



**Grow Exponentially in your Career
Add Value to your Organization**

Be a Lean Six Sigma Certified Professional

Master Black Belt Certification

Trained and Certified by Chools Consulting Services Pvt Ltd



Partner With



OVERVIEW

CUT COSTS NOT CORNERS

Six Sigma is a measure of quality that strives for perfection. A disciplined, data driven approach, it eliminates defects in Any process – from manufacturing to transactional and from Product to service.

Of late, the Six Sigma Belts (certified professionals) have become the popular hire for companies around the world. Black and Master Black Belt training have also become the most popular training options for companies. This new found interest and popularity for six sigma Black & Master Black Belts comes from the cost efficiency of hiring and training them. Companies save a lot of money training their employees to the Black & Master Black Belt status and the benefits are tangible.

The importance of Six Sigma has spiraled in the last two decades and is anticipated to maintain its dominance over all other existing quality improvement techniques because it is flexible and can be altered to suit the requirements of new businesses.

Six Sigma focuses on consistent quality improvements until Business processes are fully optimized. As soon as a certain quality level is achieved, the organization shifts gears and starts concentrating on achieving other level of quality. The whole process continues until all the business processes are fully optimized.

Six Sigma concepts and methodologies highlight the use of statistical tools and techniques for improving quality and reducing defects. The dependence on hard facts and figures automatically ensures that decisions have the desired effect on the quality of goods or services and the efficiency of business processes.

When decisions are based solely on gut feelings and Preconceived notions, the decisions may not have the desired effect, especially if the task is to make adjustments in a complex business process. The inherent ability of Six Sigma to produce the desired results has enhanced its importance in today's business world.

Another reason for the ever-growing popularity and Importance of Six Sigma is that it really helps in handling competition, which has increased considerably in today's business world. Business organizations worldwide have realized that in order to beat the competition, they will have to offer better quality products or services to their customers and that too at competitive rates.

Six Sigma enables business organization to achieve greater customer satisfaction and build customer loyalty Having a loyal group of customers is always important for Any business because it ensures a constant flow of revenues even when is a cyclical downturn in the industry.



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LEAN SIX SIGMA – MASTER BLACK BELT

At Chools Consulting Services, students have an option of undergoing the Black Belt certification before proceeding to the “expert” Master Black Belt certification. The strength of six Sigma lies within training people to fit within this varying levels of expertise so that they can better complete specific tasks as a team. The Six Sigma hierarchy consists of different levels of certification ‘belts’ who are responsible for different roles in a company’s Six Sigma projects. Six Sigma Black Belts and Six Sigma Master Black Belts have the duties of commencing and expanding projects they are working on.

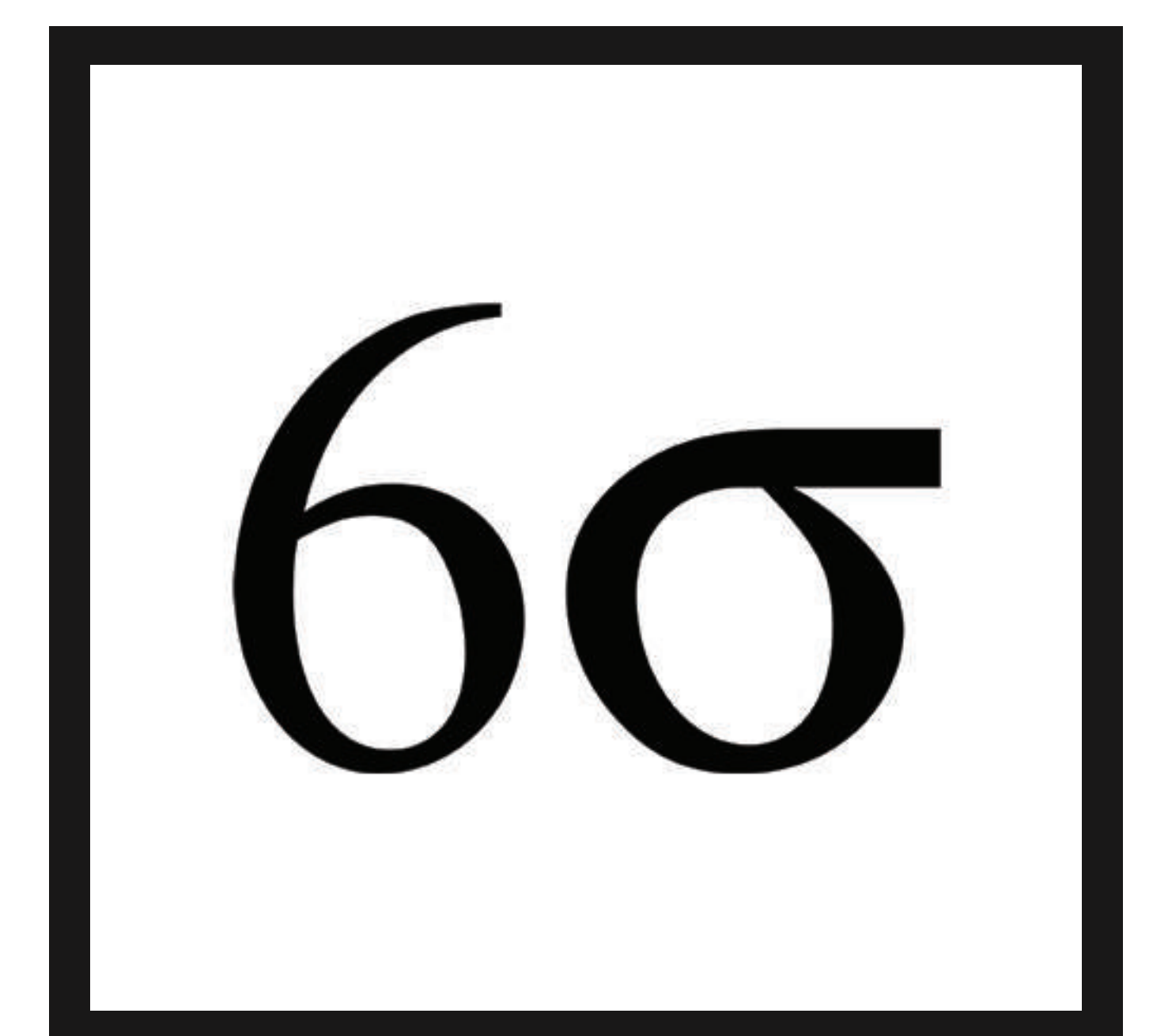
MASTER BLACK BELT

Lean Six Sigma Master Black Belts :

Lean Six Sigma Master Black Belt (MBB) is a systematic study of the capacity to lead the Lean Six Sigma principles to propel the organization to its destination.

Outstanding skills and expertise in service or industrial businesses that aim to be full Lean six sigma subject matter experts that lead productivity and performance excellence strategies across organizations and are looking for a career breakthrough.

Certified candidates will demonstrate their attained skills through deploying DMAIC projects, integrate LSS in teams’ day to day processes to advance performance and give cutting edge value to all data and would earn high recognition in the business market.



LEAN SIX SIGMA BENEFITS

- Universally applicable to all industries and help professionals to eliminate defects within any business process.
- Decision-making in the professional world is accurate when it's based on the Six Sigma process.
- Six Sigma professionals understand the most pressing issues with the organization, how to identify new approaches in troubleshooting and resolving problems, making appropriate decisions on moving forward, and implementing changes within the infrastructure and organization for the best possible results .
- Reduction of unproductive work and leveraging of talent internally to solve problems rather than outsourcing.
- Essential for businesses that need process improvement and change.
- Higher productivity rate and many changes throughout the entire infrastructure of an organization when Six Sigma training is implemented.

CERTIFICATION BENEFITS

▶ COURSE FEATURES

- Attaining CHOODS Group FI professional Certification through achieving 80% in the exam included in the course and completing project in a manufacturing entity.
- Material and Handouts with Soft Copy included.
- Course cost cover training sessions, comprehensive notes set.
- Professionally planned, prepared and presented
- Guidelines and Support material is provided to all participants.
- Certificate of training completion.
- Support from subject matter experts.

▶ LEARNING OUTCOME

- Learn the Advances LSS tools and methods applied during a Master Black Belt Project.
- Hands-on simulations, exercises, and practice workshops of tools and methods used across the DMAIC methodology.
- Advanced use of Minitab statistical software.
- 150 Question closed book exam: MBB Project Charter for certification.
- Training certificate for course completion.
- Master Black Belt Certification for Exam and Project completion.
- Company Customized courses available.
- Recommended coaching by LSSMBB



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MASTER BLACK BELT - OUTLINE

LEAN SIX SIGMA - MASTER BLACK BELT



▶ LEVEL 1

- Six Sigma Introduction
- Six Sigma Project Definitions
- Project Selection Process
- Six Sigma Deployment
- Process Mapping
- Input Prioritization Tools
- Failure Mode Effect Analysis
- Minitab 17 Introduction
- Measurement Systems
- Capability Analysis
- Sample Size Selection
- Statistical Process Control
- Process Control Plan
- Integration of Lean
- Project Plan & Deliverable
- Project Reviews

▶ LEVEL 2

- Week 1 Review in Class Project
- Advanced Graphical Analysis
- Multi-Vari Planning
- Variation Trees and Funneling
- Hypothesis Testing
- Central Limit Theorem
- Statistical Analysis Roadmap
- Test for Mean with t-test
- One Way ANOVA
- Non-manufacturing Applications
- Correlation and Regression
- Multi-Vari Analysis
- Process Control Plan
- Project Plan & Deliverable
- Project Reviews

▶ LEVEL 3

- Week 1 and 2 Review Project
- Multiple Regression
- Advanced Multi-Vari
- Attribute Measurements
- Attribute Measurement Systems
- Sample Size Calculations
- Six Sigma for Service
- Managing Change
- Introduction to DOE
- Full Factorial Experiments
- Full Factorial Simulations
- Fractional Factorials Designs
- DOE Sample Size Selection
- In class DOE Project
- Project Planning & Deliverables
- Project Reviews Measurement

▶ LEVEL 4

- Design of Experiments Review
- Blocking in Experiments
- General Factorial Experiments
- Six Sigma Residual Analysis
- Non-Normal Data – Transformations
- Non-Normal Data in Experiments
- Sequential Experimentation
- Response Optimization Designs
- Multiple Response Optimization
- Transactional Improvements
- Simulations for Improvement
- Applied Experimentation
- Statistical Process Control
- Mistake Proofing
- Control Methods
- Project Closure and Synergy

▶ LEVEL 5 & 6

- Variation
- Non-parametric analysis
- Destructive testing
- Multi-vari experiments
- Practical experimentation
- Handling attribute responses
- Optimization experiments
- Advanced regression methods
- Handling multi-response experiments
- Distributional analysis
- Advanced SPC methods
- Class Project
- Project Reviews
- Final Exam

GET CERTIFIED



**TRAIN @ CHOOOLS AND GAIN ENTRY
INTO AN ELITE CLUB OF
CERTIFIED PROFESSIONALS WORLDWIDE**

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