

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

Entry Requirement

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.



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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/ or contact us to get the membership application form.

Membership Categories:

- ~ Organisation membership
- ~ Individual membership

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