# **CERTIFIED SIX SIGMA GREEN BELT**



**Objectives** 

By the end of the Certified Six Sigma Green Belt, participants should be able to: Apply the Six Sigma Methodology with main emphasis on Define, Measure, Analyse, Improve and Control (DMAIC) approach.

The DMAIC methodology is universally recognised and it is used when a product or process is already existing and do not meet the desired quality level.

**Duration** 

5 Saturdays | 9am - 6pm | 5 weeks | 42 hours

Who should attend

Engineers and other practitioners/change agents who will be assisting in Six Sigma projects; or individuals interested in progressing to achieving certification for Six Sigma Black Belts.

**Entry Requirement** 

At least a diploma with one year working experience.

**Course Fees** 

Member: S\$1,979.50 Non-Member: S\$2,375.40

Registration Fee of S\$17.12 and Exam & Certification Fees of S\$214 apply

SDF funding & SkillsFuture applicable All fees stated are inclusive of 7% GST

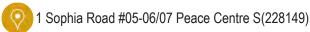
**Assessment Method** 

Written examination - held approximately 4 weeks from end of course









### **Course Contents**

#### Six Sigma Introductions

- What is Team Dynamic?
- Team structure in Six Sigma
- Six Sigma Tools that need teamwork

#### **Define Phase**

- Failure Mode and Effect Analysis
- **Project Charter**
- Pareto, Process Mapping, SIPOC
- Supplementary Tools

#### **Measure Phase**

- Cause and Effect Analysis
- **Basic Statistics**
- **Probability Distributions**
- Central Limit Theorem
- Measurement System Analysis
- Process Capability Analysis

#### **Analyse Phase**

- Hypothesis Testing
- Regression
- **Correlation Analysis**
- **ANOVA**
- Multi-Vari Analysis
- **Contingency Table**

#### **Improve Phase**

- Introduction to Experiment
- Full Factorial Design
- General Factorial Design
- Fractional Factorial Design

#### **Control Phase**

- Statistical Process Control Charts
  - Attribute
  - Variable
- **Process Control Plans**
- Mistake Proofing
- Summary

#### Special Note:

Participants need to bring their own laptops for Minitab Software Demonstration



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 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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