

# 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\$2,642.35  
Non-Member: S\$2,757.24  
*Registration Fee of S\$17.28 and Exam & Certification Fees of S\$216 apply  
SDF funding & SkillsFuture applicable  
All fees stated are inclusive of 8% GST*

## Assessment Method

Written examination - held approximately 4 weeks from end of course



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## 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 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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