



leanapplied
Streamlining the Way of Business



LEAN SIX SIGMA BLACK BELT BRIDGE 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

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 Six Sigma implementation, considered as the Improvement Specialist, Change Agent and primarily as project leaders. The training strategy follows the **Learn-Plan-Execute-Review** cycle. This training program is designed to provide participants with the knowledge, techniques, and tools necessary to successfully fulfill the Black Belt role.

Who Should Attend

Green Belt who want to upgrade their Lean Six Sigma skill to Black Belt.

Program Requisites

Attended the Lean Six Sigma Green Belt training including understanding of statistical analysis methods is 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:

- Work high-level projects and lead teams through the DMAIC process
- Align internal measurements to critical customer requirements
- Apply the proven tools and techniques of Six Sigma to eliminate non-value added process steps, reduce variations and defect drivers
- 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
- 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

Introduction

- Intro to Breach BB Program
- Lean Six Sigma Overview

Define

- Review of Lean Six Sigma Define Phase
- Identifying Classic Forms of Waste.
- Process Maps
- Introduction to Minitab
- Probability and Basic Statistics
- Rolled Throughput Yield

Measure

- Review Measure GB syllabus
- Value Stream mapping
- Quick Wins
- Advance MSA Variable
- MSA Attribute - Kappa Analysis
- Probability Concept
- Basic Statistics
- Non-Normal Process Capability Analysis
- Graphical Analysis

Analyze

- Lean Analysis Tools
- Central Limit Theorem
- Confidence Intervals
- Paired t Test

- Hypothesis of Proportion
- Hypothesis Testing Chi-Square
- Analysis of Variance
- Power and Sample Size
- Multiple Regression
- Non-parametric Test

Improve

- Future State Maps
- Brainstorm Innovative Ideas
- Introduction to DOE
- General Full Factorial Experiments
- Fractional Factorial Experiments
- Center Points in Two Level Designs
- Blocking
- Response Surface Designs
- Analyzing Standard Deviation as a Response to a DoE
- Piloting and Implementation

Control

- Design for Six Sigma
- SPC Attribute
- Acceptance Sampling
- Standard Work
- Statistical Tolerancing
- Total Productive Maintenance
- Control Plan & Managing Change

Program Details

Certificate

Certificate of Completion requires successful completion of in-class exercises along with 100% attendance of 10 days program.

American Society for Quality (ASQ) Certified Six Sigma Black Belt Requirements :

- 3 years working experience with completion at least **ONE** Six Sigma project and submit a project affidavit.

OR

- Less than 3 years working experience with completion at least **TWO** Six Sigma project and submit a project affidavit.

Duration

10 Training Days

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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