



SINGAPORE
QUALITY
INSTITUTE

Singapore Quality Institute International



Lean Six Sigma Green Belt (LSSGB)

5 Days a Week Classes (On Campus)

5 Weeks, 2 Days a Week Classes (Online)

International Certification from SQII Singapore



*Quality Managers, Engineers and
Process Improvement Professionals
of diverse Corporate & Government
Sectors specially valuable for Army,
Navy and Air Force QA Directorates.*



Leading the Modern
Quality Movement in Pakistan

**SINGAPORE
QUALITY
INSTITUTE**

Singapore Quality Institute International



Lean Six Sigma Green Belt

Introduction

The Lean Six Sigma methodology is a systematic application that is focused on achieving significant financial results and increasing customer satisfaction through data based/ quantitative problem solving tools. When properly deployed on carefully selected business projects, this methodology can lead to significant reduction and elimination of defects, process, process waste and out of control processes which translates into dramatic business gains. This Lean Six Sigma Green Belt training teaches and prepares individuals to implement the principles, practices, and techniques of Six Sigma in a support capacity on a Black Belt project team. LSSGB are involved in Process Improvement Projects. They collect and analyze data, develop process maps, carry-out statistical analysis and design of experiments to solve chronic and deep rooted quality and efficiency related issues.

What is Six Sigma Green Belt?

Six Sigma Green belt is a middle level six sigma program. It aims to provide medium level capabilities to run six sigma projects in the companies. Six Sigma Green Belts are the professionals from Quality and Process Improvement departments who work under the guidance of Six Sigma Black Belt in various problem solving and quality improvement activities in the six sigma program being run in organizations. A company which embarks on six sigma strategy needs a number of green belts, who form part of six sigma project teams. These teams work on business and quality improvement projects in their respective organizations. This course is conducted by PIQC in collaboration with Singapore Quality Institute International Singapore (SQII).

Who is Six Sigma Green Belt?

Six Sigma Green Belts serve Process Improvement Projects. They collect and analyze data, develop process maps, assigned the tasks of certain level of statistical analysis and developmental designs for a particular project. Six Sigma Green Belts can also be assigned specific improvement projects to be conducted as their own-projects that would not require statistical rigor demonstrated by Six Sigma Black Belts.

Six Sigma Green Belt Real Life Projects

This is one of the most practical courses in Quality and includes a number of Quality tools and approaches. The course is specially designed to provide practical exposure to participants with practical projects and hands on experiences on advanced statistical software packages so that they are useful in their companies from practical point of views and can help building the companies to the world-class level.

Learning Outcome

Upon successful completion of this course, participants will be able to:

- Learn and apply the fundamentals of Lean Six Sigma strategies and tools
- Learn how to identify and manage Lean Six Sigma projects relevant to organizational growth.
- Apply Lean Six Sigma program in their organizations.



Singapore Quality Institute International



Lean Six Sigma Green Belt

Course Contents

LEAN SIX SIGMA GREEN BELT

- Introduction to Quality Management
- Six Sigma Theory & Practices
- Basic Concepts of Lean

Define Phase:

- Project Selection & Prioritization
- SIPOC
- Project Charter & Metrics
- Process Mapping
- Calculating Process Performance Metrics
- Six Sigma Team Dynamics & Management

Measure Phase:

- Collecting & Summarizing Data
- Graphical Methods & Pivot Analysis
- Descriptive Statistics & Process Characteristics
- Process Capability & Performance

Analyze Phase:

- Hypothesis Testing
- Cause & Effects
- Analysis Methods & Parametric Testing
- Root Cause Analysis
- Correlation & Regression
- Piloting and Implementation
- Analysis of Variance (ANOVA)

Improve Phase:

- Basic Design of Experiments (DOE)
- DoE Principles
- DoE Exercises
- Mistake Proofing & House Keeping Practices

Control Phase:

- Basics of Statistical Process Control (SPC)
- Maintaining the Controls
- Variable Control Chart
- Attribute Control Chart
- Control Plans
- Sustainable Improvements

Lean Management:

- Cycle Time Reduction
- 5S & Kaizen
- 7 Waste Elimination
- Kanban, Just-in-Time (JIT)
- Takt time, Line Balancing
- Value Stream Analysis (VSA)

Six Sigma: Body of Knowledge and Topics

The body of knowledge of this course is compatible to the one defined by the American Society of Quality – ASQ®. The instructors and the teaching methodology are also ensured to the highest level. The following is the guidelines of the topics to be covered in the course.

Valuable for

Quality Managers, Engineers and Process Improvement Professionals of diverse Corporate & Government Sectors specially valuable for Army, Navy and Air Force QA Directorates.

Course Instructors

Internationally qualified and experienced Six Sigma Green Belts. All the course instructors are approved tutors by Singapore Quality Institute and they have worked in number of Six Sigma projects in the companies.



Leading the Modern
Quality Movement in Pakistan

PIQC - Center for Excellence

Leading Institute in Pakistan providing academic programs, professional diplomas & certifications, short courses and corporate development in Quality Control (QC), Quality Assurance (QA) and Total Quality Management (TQM), Human Resource Management (HRM) and Health, Safety and Environment (HSE). Celebrating the 30th year of its establishment, PIQC vision is to see Pakistan a hallmark of Quality in the national and global environments. With its leadership and team of specialists, it has provided academic education and professional courses to more than 45,000 students and professionals. It is the pioneer and most authentic source for running International Six Sigma and Lean Manufacturing programs, including Six Sigma Yellow Belt, Six Sigma Green Belt and Six Sigma Black Belt in Pakistan.

PIQC has professional collaborations and linkages with various local and foreign organizations including Hamdard University, Superior University, NED University of Engineering and Technology, IQCS Certification, Singapore Quality Institute International (SQII), American Society for Quality (ASQ), and Quality and Productivity Society of Pakistan (QPSP)

Degree Programs	Professional Diploma	International Certifications	Corporate Courses	International Conventions
Masters & MPhil in: Quality Management Human Resource Management Industrial Management EHS Management	PIQC Diplomas/ Certifications in Quality Management Project Management Health Care Quality Management HSE Management HR Management Supply Chain Management Labor Laws and IR Management	Internationally Recognized Certifications IRCA (UK) Accredited Certified ISO 9000 Lead Auditor Certified Six Sigma Green Belt & Black Belt	Nation-wise seminars & workshops on Total Quality Management, Six Sigma, ISO 9000 Quality Assurance in Manufacturing, Services, Education, Banks and Healthcare, Total Productive Maintenance	PIQC has organized 13 International Conventions on Quality Improvement and 5 National Conferences on Quality Education in Pakistan since 1991

PIQC INSTITUTE OF QUALITY

Head Office

Training Department
½ km Defence Road, Off 10 km Raiwind Road,
Lahore, Pakistan
Tel: 0092 42 35323600-6,
Fax: 0092 42 35324169
Cell # 0334-7472722
Email: training@piqc.edu.pk,

Karachi Office:

C-35, Block-10-A, Gulshan-e-Iqbal,
Karachi - Pakistan
Tel: +92-21-34177278-79
Cell #0333-2163620; 0315-0027826
E-mail: ikram@piqc.edu.pk
piqc@cyber.net.pk

Web: www.piqc.edu.pk