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## Comprehensive – Lean Six Sigma Green Belt Classroom Training + Certification (5 Days)

**Price: \$2,600 + GST (Includes Examination & Completion Certification)**

### Objectives

- The Green Belt Course is designed to improve process performance, deliver medium to high impact projects and achieve significant cost savings.
- Lean Six Sigma Green Belt is designed to acquire the special skills and knowledge required before leading or taking part in any continuous improvement project.
- Green Belts will effectively use the Lean Six Sigma tools throughout their organization, 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 & activities.

### Departments

Business Process Improvement, Change Management, Continuous Improvement, Project Management, Industrial Engineering, Production Management, Quality Management, Logistics, Contract Department, Innovation Department, Commercial Department, Business Development, Strategic Planning, Human Resource, Finance & Others.

### Who Should Attend

Chief Executive Officers, Managing Directors, Executive Officers, General Managers, Managers, Executives, Engineers and Continuous Improvement Specialists & Others.

## Course Content

### Session 1: Define & Measure Phase (2 Days)

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

### Session 2: Analyze Phase (1 Day)

- Graphical & Value Analysis
- Hypothesis Testing
- Advanced Graphical Analysis
  - Sigma Value / Z-Bench, Graphical Tools for Statistics, Pareto Charts, Run Charts, Dot Plots, Scatter Plots, Matrix Plots, Histograms, Time Series Plots
- Regression Analysis
  - Correlation Analysis, Multiple Regression, Simple Linear Regression, Best Subset Regression
- Hypothesis Testing- P-Value & Statistical sample tests (overview)
  - Type 1 & Type 2 Error, T-tests: 1 Sample & 2 Sample Tests incl. ANOVA, TOEV & Proportion Tests
- Value Stream Mapping (VSM)- Current State
- Summarizing Potential Factors & Potential Solutions



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## Course Content (Cont.)

### Session 3: Improve & Control Phase (2 Days)

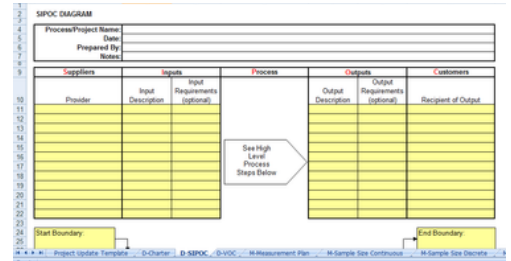
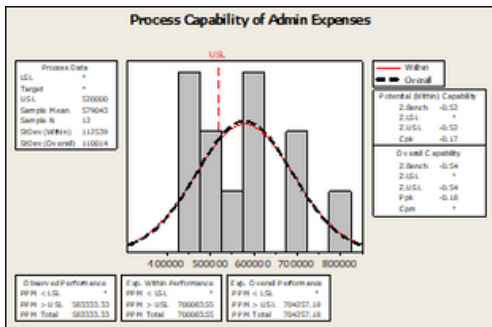
- Generating Improvement Ideas
- Evaluating & Selecting Best Solutions
- Solution & Training Implementation Plan
- Develop & Execute Pilot Plan
- Lean Concepts & Error Proofing / Kaizen
- Cost & Benefit Analysis (ROI)
- Process Control Plan
- Standard Operating Procedures (SOP)
- Statistical Process Control (SPC)
- Best Practice and Replication Opportunities
- Process Ownership and Dashboards

### Minitab & Project Templates during Green Belt Lean Six Sigma Training

Where applicable, during the training course, our consultants will provide the participants with training on how to analyse Quality data using the Minitab software which is widely used by Lean Six Sigma practitioners.

Example of Minitab Software:

Our consultants will also provide the candidates with useful excel quality templates & tools



**Examination & Certification**: We will administer an examination for the participants upon completion of their training. The examination consists of the following (on last day of training):

### LSS Green Belt Level (Internal Exam & Certification)

- Exam Type: Multiple Choice Questions  
 No. of Questions: 35 Questions  
 Examination: Open Book Examination  
 Passing Rate: 70% and above  
 Duration of Exam: 1 Hour  
 Location of Exam: At training location  
 Cost: Inclusive of training

**For further enquiries:**

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