

# Lean Six Sigma Green Belt Certification work Shop (Three day Workshop)

## About the Course

Achieving “customers delight through zero-defect”, has been an ever-growing challenge in any industry. Lean Six Sigma practices have proved over years and are now established as extremely powerful (yet user-friendly) tools and techniques to achieve such business excellence.

Huge popularity of Lean Six Sigma practices is due to its following characteristics

- ❖ It is data-driven and measurable (unbiased and undisputed)
- ❖ ROI (return on investment) is easier to assess
- ❖ Quick launching (unlike huge documentation based process framework)
- ❖ Short time line (project based approach)
- ❖ It does not clash with any quality models (like ISO 9001, SEI CMMI®)
- ❖ Application can be anywhere in service, product and process (like functions - engineering, support, HR, product management, marketing – sales, finance – accounts)

This workshop provides an insight into the entire array of Lean Six Sigma practices, which includes:

- ❖ Overview to Lean and Six Sigma
- ❖ Lean Six Sigma – its practical and statistical association
- ❖ Setting up organizational context for practicing Lean Six Sigma
- ❖ Overview to Lean Six Sigma methodologies
- ❖ Developing Lean Six Sigma champions
- ❖ Lean Six Sigma deployment (a project approach)
- ❖ Plenty of hands on information (checklists and application areas)
- ❖ Industrial best practices
- ❖ **Use of MINITAB**
- ❖ **Statistical Process Control (SPC)**

After attending this work shop, the participants can comfortably sit for the Green Belt Certification Exam conducted by QValue and extended benefits are;

- ❖ Collaborating with management to identify areas of practice in an organization
- ❖ Developing the champions for deployment
- ❖ Steering Lean Six Sigma deployment (using project approach) across the organization
- ❖ Finally assessing ROI for such improvement initiatives

### **Workshop format**

With a view to closely synchronise the course-contents with real life scenarios, this faculty-led workshop will encourage active involvement of participants.

For “better understanding” of course-contents and “higher acquaintance” with real life problems, the workshop will have intermediate exercises.

## **Workshop Contents**

The workshop covers the topics as below. There are exercises in between.

### **Introduction to Quality Concept**

### **Basic Industrial Statistics and Problem solving tools**

### **Introduction to Lean Six Sigma**

- Evolution and terminologies
- Impact on business performance
- Statistical computation (\* please refer to note as below)

### **Setting context (for practicing Six Sigma)**

#### **Lean Six Sigma Methodologies**

- Methodologies
  - Practical
  - DMADV (or DFSS)
- Easy to refer Checklists

#### **Organization and Lean Six Sigma Champions**

- Yellow - Green - Black belts and Champions
- Roles and responsibilities

#### **Lean Six Sigma Deployment**

- Project approach
- Road map and deployment
- Project closure (success factor)
- Return on Investment (ROI)
- Automation support

#### **Typical Lean Six Sigma Applications**

- Inventory of application areas in IT and non-IT industries

#### **Best practices on Lean Six Sigma**

- Best practices
  - Lean Six Sigma
  - Others
- Things to avoid
- Sustaining momentum of Lean Six Sigma

## **Practical guidance to MINITAB**

(\*) Note:

The workshop focuses on such “statistical areas” as necessary to understand and practice Six Sigma methodology. The participants do not need to have prior statistical proficiency.

### **❖ Who should attend**

The workshop will be highly beneficial to attendees with some experience in (or association with) project execution. In particular, the following audience would appreciate the workshop –

- ❖ Product group member or Business analysts
- ❖ Developers and other project team members
- ❖ Educational Consultants
- ❖ Team or Module Leaders
- ❖ Project managers
- ❖ Delivery managers
- ❖ Quality or Testing group members
- ❖ Members of customer service and other support service like
  - Network management
  - HR and resource management
  - Training
  - Finance and accounts
  - Sales and marketing
  - Business development

Future Green Belts and Black Belts