



associated with



The Professional Certificate Program in

Certified Lean Six Sigma Black Belt (CLSSBB)

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 Black Belt (CLSSBB) Course

Overview

The Certified Lean Six Sigma Black Belt (CLSSBB) certification is designed for professionals who aim to lead complex process improvement projects within organizations using Lean Six Sigma methodologies. This certification equips individuals with advanced skills in statistical analysis, project management, and leadership, essential for driving significant business improvements. CLSSBB holders are adept at identifying opportunities for process optimization, implementing solutions, and mentoring Green Belts and project teams. By achieving CLSSBB certification, professionals demonstrate their ability to deliver substantial financial benefits, enhance operational efficiency, and sustain quality improvements across various sectors.

Course Objectives

- Master advanced Lean Six Sigma principles and methodologies.
- Learn to lead and execute complex process improvement projects.
- Develop proficiency in statistical analysis and data-driven decision-making.
- Gain skills to mentor and coach Green Belts and project teams.
- Drive significant business improvements and cost savings.
- Demonstrate leadership in achieving sustainable operational excellence through Lean Six Sigma initiatives.

Why Choose Our Certified Lean Six Sigma Black Belt (CLSSBB) Course

Knowledgeable Trainers - In our academy we provide trainers who are industrial specialists with wide knowledge in CLSSBB 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.

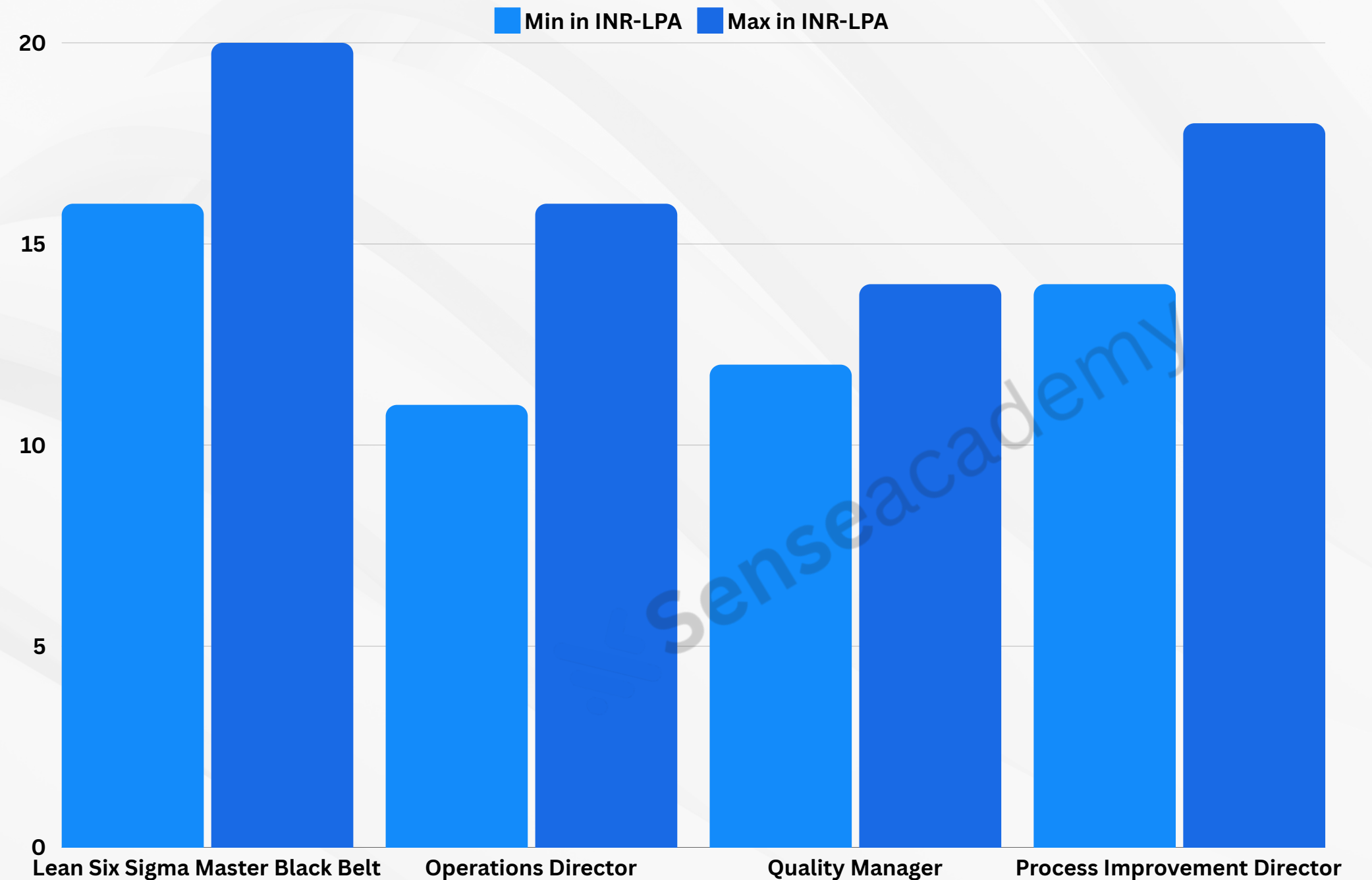
Flexibility - In our academy we propose liveness knowledge choices, counting online courses and in- person training sessions, to quarter learner's plans and favorites.

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

Industries Hiring CLSSBBs

- **Manufacturing:** Automotive, aerospace, electronics, food & beverage, pharmaceutical, equipment manufacturing
- **Healthcare:** Hospitals, health insurance, medical device manufacturers, pharmaceutical
- **Services:** Banking & finance, consulting firms, government agencies, education, non-profit organizations
- **Other:** Telecommunications, transportation & logistics, energy, retail, hospitality, technology

Role-Based Salary Range for CLSSBBs



Program Details

Who should go for this Certified Lean Six Sigma Black Belt (CLSSBB) Course?

01

Senior Project Managers

04

Operations Managers / Supply Chain Managers

02

Quality Assurance Managers

05

Business Analysts

03

Process Improvement Directors

06

Consultants

Certified Lean Six Sigma Black Belt (CLSSBB) 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

Discover a transformative opportunity to revolutionize your career with Senseacademy's comprehensive Certified Lean Six Sigma Black Belt (CLSSBB) course. Delve into an expertly crafted curriculum designed to propel you beyond the fundamentals, equipping you with the advanced knowledge and practical skills essential for excelling in the realm of Lean Six Sigma. Immerse yourself in in-depth training and engaging hands-on exercises to master statistical analysis, process improvement methodologies, problem-solving techniques, and change management strategies. Obtain the prestigious certification that definitively validates your expertise and opens doors to a myriad of exciting opportunities in various industries. Embark on a transformative journey to become a highly sought-after Lean Six Sigma Black Belt who not only drives innovation but also adeptly delivers high-quality products and services with efficiency and effectiveness.



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