

SIX SIGMA MASTER BLACK BELT

CERTIFICATION PROGRAM

Online Training and Certification Program

Jointly Delivered by



Indian Statistical Institute
Pune Unit



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PROGRAM OVERVIEW

Six Sigma Master Black Belt is a program where practicing Six Sigma Black Belts who have completed three Six Sigma projects will be eligible to enroll for this Program.

The Master Black Belt Program will enable a participant to deploy Six Sigma to any organisation as an effective mentor. A Master Black Belt (MBB) will be able to effectively train and coach at all levels including the leadership team, sponsor, champion, Black Belt, Green Belt and Yellow Belt on all the related disciplines including DMAIC, Lean Six Sigma, Design for Six Sigma and Business Analytic using Data Mining. Our MBB would be able to act as a guide to any organisation to enable sustainable, predictable and desirable growth in profits.

WHO CAN ENROLL?

The program is only for those Certified Six Sigma Black Belts who have completed at least three Six Sigma Black Belt level projects.

EXAM AND CERTIFICATION

Six Sigma Master Black Belt Certificate will be issued after successful completion of Content Test and a Test of Presentation Skills with >=80% marks in the test conducted on the last day of the session.

We also issue a Master Black Belt ID card to the MBB once he mentored at least five Six Sigma Black-Belt level projects and completed at least 100 hours of training session within one year from the date of issue of the MBB Certificate.

PROGRAM CURRICULUM

INTRODUCTION

Vision & Mission, HosinKanri, SWOT, Balance Scorecard, Business level dashboard, Annual Business Plan (ABP), Strategic Business Plan (SBP), Multigenerational Process (MGP) and MGAP (Multi generation annual plan), Six Sigma linked to business benefit, Six Sigma Deployment Strategies- Business Process Management Systems, DMAIC, Lean Six Sigma and DFSS Organisation for Six Sigma, Role clarity and certification requirements, Project hopper, Project selection methodologies, Change Acceleration Process

REFRESHING DMAIC

Project Hopper, Project Charter, Voice of Customer, Critical to Quality, Tree Diagram, Pareto, SIPOC Type of Data, Measurement System Analysis – Variable & Attribute, R&R Study, Sampling, Base level Assessment, Normality tests, Capability analysis – Cp, Cpk Pp, Ppk, Defect & defective, DPMO, DPO, DPU, Sigma Level Process Analysis – Basic Flow Chart, Activity & Deployment flow chart, Opportunity Flow Chart. Problem Analysis, Sporadic Problems, Chronic Problems, Unstable Process, Control Charts, Test of Hypothesis, Tabular Analysis, Chi – Square test, Regression Analysis, Process FMEA, Real cause identification TRIZ, Solution Prioritization matrix, Solution Matrix, RICI – Chart, Before After tests, Solution Implementation, Design of Experiments - Taguchi, ANOVA Control Plan, Control Charts for Online Analysis, Mistake Proofing, Kaizen Philosophy, Overall Review, Evaluation Test

LEAN SIX SIGMA

DFSS

Define Phase - Project charter, VSM- CS

Measure Phase

Waste related CTQs, Spaghetti chart, Routing card

Analyse Phase - Seven Point Waste

Improve Phase

VSM-FS, Kaizen- Takt time, Heijunka box, Pull-JIT, 5-S, SMED, ANDON, Poka Yoke, Jidokha, Supermarket, Suggestion system, TPM

Control Phase - Report-out

Define Phase

- Project charter
- MGP-MGAP
- Conjoint analysis
- Contextual enquiry
- ECTQ Dashboard

Measure Phase

- QFD
- Design scorecard

Analyse Phase

- Transfer functions
- Simulation
- DFX
- Axiomatic design
- TRIZ
- Pugh Matrix
- Fault tree analysis
- Reliability analysis
- FMEAs
- Tolerance design

Design Phase

- Design competencies
- Design components- Design configurations
- P-R Map
- Control plans
- Verify Phase**
- ECTQ Dashboard
- Control plans

BUSINESS ANALYTICS USING DATA MINING

Introduction to Business Analytics using Data Mining | Data Preparation | Outlier Analysis | Data Normalisation | Data Dimension Reduction (Principal Factor Analysis & FA) | Data Visualisation | Classification (Logistic regression, Decision tree, CART) | Clustering concept | Affinity analysis (Market basket Analysis concept) | Predictive analytic including Time series forecasting

EXAMINATION

- Theory Session
- Presentation Session

DURATION

Upto 12 Days (Customisable as per requirements)

BATCH SCHEDULE

XXXX XXXXX XXXXXXXXXXXXX

COURSE FEE: INR 60,000 (+GST)

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- Six Sigma Yellow Belt
- Six Sigma Green Belt
- Six Sigma Black Belt
- Master Black Belt
- Lean Six Sigma Supplement Program
- Design for Six Sigma Supplement
- Post Graduate Program in Data Science

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for more details



Vishwakarma Institute of Technology, 666, Upper
Indiranagar, Bibwewadi, Pune, Maharashtra, INDIA - 411 037

For further details, +91- 9823197779
info@eduplusnow.com | www.eduplusnow.com