Sigma – Measure

1.	Process Mapping
2.	Process inputs and outputs
3.	Probability and statistics
4.	Basic probability concepts
5.	Types of data and measurement scales
6.	Data collection methods
7.	Techniques for assuring data accuracy and integrity
8.	Descriptive statistics
9.	Graphical methods
10.	Probability distributions
11.	Central limit theorem and sampling distribution of the mean
12.	Measurement system analysis

## Lesson 04 – Six Sigma – Analyze

1.	Cause Analysis
2.	Failure Mode and Effects Analysis (FMEA)
3.	Run Charts
4.	Multi-Vari studies
5.	Simple linear correlation and regression

# Syllabus of Lean Six Sigma Black Belt Certification Training

## Lesson 05 – Six Sigma – Improve & Control

1.	Process capability and performance
2.	Process performance vs. specification
3.	Process capability indices
4.	Process performance indices
5.	Short-term vs. long-term capability
6.	Process capability for attributes data
7.	Statistical Process Control (SPC)
8.	Selection and application of Control Charts
9.	Analysis of control charts
10.	Control plans, SOPs, Work Instructions

## Format of Lean Six Sigma Black Belt Certification Exam

Examination Format	
<b>Exam Name</b>	<b>Lean Six Sigma Black Belt Certification Exam</b>
Exam Format	Open Book-Multiple choice and Project Submission
Total Questions & Duration	100 MCQs & 50 marks for Project Submission, 180 minutes for theory and 8 months for project submission
Passing Score	60 % of the total marks in both the parts & need to obtain aggregate 70 % marks of the total marks (i.e. 105 out of 150)
Exam Cost	Included in the training fee

To get you fully prepared with the knowledge and skills for the Lean Six Sigma Black Belt examination, a training session at Unichrome gives immense importance to mock questions at the end of every module and problem-solving exercises within the session. Prepared by Lean Six Sigma Master Black Belt certified faculty, the practice tests are a true simulation of the Lean Six Sigma Black Belt examination

# Contact Us

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