



leanapplied
Streamlining the Way of Business



ASQ LEAN SIX SIGMA **GREEN BELT** PROGRAM

Get Ready to Unlock the Power of Lean and Six Sigma

Learn how to integrate Lean and Six Sigma to turn your organization into a process improvement powerhouse. You'll increase your ability to effectively identify, frame, and solve problems to continuously improve quality, cost, and delivery/time in ASQ Lean Six Sigma Program.

Learn more and register for upcoming courses at:

www.leanapplied.com



ASQ®

The Global Voice of Quality™



leanapplied

Streamlining the Way of Business



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Course Overview

A 10-days program spread over two weeks. The class follows a 3-days Define & Measure Phase, 3-days Analyze Phase, 2-days Improve Phase and 2-days Control Phase training days for two months. As part time ambassador (typically ranges from 20% to 50% of the current workload), they also lead project teams in their specific functional field, support Black Belt functions, and act as cultural change agents within the organization. Green Belt is focused on "closing the value gaps" that exist within their business and operations area. In addition to that Green Belts act as project supporters, high impact Lean and Six Sigma project. Green Belts are accountable for the root cause identification, variation reduction, waste elimination of defect drivers.

Who Should Attend

This program will benefit a wide array of professionals in both manufacturing and transactional areas who interested in learning how to effectively combine Lean and Six Sigma tools and techniques and apply them in the DMAIC problem-solving approach.

Program Requisites

A basic understanding of statistical analysis methods is recommended including:

- Minitab Statistical Software (provided)
- Basic Statistics Knowledge.
- Each participant will have a project during prior to the session

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What People are Saying About Lean Applied Lean Six Sigma?

“ The consultant has demonstrated the expertise and professionalism to coach and inspire the the team. ”

*Ilpo Saarisi, President
PT SKF Indonesia*

“ We have reduced 33.16% cost per transaction and improvement in productivity compared to previous fiscal year. ”

*Dr. Yusof Omar
Maybank Banking Berhad*

“ The accumulated cost saving as at December 2009 achieved by Black Belts trained and coached by Lean Applied is RM 150 Million (USD 45.3 Million) since we deployed Six Sigma. ”

Petronas Penapisan Melaka

“ The knowledge and expertise that we obtained from Lean Applied is very apparent. We thank him to excellence contribution to our success ”

*CT Boo
SKF Bearing Industries Malaysia*

Program Objectives

Increase your capability to effectively identify, frame, and solve problems for the continuous improvement of quality, cost, and delivery/time. At the completion of the course, you will be able to:

- Understand the power of the DMAIC problem solving process.
- Quantitatively assess the current state of a process.
- Map a process using SIPOC, Process Mapping, and Value Stream Mapping.
- Apply basic graphical tools to identify mean and/or variation concerns.
- Identify and eliminate non-value added waste in business processes.
- Apply quick improvement tools including Standardized Work, Visual Management, and Mistake Proofing.
- Use advanced statistical tools and techniques to make decisions, minimize errors and optimize processes
- Apply Cause-Effect Diagrams and FMEA to identify and resolve process failure modes.
- Install methods of control to sustain process improvement activities.
- Manage a Process Improvement Projects
- Preparation for ASQ Certified Six Sigma Green Belt (ASQ CSSGB) Examination



Program Components

Define

- Lean Six Sigma Overview
- Quality Function Deployment
- Theory of Constraints
- Lean Concept & Tools
- Design for Six Sigma in Organization
- DFMEA and PFMEA
- Value Analysis
- Process Management for Projects
 - Process Elements
 - Owner and Stakeholders
 - Identify Customers
 - Collect Customer Data
 - Analyze Customer Data
 - Translate Customer Requirements - CT Tree
- Project Management Basics
 - Project Charter & Problem Statement
 - Project Scope
 - Project Metrics
 - Project Planning Tools
 - Project Documentation
 - Risk Analysis
 - Project Closure
- Management & Planning Tools
 - Affinity Diagrams
 - Interrelationship Digraphs
 - Tree Diagrams
 - Prioritization Matrices
 - Matrix Diagrams
 - Process Decision Program Charts (PDPC)
 - Activity Network Diagrams
- Business Results for Project
 - Process Performance
 - Failure Mode Effect Analysis
- Team Dynamics and Performance
 - Team Stages and Dynamics
 - Six Sigma team Roles & Responsibility
 - Team Tools
 - Communication

Measure

- Process analysis and documentation
 - Process modelling
- Probability and statistics
 - Drawing valid statistical conclusions
 - Central Limit Theorem
 - Sampling Distribution of Mean
 - Basic probability concepts

- Collecting and summarizing data
 - Types of Data and Measurement Scales
 - Data Collection Methods
 - Techniques for Assuring Data Accuracy and Integrity
 - Descriptive Statistics
 - Graphical Methods
 - Probability Distributions
 - Measurement System Analysis
 - Process Capability and Performance
- Process capability studies
 - Process performance vs. Specification
 - Process Capability Indices
 - Process Performance Indices
 - Short-term vs. Long-term capability
 - Process Capability for Attributes Data

Analyze

- Exploratory Data Analysis
 - Multi-vari studies
 - Simple linear correlation and regression
- Hypothesis Testing
 - Basics
 - Tests for means, variances, and proportions
 - Paired-comparison tests
 - Single-factor analysis of variance (ANOVA)
- Chi Square

Improve & Control

- Design of experiments (DOE)
 - Basic terms
 - Main effects
- Statistical process control (SPC)
 - Objectives and benefits
 - Rational subgrouping
 - Selection and application of control charts
 - Analysis of control charts
- Implement and validate solutions
- Control plan
 - Control Charts Revisited
 - Process Control Plan
 - Visual Control
 - 5S Approach
 - Total Productive Maintenance (TPM)
 - Best Practices and Lessons Learned
 - Standardized Works

Program Details

Certificate

Certificate of Completion requires successful completion of in-class exercises along with 100% attendance of 10 days program and pass the Green Belt examination.



How to Register

Visit our Lean Six Sigma Professional Certification Program web page at www.leanapplied.com/html/training.php or send an e-mail to sales@leanapplied.com or call **1 300 88 6 SIGMA (74462)**



Degree of Success

Whatever your professional dreams, you'll be a step ahead with ASQ programs offered through Lean Applied. These programs are immediately useful and relevant to the industry.

Visit our website at www.leanapplied.com to learn more.

Customized Programs

Our and industry experts are available to collaborate with you by tailoring programs to meet your specific organizational needs and presenting them at a location of your choice.

For more information, contact us at **1 300 88 6 SIGMA (74462)** or sales@leanapplied.com

About Us

Lean Applied was founded in 2005, as a consultation and coaching firm. Our goals are to provide organizations with processes and methods blueprint to help internalize organization's DNA with innovation and continuous improvement culture. Millions of hard and soft savings were achieved by clients in improved processes and had indefinitely expanded their bottom line as a direct result. Our reputation in this region is established by our core business belief which is; above all, moral values has to be the crux in all our work delivered.



As the sole representative service providers from ASQ in Malaysia and Indonesia, we are happy to say that our clients have benefited wholly by realistic solutions provided by us and these strengths combined with innovative systems continuously brings them great success.

Our experience combines international MNC knowledge and local understanding of business ideas thus over riding difficulties and hurdles most International companies face in this region. Lean Applied is viewed as a Business Savior of this region, proven time and again when we are chosen to spearhead transformation initiatives after previous attempts by organization fails to sustain initial momentum.




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