

# MST- ISL Certified Six Sigma Green Belt Course (Through Distance Learning)



## MST- ISL CERTIFIED SIX SIGMA GREEN BELT

MST-ISL certified Green Belts learn the six sigma problems solving methodology (DMAIC), and the statistical tools. The focus is to master the application skills rather than learning the theoretical understanding. The program makes extensive use of MS-Excel for data analysis. At the end of the program the MST-ISL certified Green Belts can lead six sigma projects as well as effectively support Black Belts in breakthrough projects. Even though doing real-life project is not a requirement for certification, the Green Belts are encouraged to do projects

## WHAT IS THE BENEFIT OF THIS COURSE

Six Sigma certified people are in high demand in all Industries, specially in BPO, Call Centers, Software, Automotive etc. Your career growth will be faster than your friends without six sigma qualification. Further, Six Sigma qualification also helps individuals in changing the industry – many professional have successfully shifted from Manufacturing to Call Centers, BPO.

## LEARNING METHODOLOGY

The MST-ISL distance learning program is designed to take advantage of the traditional as well as modern concepts. The entire course is divided into five modules. The learning involves following steps:

- Self study (three books and CD-ROM)
- Assignments and Computer Tutorials
- Implementing a real-life project (optional)

## COURSE CONTENT

The MST-ISL Green Belt course is divided into six modules and covers the International Quality Federation (IQF) USA Body of Knowledge (BoK).

### MODULE 1

- Six Sigma Concepts and Philosophy
- Metrics: DPU, DPMO, RTY
- Six Sigma Deployment
- Champion, Black Belt and Green Belts
- Selecting Projects

### MODULE 2

- Define Stage
- Measure Stage
- Basic Statistics: Concept of Variation, Data Types, Normal, Exponential, Binomial, Poisson distributions, Measures of central tendency – Mean, Median, Mode, Measures of dispersion – Range, Standard deviation, Variance, Central Limit Theorem
- Visualization Techniques: Process Mapping, Quality Function Deployment (QFD)
- Measurement System Analysis: Types of error in Measurement System, R&R for Variable measurement, R&R for Visual Inspection
- Web based support (e-mentoring/e-Facilitator)

### MODULE 3

- Analysis Stage
- Data Analysis: common and special causes of variation, Control charts, Xbar and Range Chart, Individual and Moving Range Chart, Histogram, pchart, c-chart, Pareto analysis
- Cause and Effect diagram, Pre-control charts and Paired comparison
- Design of Experiments (DoE): Multi-Vari chart, Fractional Factorial designs, Full Factorial designs.

### MODULE 4

- Improve Stage
- Process Capability: Cp, Cpk, Pp, Ppk
- Advanced Statistics: Sampling distribution, Estimation, Hypothesis Testing, ANOVA, Correlation and Regression

### MODULE 5

- Control Stage
- FMEA
- Team Work

### MODULE 6 (IQF BOK – Basic Topics)

- Distributions
- Statistical Inference and ANOVA
- Measurement Assurance
- SPC

- Process Capability
- One-Way ANOVA

## WHO CAN DO THIS COURSE

MST-ISL Certified Six Sigma Green Belt course is designed to suit different industry needs Manufacturing, BPO, Call Centers, Services, Software etc. Further, this course is NOT only for people working in Quality Departments. This course is useful for people working in all functions – HR, Operations, Finance, Logistics, etc. The course material consists of three books, and a CD containing Excel templates, assignments, IQF exam software, Instructions

## E-FACILITATOR™

- Facilitation is most important part of student learning process. In this student will implement a six sigma project, with active guidance from Black Belts and Master Black Belts.
- The E-FACILITATOR™ is an innovative tool to help six sigma learners in implementing the six sigma DMAIC projects. With special templates(Microsoft Excel) implementing your project is very simple.
- Another interesting feature of E-FACILITATOR™ is that experienced Black Belts and Master Black Belts will review your work at every stage and give feedback. You can interact with BB/MBB through this tool.
- Further, the entire project files and your interaction is stored on the ISL website. If you permit (during the project registration) the same is shared with other students

## E-QUIZ™

The E-QUIZ™ is an interesting tool to help you in testing your knowledge. You can test your knowledge each Module wise or the entire course. You can also check your preparedness to IQF and ASQ USA exams. The Module wise, topic wise details evaluation report is generated instantly. The questions are generated randomly and for each wrong answer, right answers along with comments are also displayed instantly.

## E-MENTORING™

Mentoring is a very critical aspect of development of Green Belts. Experienced Black Belts and Master Black Belts will provide answers to the queries of Green Belts. E-Mentoring™ Green Belts gets the advantage of learning from not one but several, highly experienced mentors simultaneously during the training duration and take advantage of the e-mentoring™. The projects should be an on-going activity. Further, Green Belt training is a stepping-stone for the more challenging role of Black Belts. Those who want to make six sigma as their career are advised to go for Black Belt program after a gap of six months.

## FAQ

*I am NOT from six sigma Company, how can I do projects?*

MST-ISL is not looking for any certificate from your company. The Mentors will be interested in checking your skills in applying six sigma methodology and tools and give you feedback. This is part of the learning process.

*I am not good at Statistics, is it difficult?*

You need not have any background of statistics. In six sigma the focus is on application of statistics and NOT theory. Applications skills are sharpened through implementation. Skilled Green Belts can bring significant bottom-line results to the company and also grow professionally faster.

Green Belts can make significant improvements in any functional areas by combining their functional experience and six sigma skills. Thus Green Belts will grow in their functional areas.

## REGISTRATION

- Register online any day at [www.mstclientnet.com](http://www.mstclientnet.com) and send Fee: Php.17,500.00 (+12% EVAT) Cash or Check Deposit (in favor of MST Consulting & Training Services)
- The course material is sent within 2 weeks.

## About MST- ISL

- MST is in partnership with ISL - Institute of Sigma Learning Pvt. Ltd. in 2007 to promote six sigma courses in the Philippines.
- First in Philippines and India to start Six Sigma Distance Learning course.
- First to publish Six Sigma books in India. First book in 2002 and two books in 2005
- First to develop on-line support system called e-Mentoring and e-Facilitator.
- First to launch International Quality Federation (IQF) USA Six Sigma Certification in India and Philippines.
- Conducted Six Sigma programs in Germany, Dubai, Indonesia, Malaysia, Sri Lanka.
- Rich consulting experience in BPO/Call Center, Insurance, Services, Manufacturing, Automotive, Electronics.

## MST Consulting & Training Services

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