Lean Six Sigma Master Black Belt (MBB) Training and Certification Program

Through hybrid mode
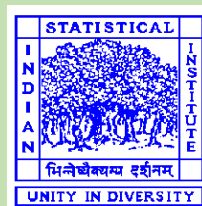
(Batch -16)

During

Phase-I (6 days): May 08-13, 2023 (Online)
Phase-II (6 days): June 05-10, 2023 (Classroom)

Duration: 12 days

Final Examination: June 10, 2023 (Offline)

LAST DATE FOR REGISTRATION: May 02, 2023

Conducted by

SQC & OR Unit, Mumbai
Indian Statistical Institute
Room No. 320, 3rd Floor Old C G O Building,
101 Maharshi Karve Road, Mumbai 400 020.
E-mail: *sqcbombay@gmail.com*
www.isimumbai.co.in
Mobile: 9869242240/ 9969928144

About this Program:

SQC & OR Unit, Indian Statistical Institute, Mumbai, offers this Lean Six Sigma Master Black Belt (MBB) training and certification program through hybrid (online + classroom) mode. The first six-day (phase-1) of training is online sessions, and the last six-day (phase-2) are classroom (offline) type. Participants must come to our office in Mumbai to attend phase-2 of the training. The end-examination is offline and will be held on the last day (**June 10, 2023**). **For registration**, participants may either download or type the nomination form (attached at the end of the brochure) and send it to *sqcbombay@gmail.com* after filling out the form. The **soft copy of the training material** (*in pdf*) and **data set** (for class exercises) will be shared through a virtual drive. We will also send the hard copy of the material through courier.

Requirement of software:

The training sessions will primarily use **Minitab software** and **MS Excel** for data analysis. Participants may purchase the Minitab license or download its one-month **trial version**. The participants who will be using Minitab 30 days trial version are requested to download the software during Phase -I, as the program has been planned to be complete (including the test) within one month.

About the Online session (Phae-1):

The program will use **Microsoft Teams** or **Zoom** as its online platform.

About the classroom (offline) sessions (Phase-2):

The venue of the phase-2 session is as follow:

Conference Room, SQC & OR Unit, Indian Statistical Institute, Mumbai, 3rd floor, Prathista Bhaban, Old CGO Building, 101 M K Road, Mumba-400020

Breakfast and lunch will be served during the offline training sessions. However, participants need to arrange their own accommodations.

Why should I attend this MBB program?

Implementation and sustaining a Six Sigma / Lean culture in an organization's progress-certified MBB plays a critical role. The MBB certification program, offered by SQC & OR Unit, Mumbai, is designed to sharpen the existing Black Belts' technical, coaching, and internal advocacy skills and quality personnel to lead the six sigma effort within their organization.

After attending this training, the participants will

> ➢ Be able to integrate the Six Sigma DMAIC/DFSS approach with the Lean improvement methodology for executing their process improvement projects.
> ➢ Gain an in-depth understanding of familiar and advanced statistical tools and techniques that will guide various Lean six sigma projects.
> ➢ Learn to create a measurement system that pulls for the creation of lean or six sigma projects when it is most beneficial for the organizations.
> ➢ Finally, gain knowledge of guiding various kinds of projects.

Course Contents:

In addition to selected topics of the Six Sigma Black Belt Body of Knowledge, the following subjects will likely be discussed.

- Overview of Six Sigma Methodology and Lean
- Review Strategies for effectively implementing Six Sigma and Lean Six Sigma in an organization
- Understanding of Deployment Strategies – Business Goals/ Dashboards/ Balance Business Score Card or Customer Goals, including linkages with financial goals
- Executive and other roles and responsibilities in LSS implementation
- Six Sigma Project selection-linkage to strategy
- Overview of Lean Six Sigma Project Execution (DMAIC or DFSS/ DMADOV)
- Project Review Guidelines and selection of Belts for the projects
- Voice of Customer, Affinity Diagram & Quality Function Deployment
- Distribution fitting of data, evaluation of Process Stability and Concept of Process Capability and assessment of Sigma level
- Identification of VA and NVA activities in Processes.
- Value Stream Mapping
- Lean tools and integration of Six Sigma and Lean concept, i.e., Lean Six Sigma
- Multiple Regression, Logistic regression and use of the same in cause validation
- Reliability Theory, Design FMEA, Pugh Matrix, Fault Tree Analysis
- Design of Experiments, including RSM
- Taguchi Methods of Parameter and Tolerance Design

- Exploratory Data Analysis
- Multivariate Analysis (cluster analysis, factor analysis, Discriminant Analysis)
- Predicting Modelling using Classification and Regression Tree
- Conjoint Analysis, Simulation
- Queuing theory
- Change Management Process dealing with resistance to change,
- Concept of Poke Yoke, Visual Workplace, 5S & Planning for full-scale implementation.
- Work through at least 3 Six Sigma projects of different applications
- Process of Closing the Project

Eligibility:

Degree holder in any discipline with at least six months of specialized training in quality management sciences from recognized institutions like ISI etc. and /or Certified Black Belts from recognized certification bodies like ASQ, ISI, Motorola University, Rath &Strong etc. Each candidate should have at least two years of experience in conducting/ guiding at least ten improvement projects.

Faculties:

Experienced faculties from Indian Statistical Institute, having in-depth experience in implementing six sigma in various leading manufacturing and service organizations across the globe, will be associated with the training sessions.

Examination/Assignments:

An assignment will be given after the 1st module, i.e., the first six days, and participants must complete it before coming for phase 2.

On the last (12th) day of training, there will be a two-hour offline examination (MCQ + data analysis), and participants should score a **minimum of 70% marks** to pass the examination.

MBB Certification Criteria:

- A qualifying certificate will be issued for securing 70% marks in the examination conducted on the last day of the training and successfully completing the assignment.
- MBB certificate will be issued after successful passing of the test and guiding/ mentoring five projects on improvement & conducting 120 hours of training in related topics or attending three conferences/seminars/workshops on related subjects in the following one year.

Program Schedule:

The entire training program is divided into two phases (Phase -I & Phase - II) as given below:

May 08-13, 2023 (Phase-I)- 6 days
June 05-10,2023 (Phase-II)- 6 days

Examination: June 10, 2023

Everyday class timing (Both online and offline)

09:30 a.m. – 11:00 a.m   Session 1
11:00 a.m. – 11:30 a.m. Tea break
11:30 a.m. - 01:00 p.m. Session 2
01:00 p.m. – 02:00 p.m. Lunch break
02:00 p.m. – 03:30 p.m. session 3
03:30 p.m.– 04:00 p.m. Tea break
04:00 p.m. - 05:30 p.m. Session 4

Course fee:

Rs. 60000 + 18 % Tax as per Govt. Rules. Total fees: **Rs.70800 /-** per participant. Fees to be paid *through online bank transfer only*. The bank details for online payment are:

Bank Name:	STATE BANK OF INDIA
Account Name:	Indian Statistical Institute,
Account Type:	**Current**
Bank Account No:	10996682279
Branch:	MUMBAI MAIN BRANCH
Bank Address:	Mumbai Samachar Marg, Horniman Circle, Fort. Mumbai 400023
IFSC code:	SBIN0000300

Note: Fees Will be refunded if ISI cancels the program only.

Registrations are purely on a '**first come, first served' basis**. Participants must enquire (mobile no. 9869242240 / 9969928144) for the seat availability before making the payments. We will confirm the registration only on receipt of the **filled-in nomination form** (attached) and **course fees**.

LAST DATE FOR REGISTRATION: May 02 2023

Lean Six Sigma Master Black Belt (MBB)Training Program
During May-June 2023 (12 days)

NOMINATION FORM

Name of the Participant (CAPITAL LETTERS):

Communication Address (*Mandatory*):

E-mail (CAPITAL LETTERS):

Mobile (with WhatsApp):

Organization Name (Optional):

Highest academic qualification:

Black Belt certification details (attach scan copy):

Course Fees:

Rs.60000/- per participant +. tax @18% = **Rs. 70800/- (Bank transfer only)**
Bank Details: For Online Payments
Bank Name: STATE BANK OF INDIA
Account Name: Indian Statistical Institute,
Account Type: **Current**
Bank Account No: 10996682279
Branch: MUMBAI MAIN BRANCH
Bank Address: Mumbai Samachar Marg, Horniman Circle, Fort. Mumbai 400023
IFSC code: SBIN0000300

Amount Paid: _____   Date: _____

Bank: _____   Payment Ref. No._____

Name: *Date:*

Please send the filled-in form to sqcbombay@gmail.com