Silicon Beach Training

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Lean Six Sigma Green Belt Training

By achieving a Green Belt in Lean Six Sigma, you will understand and be able to implement many ways to improve your business processes, quality and profitability.

After attending our Lean Six Sigma Green Belt Foundation training course, you will have the tools and knowledge to run individual Six Sigma projects. Once you have one under your belt, you can take our Black Belt Conversion training course.

Objective

At the end of the five day Lean Six Sigma Green Belt Foundation training course delegates will understand and be able to:

- Apply the principles of the Six Sigma DMAIC performance improvement model.
- Establish the "Voice of the Customer" in defining the required performance standard.
- Use a number of measurement approaches and tools to establish current performance.
- Use appropriately a number of basic analysis tools and techniques to establish the root cause of a problem.
- Understand key lean concepts and tools, when and how to apply them to drive improvements.
- Recognise the difference in approach and techniques for incremental and redesign.
  improvement strategies and know how to decide on the correct approach.
- Establish ongoing process controls and process governance structures.

Details

Duration: 5 Days

Course PreRequities

Recommended for managers, internal consultants, change agents, project managers, team leaders and team members who will be involved in Lean Six Sigma projects.

Course Content

Define

- Understanding Variability
- Project Charter
- Stakeholder Analysis
- Communication Plan
- Identify and segment key Customers
- Critical to Quality (CTQ) Requirements
- Verifying CTQs
- Hi-level Process map
- Process Vision
- Project Plan

Measure

- Measurement Basics
- Measurement process and plan
- Selecting Measures
- Measuring Value
- Cost of Poor Quality
- Data definition and sources
- Gauge R&R
- Sampling
- Measuring yields and capability
- Implementing the measurement plan

Analyse

- Data Analysis
- Pareto charts
- Frequency charts
- Run charts
- Variation
- Process Mapping and Analysis
- Value Stream Analysis
- Complexity
- Cause and Effect Analysis
- Verifying causes
- Scatter diagrams
- Design of Experiments

Improve

- Process Vision
- Brain storming
- Lean principles
- 5S's
- Little's Law
- Push versus Pull
- Visibility
- Setup reduction
- Theory of Constraints Evaluating solutions
- Decision Analysis
- Impact Effort Matrix
- Selecting solutions
- Developing solution options
- Business scenarios
- Pilot testing
- FMEA risk analysis
- Implementation planning
- Force field analysis

Control

- Simple and appropriate documentation
- Mistake Proofing
- Statistical Control
- Variation
- Control Charts
- I, X Bar and R Charts
- Response Charts
- Process Management
- Process Scorecards
- Project Close and Handover