



LEAN SIX SIGMA

MASTER BLACK BELT



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D A T A

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.

Out standing 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 break through.

COURSE CURRICULUM

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 20 Introduction
- Measurement Systems
- Capability Analysis
- Sample Size Selection
- Statistical Process Control
- Process Control Plan
- Integration of Lean
- Project Plan & Deliverable
- Project Reviews



COURSE CURRICULUM

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 Review

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 | Inclass DOE Project
- Project Planning & Deliverables | Project Reviews Measurement

COURSE CURRICULUM

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 Synerg

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
- Distribution analysis
- Advanced SPC methods | Class Project
- Project Reviews | Final Exam



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