



associated with



The Professional Certificate Program in

# **Certified Lean Six Sigma Master Black Belt (CLSSMBB)**



# About Us

Welcome to (Sense Academy), where innovation meets excellence in the digital realm. We're passionate about IT education. Our platform offers a wide range of courses designed to help you thrive in the tech world. Our team of talented engineers, developers, and experts is dedicated to delivering cutting-edge solutions that drive business growth and transform industries. We pride ourselves on our commitment to innovation, quality, and student satisfaction. With a focus on, creativity, integrity, collaboration, etc. we strive to exceed expectations and set new standards of excellence in everything we do.

At Sense Academy, we're passionate about empowering individuals with the skills and knowledge needed to thrive in the ever-evolving tech landscape. We offer courses that help students build their skills and expertise in IT. As a leading tech academy, we offer a diverse range of courses and programs designed to equip learners with practical skills and expertise across various domains, including programming, data science, cyber security, business, and creative arts. Our team of industry experts and educators is dedicated to providing high-quality education and fostering a supportive learning environment where students can succeed and grow. Whether you're a beginner looking to launch a career in tech or a seasoned professional aiming to advance your skills, Sense Academy has something for everyone.

With a focus on innovation, flexibility, and accessibility, we're committed to helping individuals achieve their goals and unlock their full potential. Join us at Senseacademy and embark on a journey of lifelong learning and discovery in the exciting world of technology.

# Why Choose Us

Discover why our program stands out with exceptional training, expert guidance, and cutting-edge curriculum.

**Trusted by millions** - Join a community of satisfied learners worldwide

**Certificated awarded** - Earn recognized credentials upon successful completion

**24/7 online chat** - Instant support whenever you need it

**Made by professionals** - Expertly designed by industry leaders

**Available offline** - Access content anytime, anywhere without an internet connection.

**600+ hours of classes** - Extensive learning opportunities to master your skills

**Top-quality online education**

**Expert-led online Training**

**Community with 50K+ students.**

# Certified Lean Six Sigma Master Black Belt (CLSSMBB)

## Overview

The Certified Lean Six Sigma Master Black Belt (CLSSMBB) certification is the pinnacle of Lean Six Sigma achievement, designed for professionals who have mastered advanced methodologies and leadership in process improvement. CLSSMBBs are experts in deploying Lean Six Sigma across large organizations, driving strategic initiatives, and achieving substantial business outcomes. They possess advanced skills in statistical analysis, project management, and coaching, enabling them to mentor Black Belts and shape organizational culture towards continuous improvement. CLSSMBBs play a crucial role in transforming businesses by identifying critical improvement opportunities, optimizing processes, and ensuring sustained success through rigorous implementation of Lean Six Sigma principles.

## Course Objectives

- Master advanced Lean Six Sigma methodologies and leadership skills.
- Lead strategic and complex process improvement initiatives.
- Develop expertise in statistical analysis and data-driven decision-making.
- Mentor and coach Lean Six Sigma Black Belts and other leaders.
- Drive significant business transformation and sustainable operational excellence.
- Champion continuous improvement culture and innovation within organizations.



# Why Choose Our Certified Lean Six Sigma Master Black Belt (CLSSMBB)

**Knowledgeable Trainers** - In our academy we provide trainers who are industrial specialists with wide knowledge in CLSSMBB field. They convey actual-creation visions and hands-on information to the classroom, increasing the knowledge ability.

**Real-world knowledge method** - We highlight practical knowledge and incident educations to support learners put in theoretic ideas to actual-creation situations. This method certifies that learners grow practical abilities that are directly related in their parts as leaders.

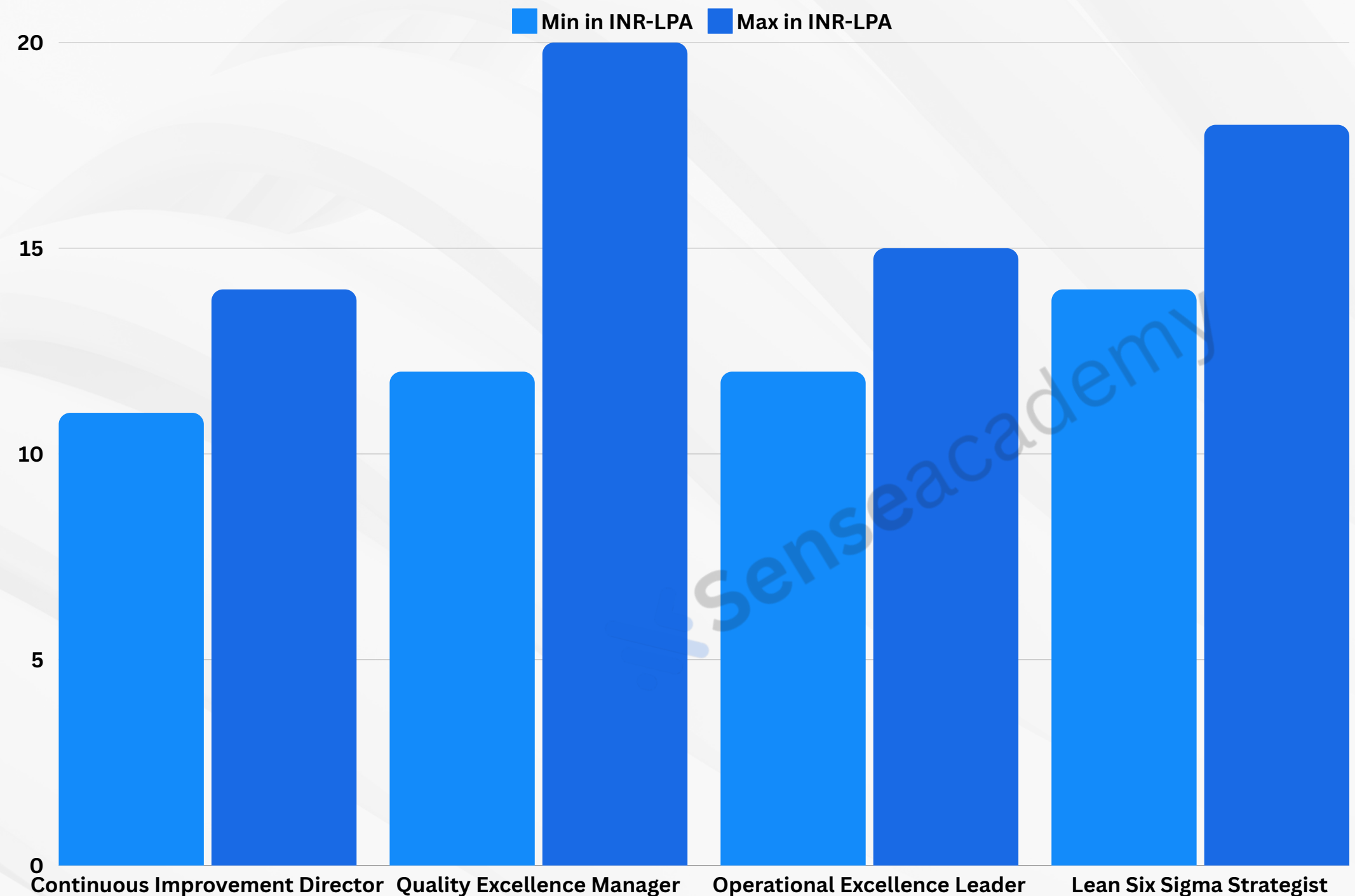
**Flexibility** - In our academy we propose liveness knowledge choices, counting online courses and in- person training sessions, to quarter learner's plans and favorites.

**Interacting Chances** - In our academy our course delivers chances for interacting with other CLSSMBB specialists, counting teachers and parallel learners. Constructing a specialist's interacting can be precious for occupation progression and on-going education.

## Industries Hiring CLSSMBBs

- **Technology:** Software, IT consulting, startups
- **FinTech:** Financial institutions, FinTech startups
- **Healthcare:** Technology companies, research institutions
- **E-commerce:** Online retailers, logistics
- **Telecommunications:** Providers
- **Government:** Agencies
- **Manufacturing:** Production
- **Automotive:** Manufacturing, assembly
- **Energy:** Efficiency, costs
- **Aerospace:** Manufacturing, maintenance
- **Construction:** Project management

## Role-Based Salary Range for CLSSMBBs





# Program Details

## Who should go for this Certified Lean Six Sigma Master Black Belt (CLSSMBB) Course?

01

Senior Executives and Consultants

04

Process Improvement Leader

02

Chief Operating Officers (COOs)

05

Continuous Improvement Managers

03

Quality Managers

06

Operations Directors

# Certified Lean Six Sigma Master Black Belt (CLSSMBB) Course Module

## Module 1 – Organizational Roadblocks and Lean Management

Organizational roadblocks & Resistance Analysis  
Overview of all Continuous Improvement approaches  
Overview of Lean & Six Sigma  
Lean Management explained & Lean Tools explained — 5S, Kaizen, SMED, Heijunka

## Module 2 – Pre-define DMAIC

DMAIC versus DFSS  
Pre-define Pre-requisites and Qualifications  
Project Prioritization Matrix  
Introduction to Enterprise Wide view versus LOB view  
NPV and IRR



### Module 3- Define

Champion's transfer of project  
Team dynamics and facilitation  
Project Charter's role  
SIPOC/COPIS map  
VOC/VOB/VOP  
CTQ, CTC, CTS  
VOC – CTQ Tree & Kano Model  
Quality Function Deployment  
Baseline performance of Y  
Business Metrics for Y  
Rolled Throughput Yield (RTY)  
Statistical Definition of Six Sigma

### Module 4- Measure

Objectives of Measure Phase  
Types of Data and Data Distribution models  
Scales of Data  
Measures of Central Tendency & Dispersion  
Measurement Systems Analysis  
Variables GAGE RR & Attribute RR  
Stability Check & Capability Check  
Variations, Variability and Capability  
Graphical tools to understand Data distribution  
Understanding Weibull  
Correlating Calculations to Business Measures  
Checking Normality of Data

### Module 5 – Analyze

Objectives of Analyze  
Simple Linear Regression  
Multiple Linear Regression

Curvilinear Regression  
Fishbone Diagram  
Pareto Charts

Demarcating Common & Special Causes  
Hypothesis Tests  
Statistical Validation

## Module 6 – Improve

Objectives of Improve  
Cost Benefit Analysis  
Solutions Prioritization Matrix  
Pugh Matrix  
Design of Experiments  
Introduction to DOE  
Basics of DOE  
Replication, Randomization and Blocking  
Main Effects and Interaction effects  
Full factorial experiments  
Fractional factorial experiments  
Screened Designs  
Response Surface Designs  
DOE with Regression  
DOE with example

## Module 7 – Control

Taguchi's Loss Function  
Control Charts & Project Closure  
Measurement System Re-analysis  
Control Plan and Project Storyboard Transfer  
Introduction to Total Productive Maintenance  
Lean Process Improvement  
Understanding Lean  
The Toyota Production System House  
The Five Critical Improvement Concepts  
Understanding Value with the Kano Model  
Types of Waste  
Creating a Lean Enterprise  
The Plan, Do, Study, Act (PDSA) Cycle  
Using the R-DMAIC-S Model  
Lean Thinking Tools & Kaizen Events  
Data Gathering and Mapping



# Skills Covered

Statistical Process Control (SPC) | Design of Experiments (DOE) | Hypothesis Testing | Regression Analysis | ANOVA | Capability Analysis | Control Charts | Lean Six Sigma Tools | Root Cause Analysis | Value Stream Mapping (VSM) | Six Sigma Methodology | Data Analysis Techniques | Project Management | Communication Skills | Leadership



# Join Us

Elevate your Lean Six Sigma journey to the pinnacle of expertise with Senseacademy's comprehensive Certified Lean Six Sigma Master Black Belt Course. Immerse yourself in a meticulously crafted curriculum designed to equip you with the advanced knowledge and practical skills required to lead complex improvement initiatives and drive organizational transformation. Delve into in-depth training and engaging hands-on exercises to master advanced statistical techniques, design of experiments, root cause analysis, and change management strategies. Obtain the prestigious certification that definitively validates your ability to lead and execute high-impact improvement projects. Become a highly sought-after Lean Six Sigma Master Black Belt, capable of driving innovation, optimizing processes, and delivering exceptional results across diverse industries





# Contact Us



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