

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



MST-ISL CERTIFIED SIX SIGMA BLACK BELT

Black Belts are at the core of the Six Sigma implementation. 'Black Belt' is an individual who has developed a synergistic proficiency between his or her technical discipline and the Six Sigma strategies, methodology and tools. Black Belts skills are not only required people working in Quality department; they improve the productivity of people in all other functional departments. ISL has taken the initiative and designed an innovative black belt distance learning course to accelerate the learning process and brought here in the Philippines in partnership with MST. The salient features of the Black Belt distance learning course:

- Fully covers the internationally recognized Body of Knowledge (BoK) developed by the following third party certification agencies:
 - American Society of Quality (ASQ) USA.
 - International Quality Federation (IQF) USA
- Focuses on Statistical Skills as well as Soft Skills.
- Specially designed course material, for ease of learning.
- Multimedia CBT with audio lectures for accelerated learning.
- Experienced professionals answer queries through web-based e-Mentoring.
- Web-based assignments with e-Quiz and e-Case Study.
- Web-based project guidance using e-Facilitation.
- Free Ms-Excel based template (covers all advanced statistical tools available in MINITAB)
- Flexible – start the course any time and complete in 3 – 12 months time.
- Take the IQF computerized exam any day any place and get instant results.
- International certification from IQF with out additional cost.

Six Sigma certified people are in high demand in all Industries, especially 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.

BENEFITS OF BLACK BELT CERTIFICATION

We are in knowledge era, and six sigma qualification is unique when compared to the normal university based qualification. Six Sigma Certification is based on both knowledge and skills and gives confidence in your capabilities. The major benefits of six sigma Black Belt certification:

- Able to get better jobs and higher salaries.
- Six Sigma skills are generic and thus helps switch industry.
- Faster return on investment, when compared MBA and other qualifications.

LEARNING METHODOLOGY

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

- Self study (books and Multimedia CBT)
- Web-based assignments and case studies for skill development.
- Web-based e-mentoring support for clarification of queries.
- Implementing a real-life project with the active guidance of experts.
- Take the IQF Six Sigma Black Belt exam.

The course material consists of books, and a CBT containing audio lectures, Ms-excel templates, assignments, case studies, IQF exam software, Instructions.



INSTITUTE OF SIGMA LEARNING

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COURSE CONTENT

The MST-ISL Black Belt course is divided into thirteen modules and covers the Body of Knowledge (BoK) of Six Sigma Certifications offered by American Society of Quality (ASQ) and International Quality Federation (IQF):

Module 1 (Fundamentals)

Six Sigma Concepts and Philosophy, Metrics – DPU, DPMO, RTY, Six Sigma Deployment, Champion, Black Belt & Green Belt, Selecting Projects.

Module 2 (Define and Measure)

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.

Module 3 (Analyze)

Analysis Stage, Data Analysis: common and special causes of variation, Control Charts, XBar and Range Chart, Individual and Moving Range chart, Histogram, p-chart, c-chart, pareto analysis.

Module 4 (Improve)

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

Module 5 (Control)

Control Stage, FMEA, Team Work

Module 6 (Six Sigma Leadership)

Enterprise view, DMAIC Plus model, Balanced Scorecard, Benchmarking, Risk analysis, SWOT Analysis, Scenario Planning, Project Management, Knowledge Management, Management and Planning Tools, Quality Guru's – Deming, Juran, etc.

Module 7 (Advanced Data Analysis)

Probability concepts, Central Limit Theorem, Graphical Methods, Advanced Distributions, Non-Normal Data transformations, Goodness of tests, Contingency table, Non parametric tests, Rational Subgrouping, Advanced SPC – Short runs, CUSUM, EWMA charts.

Module 8 (Optimization and Robust Design)

Two factorial Design's, Fractional factorial Designs, Main effects and Interactions, DOE Service Application, Taguchi Methods, S/N Ratios, Response surface mapping, Planning and organizing experiments, One Factor experiments, EVOP

Module 9 (Design for Six Sigma)

DMADV, Voice of customer, QFD, Design for Manufacturability, System and Design FMEA's, TRIZ, Axiomatic design, Business Process Management.

Module 10 (Lean Enterprise)

Lean Enterprise, 3M, Seven types of Wastes, Heijunka, Takt time, Value stream mapping, 5S, TPM, TOC, Lean Thinking, Continuous flow manufacturing, Non value added activities, Cycle Time reduction, Lean tools: Kanban, SMED, Visual Factory etc.

Module 11 (Change Management)

Managing cultural Change, Team Stages and selection of members, MBTI and Team Roles, Facilitation Process and tools, Coaching and Mentoring, Team Dynamics and performance

Module 12 (IQF BOK-Basic Topics)

Distributions, Statistical Inference & ANOVA, Measurement Assurance, SPC, Process Capability, One-Way ANOVA

Module 13, (IQF BOK Advanced Topics)

Advanced Distributions, Advanced Statistical Inference & ANOVA, Advance Measurement Assurance, Regression, Multi-Factor ANOVA, Project Value, Project Management.

WHO CAN DO THIS COURSE

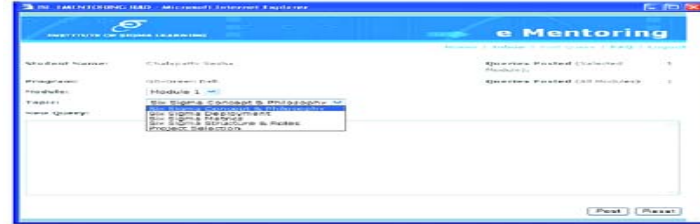
This training and certification is designed for Manufacturing, Services, and Software, BPO and call centers. This course is NOT only for people working in Quality Departments. This course is useful for people working in all functions – HR, Operations, Finance, Logistics, etc. IQF Six Sigma Certified Green Belt can enroll in our Black Belt Upgrade Online certification course.

REGISTRATION

• Registration can be done any day at www.mstclientnet.com and pay Php 40,000.00 (+12% EVAT) through cash, check, credit card or bank transfer. The course material is sent within two working weeks.

E-LEARNING

Mentoring is a very critical aspect of development of Black Belts. Experienced Black Belts and Master Black Belts will provide answers to the queries of Black Belts. With this Black Belt gets the advantage of learning from not one but several, highly experienced mentors simultaneously.



E-FACILITATOR

The e-Facilitator is an innovative tool to help you in implementing the six sigma DMAIC project. Experienced Black Belts and Master Black Belts will review your project at every stage and give guidance. You can interact with BB/MBB through this tool.



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.



FAQ

Who gives the Black Belt Certificate?

MST-ISL Six Sigma Black Belts are prepared for International Quality Federation (IQF), USA certification. IQF Black Belts are required to complete two projects and pass the IQF exam to qualify for the award of IQF Certificate.

How do these certificates recognized?

Currently there are two third party agencies from USA, who are offering the Six Sigma Black Belt certification, namely, American Society for Quality (ASQ) and International Quality Federation (IQF). They conduct exam and certify the qualified.

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

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.

ABOUT MST

Management Systems & Technology (MST) in partnership with Institute of Sigma Learning Pvt. Ltd. (ISL) teamed up together with a vision of providing these courses at a reasonable cost. ISL has the experience of training more than 300 Black Belts in India and abroad. MST-ISL is representing International Quality Federation (IQF), USA and authorized to issue certificates in India and Philippines. ISL is first to publish books on six sigma and also first to launch distance learning courses in six sigma. ISL is continually developing Microsoft Excel based templates to help the Black Belts and Green Belts in the data analysis with out the need to use expensive statistical software's, such as MINITAB, SPSS etc. Further, ISL is first to introduce innovative web-based tools for accelerating self learning. Web-based tools are e-Mentoring, e-Quiz, e-Case Study and e-Facilitator.