

Lean Six Sigma BLACK BELT Accelerated Public / Individual Training Program



In - House / Group Training Available (Upon Request)

INTRODUCTION

- ◆ The Black Belt Accelerated Course is designed to improve process performance, deliver medium to high impact projects and achieve significant cost savings.
- ◆ Six Sigma Black Belt Accelerated is designed so that people acquire the special skills and knowledge required before leading or taking part in any continuous improvement project.
- ◆ Black Belt Accelerated will effectively use the Six Sigma tools in their organization, with customers and suppliers for achieving business improvement results.
- ◆ Black Belt Accelerated will gain through understanding of all aspects of the DMAIC model in accordance with Six Sigma principles.
- ◆ Black Belt Accelerated will gain knowledge of Lean enterprise concepts and will be able to identify non-value-added elements and activities.

Duration = 8 Days

COURSE CONTENT / CURRICULUM

SESSION 1: DEFINE & MEASURE PHASE / 3 Days

- ◆ Introduction & Overview of Six Sigma
- ◆ Cost of Poor Quality (COPQ)
- ◆ Drill Down Tree & Pareto Chart
- ◆ Project Charter Development
- ◆ Teams & Stakeholder Analysis
- ◆ Voice of Customers (VOC) & Kano Model
- ◆ SIPOC & Basic Process Mapping
- ◆ Quality Functional Deployment (QFD)
- ◆ Financial Analysis and Cost Savings
- ◆ Root Cause Analysis (RCA) Tools
- ◆ Cause & Effect Matrix
- ◆ Operational Definition
- ◆ Data Collection Plan
- ◆ Basic Statistics and Sampling Techniques
- ◆ Measurement System Analysis (MSA)
- ◆ Capability Analysis and Sigma Value
- ◆ Graphical & Value Analysis
- ◆ Detailed Process Mapping
- ◆ Fishbone Diagram
- ◆ Failure Modes and Effects Analysis (FMEA)

SESSION 2: ANALYZE PHASE / 2 Days

- ◆ Hypothesis Testing
- ◆ Advanced Statistical Root Cause Analysis tools :
 - Type 1 & Type 2 error, Degree of Freedom, Power and Sample Size, 1 Sample t-Test, 2 Sample t-Test , One way ANOVA, Test of Equal Variance (TOEV), 1 Proportion Test, 2 Proportion Test, Chi-Square Test, Non-Parametrics Analysis and Two Way ANOVA
- ◆ Advanced Graphical Analysis
 - Sigma Value / Z-Bench
 - Graphical Tools for Statistics
 - Pareto Charts
 - Box Plots

- Scatter Plots
- Matrix Plots
- Histograms
- Time Series Plots
- ◆ Regression Analysis
- ◆ Value Stream Mapping (VSM)
- ◆ Summarising Potential Factors and Potential Solutions
 - Correlation Analysis
 - Multiple Regression
 - Simple Linear Regression
 - Best Subset Regression

SESSION 3: IMPROVE & CONTROL PHASE / 3 Days

- ◆ Generating Improvement Ideas
- ◆ Design of Experiment (DOE)
- ◆ Evaluating & Selecting Best Solutions
- ◆ Solution & Training Implementation Plan
- ◆ Develop & Execute Pilot Plan
- ◆ Lean Enterprise
- ◆ Cost & Benefit Analysis (ROI)
- ◆ Process Control Plan
- ◆ Standard Operating Procedures (SOP)
- ◆ Statistical Process Control (SPC)
- ◆ Best Practice and Replication Opportunities
- ◆ Process Ownership and Dashboards

METHODOLOGY

- ◆ Simulation
- ◆ Activities
- ◆ Own Software
- ◆ Own Books
- ◆ Q & A
- ◆ Group Discussions
- ◆ Case Study
- ◆ Talk over Tea
- ◆ Networking



SIX SIGMA - CORE TRAINING:

- Champions Level Training
- Yellow Belt Level Training
- Green Belt Level Training
- Black Belt Level Training
- Management Awareness Level Training
- Lean Six Sigma Black Belt Step-up Training

SIX SIGMA - SPECIAL COURSES:

- Statistical Analysis Tools in Six Sigma (SATSS)
 - Supplier Development Programme (SDP)
- Operational Cost Reduction Programme (OCRP)
- Project Management with Six Sigma (PMSS)
 - Introduction to Statistics
 - Basic Statistics
 - Statistical Quality Analysis (SQA)
 - Factorial Designs
 - Design of Experiments (DOE)
- Process Excellence Quality Training (PEQT)

SIX SIGMA - CONSULTANCY SERVICES:

- Project Identification Sessions
- Project Selection Sessions
- Project Coaching Sessions
- Project Tollgate Sessions

QUALITY MANAGEMENT:

- Lean Enterprise Training Programme
- Value Stream Mapping (VSM Current & Future State)
 - 7 QC Tools & QCC / QIT
- Root Cause Analysis Programme (RCA)
 - Lean Operations Management
- Total Productive Maintenance (TPM)
- Quick Changeover / SMED & Poka-Yoke
 - 5S and 8 Wastes in Kaizen
 - Problem Solving Tools
- Toyota Production System (TPS)
 - Cellular Manufacturing
- Overall Equipment Effectiveness (OEE)
 - Statistical Process Control (SPC)
- Failure Mode and Effects Analysis (FMEA)
 - Measurement Systems Analysis (MSA)
 - Total Quality Management (TQM)
- Effective Purchasing, Inventory & Store Management
 - Quality Function Deployment (QFD)
 - Lean Innovation Workshop
- Lean Transformation Programme (LTP)

[We Provide In - House / Group Training In Malaysia](#)

[List of Companies That Joins Our Training Programs](#)

Production, Manufacturing, Industries, Management, Sales & Marketing, Human Resource, Hotels, Construction, Motor Vehicle Manufacturer, Banks, Chemical, Department Stores, Electronic Company, Energy, Media, Oil & Gas, Retail, Refinery, Steel, Telecommunications, Food & Beverage, Factory & Engineering

[Click Here To Learn & Know More About Lean Six Sigma](#)

[List of Six Sigma Training Programs](#)

[Stage 1](#)

The Yellow Belt Participants will have in depth knowledge of Lean Six Sigma and the five phases applied in practical terms

[Stage 2](#)

The Green Belt Course is designed to improve process performance, deliver medium to high impact projects and achieve significant cost savings

[Stage 3](#)

The Black Belt Accelerated will gain knowledge of Lean Enterprise concepts and will be able to identify non-value added elements and activities

100% HRDF Claimable Training

Training Inquiries:
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