

# LEAN SIX SIGMA MASTER BLACK BELT



## Objectives

During this Lean Six Sigma Master Black Belt (MBB) course, participants will be able to build on their existing knowledge of the Lean Six Sigma Black Belt course.

## Duration

Saturday | 845am – 515pm | 3 months | 72 hours

## Who should attend

Participants should be Lean Six Sigma Black Belts (or its equivalent) with at least 3 years of work experiences. Current MBBs are also eligible.

## Course Fees

Member: \$8,652.42  
Non-Member: \$9,587.64

*All fees stated are inclusive of Registration and Exam. Fee & 9% GST*

## Assessment Method

Minimum 75% of class attendance is required.  
Discussion & Presentation in class.

## Award of Certificate

Certificate of Completion will be awarded to participants who have successfully completed the course

## Certification Criteria

After course completion, requirements for LSSMBB Certification:

- a) At least five years of experience in the role of a CSSBB or CMBB, or Completion of 10 Six Sigma Black Belt projects.
- b) Deliver Lean Six Sigma training across a minimum of five modules.
- c) Mentor 5 BB to Certification.
- d) 1 MBB level project, or significant involvement in managing a Lean Six Sigma initiative in a company (with company top management recommendation letter).



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## Course Contents

### Lean Six Sigma Organizations

- Six Sigma Leadership and Change Management
- Project Management/Coach/Evaluation
- The Role of MBB

### Lean Six Sigma Deployment Plan

- Aligning Six Sigma with Business Excellence Model
- Bringing Lean Six Sigma to Achieve Company Objectives
- Reward and Recognition

### Lean Tools – In-depth Analysis

- Lean Principles
- Definition of Value
- Value Stream Mapping
- Identification of Wastes

### Six Sigma Tools - Advanced Tools / In-depth Analysis

- Measurement System Analysis
  - Cross / Nested / Expanded Gage R&R
  - Gage Linearity / Bias / Stability
- Process Capability for non-normal and attribute data
  - Capability Analysis using Distribution fitting
  - Capability Analysis discrete data (Binomial and Poisson)
- Non-Parametric Statistics
- Multiple Regression
- Advanced Control Chart
  - CUSUM
  - EWMA
  - Pre-Control Chart
  - Control Chart for Short Production Run

### Capstone Project: Students' Research and Presentation

#### Special Note:

Participants need to bring their own laptops for Minitab Software Application training



Please refer to this URL  
<https://www.sqi.org.sg/courses/>  
or QR Code for soft copy and  
updated training schedule

### Membership Application

Register membership online at  
[www.sqi.org.sg/membership-join/](http://www.sqi.org.sg/membership-join/) or  
contact us to get the membership  
application form.

Membership Categories:  
~ Organisation membership  
~ Individual membership

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