

### Six Sigma Green Belt

~ Training for Servicing and Manufacturing Industries ~

## Practical Strategy Brings Personal and Corporate Success





### Six Sigma Institute (SSI)

The Six Sigma Institute (SSI) is a non-profit making professional body. Its primary objective is to accredit Six Sigma professionals with recognized knowledge and skills in this application science. The SSI aims to work closely with professionals, training organizations, universities and other professional bodies in promoting the application of Six Sigma methodologies. Also, the SSI offers other Quality Management related trainings to lift the competitiveness of servicing and manufacturing practitioners.

### Six Sigma Programme

The term Six Sigma comes from a statistical modeling of manufacturing processes and sets defect levels for all processes to below 3.4 defects per million opportunities (DPMO). Introduced by Motorola in 1980s, Six Sigma was widely adopted by top international companies in both manufacturing and service industries (e.g. General Electric, Nokia, Honda, Samsung and LG Electronics). Six Sigma is well-recognized by the world as an effective quality management methodology, aiming at lowering the defects stemmed from manufacturing or servicing processes, improving customer satisfaction and increasing company's revenue.



### Course Overview

Many organisations begin Six Sigma deployments by training capable employees to become **Six Sigma Green Belts**. They involve a larger critical mass of people to achieve breakthrough results from their Six Sigma initiatives. The aim of this course is to share our successful knowledge on how to **apply the Six Sigma tools in achieving breakthrough improvements in customer satisfaction, cost reduction process improvement and cycle time reduction**.

### Who should attend?

- 1. First and second level team leaders and managers.
- 2. Quality and process improvement professionals.
- 3. Those interested in becoming Six Sigma professionals.

### Why should join SSI programme?

**Practical** The programme contains of lectures, workshops and project works. Real study cases will be shared.

**Flexible Schedule** Provide weekday and weekend courses to let students budget their time between work and family life.

Our lecturers have rich related teaching experience, they are Registered Six Sigma Master Black Belt /

Black Belt and experienced in implementing six sigma projects and quality management.

Professional Network SSI students can join our Six Sigma Community which aims to develop a strong social network for Six

Sigma professionals.

Further Study Path Graduates who pass the examination are eligible to apply for SSI Six Sigma Black Belt Programmes.



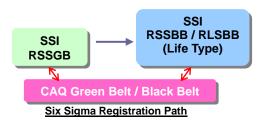
#### Six Sigma Programme Study Path

Recognition

Quality

Certificate holders are eligible to be registered with Six Sigma Institute as a Registered Six Sigma Green Belt and granted with the title of RSSGB.

Green Belt and Black Belt qualifications of SSI have been mutually recognized by China Association for Quality (CAQ). RSSGB who also meets the registration requirements of China Association for Quality (CAQ) for Certified Green Belt, is eligible to apply for such qualification under a mutually recognition scheme of the two organizations.



### Six Sigma Green Belt Course Outline

### DEFINE

- Introduction to SSI's Green Belt Course
- Overview of Six Sigma and Its Recent Development
- Project Identification and Selection
- Project Charter
  - Case Study PDI Ltd
- Define the Process
  - Case Study SIPOC Chart
- Voice of Customer

## MEASURE

### Overview of Measure Phase

- Detail Process Map and Top-Down Chart
  - Case Study Process Map
  - Case Study Top-Down Chart
- In/Output Analysis and C&E Matrix
  - Case Study In-Output Analysis and C&E Matrix
- Measuring and Collecting Data
- Data Sampling Methods
- Measurement System Analysis
- Introduction to SigmaXL
- Basic Statistics
- Baseline Measure
- Baseline Metrics
  - Case Study Discrete Data

## NALYZE

#### Overview of Analyze Phase

- Process Analysis
- Identify Root Cause
- Case Study Graphical Data Analysis
- Testing Relationships
- Regression Analysis
- Chi Square Test
- Confirming Improvement Results

# IMPROVE

- Improve Phase Overview
- Generating Ideas for Solutions
- Piloting
- Cost Benefit Analysis
- Case Study Improve
- Implementing the Solution

- Control Phase Overview
- Process Risk Management FMEA
- Control Plan
- Handoff Plan
- SPC for On-going Control
  - Case Study Attribute Control Charts
- Introduction to TOCLSS
- Why Six Sigma Professionals Have Better Career Opportunities
- Overall Review
- Mock Paper

### Certificate

Certificate of Green Belt in Six Sigma will be awarded to participants who have 70% or above attendance, complete all assignments, submit one individual project, and pass the examination.

**Recommended Course Schedules** (Please visit our website/backward pages for details of other schedules)

\*A Green Belt course could be enrolled with a Black Belt course as a Combined Course and the examination of Green Belt will be exempted.

Course Fee Please contact us about course fee and DISCOUNT details.



The course has been included in the list of reimbursable courses for Continuing Education Fund (CEF) purposes. Please visit the CEF website: https://www.wfsfaa.gov.hk/cef/ or call (852) 3142 2277 for enquiry. [Institution Code: 616 / Course Code: 21C07632-5]

**Enquiry** 

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