

Certified Lean Six Sigma Black Belt (119 hrs)

(This programme is conducted in partnership with SQ Centre)

This programme imparts a thorough in-depth knowledge & understanding of all aspects of Lean and Six Sigma. Certified LSS Black Belts have the ability to lead LSS projects and also provide expert guidance to other staff members in their LSS project work. By integrating elements of Lean and Six Sigma organisations can successfully realise the full potential of both strategies. LSS enhances team problem solving with the use of statistical tools. It is a customer focussed, data driven approach to optimise products, processes and services. LSS is a proven pathway for enterprise-wide productivity improvement.

KEY BENEFITS

- Learn the Lean Six Sigma (LSS) methodology, tools and techniques.
- Learn to apply LSS for continuous improvement work and solve real life problems.
- Acquire the knowledge and skills to implement LSS projects
- Ability to lead project teams to achieve breakthrough results.
- Be recognised as a LSS professional and expert coach to guide other staff members.
- Learn to do statistical data analysis using Minitab software.

COURSE CONTENT

Week 1 – Define, Measure

- LSS overview and DMAIC roadmap
- LSS measurements
- Project selection and chartering
- Process mapping
- Basic tools/basic statistics
- Process behaviour charts
- Capability studies and baseline

Week 2 – Analyze, Improve, Control

- Failure mode and effects analysis
- Multi-vari studies
- Measurement System Analysis (MSA) for continuous variables
- Attribute agreement analysis
- Correlation and regression
- Design of Experiment (DOE)
- Control plan

Week 3 – Lean Thinking

- Lean principles and tools
- Value stream mapping
- Capacity planning
- Production planning
- Queuing theory
- Reducing 7 wastes through 5S

Week 4 – Change Management and Advanced Topics

- Leading change and effective team building
- Hypothesis testing
- Analysis of Variance (ANOVA)
- Advanced DOE
- Response Surface Methodology (RSM)

Week 5 – Design for Six Sigma and Advanced Topics

- Advanced process behaviour charts
- Non-normal capability analysis
- Non-parametric testing
- Evolutionary Operations (EVOP)
- Design for Six Sigma (DFSS)

LEARNING METHODOLOGY

Various interactive activities, group discussions, class exercise and real life case studies are used to enable participants to learn the concepts, tools and techniques. Laptops provided in classroom for every participant to learn Minitab software and do statistical analysis.

Participants are strongly encouraged to work closely with our in-house consultants (LSS experts) for guidance on their project work.

WHO SHOULD ATTEND

Managers, engineers, technical staff, process owners, quality professionals, preferably diploma holders and above with minimum two years of work experience.

CERTIFICATION (OPTIONAL)

Certification Criteria:

- Participants are required to attend the full 5 weeks LSS Black Belt training course and also pass the theory exam conducted by Service Quality Centre.
- Complete a minimum of two LSS Black Belt projects (one as project Lead).
- The project must meet the certification criteria determined by our in-house LSS Consultant/Certification Panel.

COURSE DETAILS

Full-Time Training –

2016 Training Schedule	
Jul	Sep
Wk 1 – 25 to 27 July	Wk 1 – 5 to 7 Sep
Wk 2 – 22 to 24 Aug	Wk 2 – 3 to 5 Oct
Wk 3 – 19 to 21 Sep	Wk 3 – 17 to 19 Oct
Wk 4 – 24 to 27 Oct	Wk 4 – 14 to 17 Nov
Wk 5 – 21 to 24 Nov	Wk 5 – 5 to 8 Dec

Duration : 17 days over 5 months (140 hrs)

Time : 9:00am – 5:00pm

Course Fee : \$7,704.00 (Incl. 7% GST)

Certification Fee : \$588.50(Incl. 7% GST)

Any further enquiries, please contact us at
Tel: (65) 6749 9828 Email: enquiries@businessfuture.com.sg