

Benchmark Six Sigma Master Black Belt Program

The Science and the Art of ...

- Training and Mentoring Belts
- Leading and Guiding Projects
- Planning and Executing Six Sigma Program



**benchmark
six sigma**

WHY CHOOSE BENCHMARK SIX SIGMA?

- Most experienced and respected trainers and consultants
- More than 6500 Belts trained.
- Highest recognition and respect across sectors
- Training and facilitation methodology with Multi-sensory impact
- Unique after training support through very active web based forum and group activities
- Online project completion support and certification at no additional cost
- Trainers have cross-industry implementation and leadership experience.
- Unparalleled Industry networking and recognition.

DEVELOPMENT OF MASTER BLACK BELTS

Six Sigma leadership is central to implementation success. Instead of a half hearted unplanned effort, Six Sigma deployment should be a well thought out strategy. Master Black Belts being teachers, mentors and guides need to know much more than advanced statistical techniques. This program is designed to help Black Belts graduate to a Master Black Belt role.

MASTER BLACK BELT ROLES

- **Trainer** : Master Black Belts teach the entire organization about methodology, approach, and correct usage of techniques.
- **Guide** : Green Belts and Black Belts need guidance in their Six Sigma journey. Senior Management needs inputs on how Six Sigma meets strategic objectives.
- **Project leader** : MBBs need to lead large or complex projects themselves.
- **Deployment Champions** : MBBs help create Six Sigma infrastructure within the company and provide recommendations for curriculum, certification criteria, belts structure, integration of Lean & Six Sigma with each other and with other approaches.

METHODOLOGY

Training methodology includes Lectures, Q/A sessions, Small Group Discussions, Review Sessions, Exercises, Tests, Hands-on practical problems, Case Study, Demonstration, Simulation, Role Playing, Teaching Others, Guided Practice with Feedback, Brainstorming, Problem Solving and Article Discussions.

PRE-REQUISITES

This five-day program is meant only for participants with Black Belt Credentials. Candidates should also be thorough with Lean principles and application practices.

CERTIFICATION REQUIREMENTS

Master Black Belt training certificate shall be awarded on completion of point 1 below while MBB certification can be achieved by candidates who fulfill all of the following criteria.

1. Complete the prescribed curriculum and get 70% or more in examination
2. Complete 2 Black Belt level six sigma projects (or) Mentor 5 Green Belt / Black Belt level Six Sigma projects
3. Conduct at least 80 hrs of Six Sigma training.

Note: To complete the MBB learning, it is recommended that participants attend a structured Lean Management program to be thorough with lean concept and tools.

Benchmark Six Sigma Master Black Belt Elements

1. OVERVIEW

- A. Six Sigma key elements - Six Sigma elements where Black Belts and Green Belts commonly need help.
- B. Theory of Constraints, Business Process Re-engineering
- C. Advanced concepts in Sampling, MSA, Multi-Vari analysis, RTY calculations.

2. LEADERSHIP AND CHANGE

- A. Change Management Essentials
- B. How to manage multiple projects
- C. Creating and managing project dashboards.

3. TEACHING, FACILITATION SKILLS

- A. Key elements in Facilitation
- B. Practice sessions on facilitating discussions

4. ADVANCED DMAIC TOOLS

- A. When to change alpha and beta risk values,
- B. Regressions - Logistic Regression, Multiple Regression—Forward, Backward, Stepwise, Best Subsets, Multi-collinearity, MANOVA
- C. DOE - Response Surface Methodology, Nested Design, Mixed Designs
- D. Dealing with Non Normal Data and transformations - Non Parametric Tests.

- E. Multivariate Analysis - Cluster Analysis and Principal Component Analysis.
- F. Distribution fitting - Various types of distributions and applicability to specific situations.
- G. Control Charts - Special Charts

5. DFSS TOOLS

- A. Taguchi methodology—Static and Dynamic Designs
- B. Quality Function Deployment
- C. TRIZ and innovation techniques
- D. Tolerance analysis, Reliability assessment

6. SIMULATION TECHNIQUES

- A. Selecting the predictors
- B. Finalizing decision variables
- C. Running and analyzing simulations
- D. Optimization techniques

7. ADVANCED LEAN TOPICS

- A. Value Stream Mapping advanced exercise,
- B. Kanban, Set up and Batch Size calculations, Heijunka
- C. Queuing theory
- D. Takt time for multiple products
- E. Integrating Lean with Six Sigma
- F. Integrating Lean Six Sigma with other approaches.

CONTACT US



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