



Internationally Accredited by:



Lean Six Sigma Black Belt Step Up Accelerated Instructor-Led Training (3 Days)

This course is for those who have completed Green Belt Certification and wish to upgrade to Black Belt

Price (including internal exam + certification) :

Online Instructor-Led : \$1,500 + GST

Classroom Based : \$1,800 + GST

Introduction

- The Black Belt Step Up Accelerated Course is designed to improve process performance, deliver medium to high impact projects and achieve significant cost savings.
- The Certified Lean Six Sigma Black Belt is a professional who can explain Lean Six Sigma philosophies and principles, including supporting systems & tools.

Objectives

- To demonstrate team leadership, understand team dynamics and assign team member roles and responsibilities.
- To gain thorough understanding of all aspects of the DMAIC model in accordance with Six Sigma principles.
- To gain knowledge of Lean enterprise concepts and be able to identify non-value-added elements and activities.

Course Content

Define & Measure Phase [Day 1]

- Quality Function Deployment
- MGPP – Multi Generation Project Plan
- Advanced VSM
- Measurement Systems Analysis (MSA)
- LSS Define & Measure Phase Deliverable / Project Example



Analyze Phase [Day 2]

- 3x5 Why Analysis
- Bubble Plots
- Process Capability – Cp, Cpk, Pp, Ppk
- Attribute Process Capability – DPU
- Normality Test
- Test of Equal Variance (TOEV)
- Normal Data Analysis
 - 1 Sample T-Test
 - 2 Sample T-Test
 - ANOVA Test
- Non-Parametric Analysis
 - 1 Sample Wilcoxon
 - Mann-Whitney Test
 - Kruskal-Wallis Test
- Proportion Tests
 - 1 Proportion Test
 - 2 Proportion Test
 - Chi-square Test
- LSS Analyse Phase Deliverable / Project Example

Improve & Control Phase [Day 3]

- Advanced Lean Enterprise & Solutions
- Digital Solutions – IOT / IR4.0
- DOE – Optional
- Advanced Control Charts
 - XBar-S Chart
 - P Chart
 - Np Chart
 - C Chart
 - U Chart
 - EWMA / CUSUM Chart
 - LSS Improve & Control Phase Deliverable / Project Example





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Who Should Attend :

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

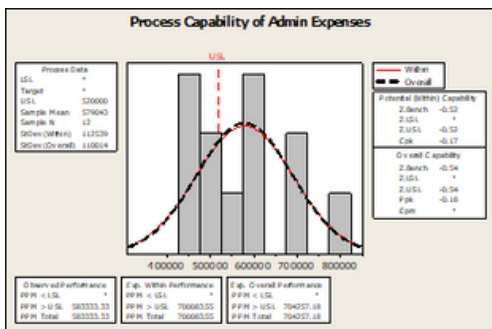
Departments

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 and Others.

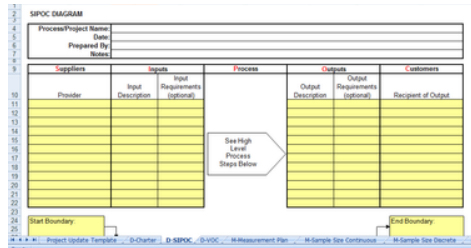
Minitab During Black Belt Lean Six Sigma Training

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 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 Black Belt Level (Internal Exam & Certification)

- Exam Type: Multiple Choice Questions
- No. of Questions: 50 Questions
- Examination: Open Book Examination
- Passing Rate: 70% and above
- Duration of Exam: 2 Hours
- Location of Exam: Online/At training location
- Cost: Inclusive of training

For further enquiries:

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