



SIX SIGMA BLACK BELT CERTIFICATION

5 Day Workshop

About the Course :

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

Huge popularity of 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 Six Sigma practices, which includes:

- Overview to Six Sigma Green Belt
- Six Sigma – its statistical association
- Setting up organizational context for practicing Advanced Six Sigma Philosophy
- Overview to Six Sigma methodologies (DMAIC and DMADV)
- Developing Six Sigma champions
- Six Sigma deployment (a project approach)
- Plenty of hands on information (checklists and application areas)
- Industrial best practices
- Use of MINITAB in critical areas
- Statistical Process Control (SPC)
- Basics industrial statistics

After attending this work shop, the participants can comfortably sit for the Black 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 Six Sigma deployment (using project approach) across the organization
- Finally assessing ROI for such improvement initiatives



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Workshop Format :

With a view to closely synchronize 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 Six Sigma

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

Setting context (for practicing Six Sigma)

Six Sigma Methodologies

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

Organization and Six Sigma Champions

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

Six Sigma Deployment

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



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- Automation support

Typical Six Sigma Applications

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

Best practices on Six Sigma

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

Practical guidance to MINITAB

(*) Note:

1. The workshop focuses on such “statistical areas” as necessary to understand and practice Six Sigma methodology. The participants need to have prior statistical proficiency
2. The workshop covers most of the topics addressed by ASQ

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 –

- Future Master Black Belts and Six Sigma Champions
- Product group member or Business analysts
- Team or Module Leaders
- Project / Delivery managers
- Support Services (HR, Training, Network, F&A, Business Development)
- Quality or Testing group members
- Members of customer service