

CERTIFICATION COURSE

LEAN SIX SIGMA Green Belt

Duration = 6 Days



International LEAN SIX SIGMA **Green Belt** Training in Thailand
Joint Training International Certification brought by Industry Expert within
Australia, Malaysia & Singapore.



INTRODUCTION

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

Six Sigma **Green Belt** is designed so that people acquire the special skills and knowledge required before leading or taking part in any continuous improvement project.

Green Belts will effectively use the Six Sigma tools in their organization, with customers and suppliers for achieving business improvement results.

Green Belts will gain thorough understanding of all aspects of the DMAIC model in accordance with Six Sigma principles.

Green Belts will gain knowledge of Lean enterprise concepts and will be able to identify non-value-added elements and activities.



DESIGNED
FOR

- Process Engineer
- Production / Manufacturing Engineer
- Maintenance Engineer
- Quality Engineer
- Improvement Engineer
- Supervisor
- Superintendent
- Executive
- Professional wanted to become a specialist
- Professional keen to improve skill
- Professional keen to upgrade Career Growth



SESSION 1: (2 Days) DEFINE & MEASURE PHASE

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

SESSION 3: (2 Days) IMPROVE & CONTROL PHASE

- Generating Improvement Ideas
- Evaluating & Selecting Best Solutions
- Solution & Training Implementation Plan
- Develop & Execute Pilot Plan
- Lean Concepts and Error Proofing/ Kaizen
- 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

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

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SESSION 2: (2 Days) ANALYZE PHASE

- **Hypothesis Testing**
 - Type 1 & Type 2 Error
 - Degree of Freedom
 - Power and Sample Size
 - 1 Sample t-test
 - 2 sample t-test
 - Paired t-test
 - One way ANOVA
 - General Linear Model (GLM)
 - 1 Proportion test
 - 2 Proportion test
 - Test of Equal Variance (TOEV) tables
- **Statistical Root Cause Analysis**
- **Regression Analysis**
 - Correlation Analysis
 - Simple Linear Regression
 - Multiple Regression
 - Best Subset Regression
- **Advance Graphical Analysis**
 - Sigma Value / Z-Bench
 - Graphical Tools for Statistics
 - Pareto Chart
 - Run Chart
 - Dot Plots
 - Scatter Plots
 - Matrix Plots
 - Histograms
 - Time Series Plots
- **Value Stream Mapping**
- **Summarizing Potential Factors and Potential Solutions**



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TRAINER & SENIOR CONSULTANT

HARBANS SINGH

Mr. Harbans Singh, is a graduate of University of East London and holds a Bachelors Degree (Hons) in Information Technology majoring in Software Engineering. He is certified as a Six Sigma Black Belt trained by Juran Institute (USA & Korea) under the supervision of Samsung Electronics Asia Pacific.

Mr. Harbans has gained over 12 years of working experience both in manufacturing and service industries.

Mr. Harbans major achievements would include the development of Six Sigma Green Belts and Six Sigma Black Belts within Samsung Electronics Asia Pacific Region. Furthermore Harbans mentored Six Sigma Yellow Belt, Green Belt and Black Belt projects that contributed to total cost savings about USD\$ 15 million during the past 6 years. Harbans also has an extensive experience in developing and conducting Six Sigma Champions Training, Black Belt, Green Belt and Yellow Belt training programs for Private Companies, major Government Linked Companies (GLCs) in Malaysia and many other Government Agencies.



TRAINER & CONSULTANT

ARSHAD ISMAIL

Mr. Arshad Ismail, is a graduate of Universiti Sains Malaysia (USM), Penang Malaysia and holds a Bachelors Degree in Operations Management, majoring in Operations and Re-Engineering. He is certified as Lean Six Sigma Black Belt by IASSC under the supervision of expert from LSS Academy. Mr.Arshad has gained over 15 years of Industrial experience in Manufacturing sectors and Shared Service. Mr.Arshad has clocked working with Electrical&Electronic, Petrochemical, Pharmaceutical and Industrial sector of Manufacturing.

Mr Arshad has extensive experience in performing statistical analysis by using Tableau, Minitab, Python and R Programming. Mr.Arshad has delivered various Quality Improvement and Cost Effective Projects across industries by using LEAN Methodologies and LEAN Six Sigma as methodologies.

Mr.Arshad major achievements would include development of LEAN BUSINESS SYSTEM (L.B.S) for major Petrochemical Plant base in United Kingdom. With L.B.S Mr.Arshad integrating LEAN Six Sigma as part of organization culture. Furthermore, Mr.Arshad mentored Six Sigma Yellow Belt and Six Sigma Green Belt projects that contribute to total cost effectiveness about USD 9million.