



leanapplied
Streamlining the Way of Business



ASQ LEAN SIX SIGMA BLACK 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



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Course Overview

A 20-day program spread over four months. The class is held once every week per month for four months. By learning to define critical to quality satisfaction characteristics (CTS), participants will be able to focus on "closing the value gaps" that exist within the business, operations and process levels of an organization. This in turn will create the source of financial gains as well as creating value for both the company and its customers. Black belts are at the core of every Lean and Six Sigma implementation, considered as the Improvement Specialist, Change Agent and primarily as project leaders. As project leaders, Black Belts are accountable for the root cause identification, variation reduction, and elimination of defects.

Who Should Attend

This program will benefit a wide array of professionals (Team Leader) 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

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.
- Align internal measurements to critical customer requirements
- 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
- The communication skills to interact with all levels within the organization
- Install methods of control to sustain process improvement activities.
- Lead Process Improvement Projects within organization
- Preparation for ASQ Certified Six Sigma Black Belt (ASQ CSSBB) Examination



Program Components

Define

- Enterprise-wide Deployment
 - Enterprise-wide view
 - Leadership
- Organizational Process Management and Measures
- Team Dynamic and Performance
- Voice of Customer
- Project Management Basics
- Management & Planning Tools
- Business Results for Project

Measure

- Process characteristics
 - Input and output variables
 - Process flow metrics
 - Process analysis tools
- Data collection
 - Types of data
 - Measurement scales
 - Sampling methods
 - Collecting data
- Measurement systems
 - Measurement methods
 - Measurement systems analysis
 - Measurement systems in the enterprise
 - Metrology
- Basic statistics
 - Basic terms
 - Central limit theorem
 - Descriptive statistics
 - Graphical methods
 - Valid statistical conclusions
- Probability
 - Basic concepts
 - Commonly used distributions
 - Other distributions
- Process capability
 - Process capability indices
 - Process performance indices
 - Short-term and long-term capability
 - Process capability for non-normal data
 - Process capability for attributes data
 - Process capability studies

Analyze

- Conceptual Analysis Methods
 - Gap analysis
 - Root cause analysis
 - Waste analysis
 - Foundation for Analysis
- Measuring & Modeling Relationships Between Variables
 - Correlation coefficient
 - Regression
 - Attributes data analysis
- Hypothesis Testing
 - Terminology
 - Statistical vs. practical significance
 - Power and Sample size
 - Point and interval estimates
 - Tests for means, variances, and proportions
 - Analysis of variance (ANOVA)
 - Goodness-of-fit (chi square) tests
 - Contingency tables
 - Nonparametric tests
 - Hypothesis Tests for Discrete Data
- Failure Mode and Effects Analysis (FMEA)

Improve & Control

- Design of Experiments (DOE)
- Waste Elimination
- Cycle-Time Reduction
- Kaizen and Kaizen Blitz
- Theory of Constraints (TOC)
- Lean Brainstorming Techniques
- Statistical Process Control (SPC)
- Total Productive Maintenance (TPM)
- Visual Factory
- 5S & Visual Control Approach
- Maintain Controls
- Sustain Improvements

Design for Six Sigma

- Common DFSS methodologies
 - DMADV
 - DMADOV
- Design for X (DFX)
- Robust design and process
- Special design tools

Program Details

Certificate

ASQ Certificate of Training Completion requires successful completion of in-class exercises along with 100% attendance of 20 days program.

How to Register

Visit to download the registration form at www.leanapplied.com or send an e-mail to sales@leanapplied.com or call **+603 5634 7090** or **1 300 88 66 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 industry practice.

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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