

Here is an outline for Phase I – the workshop phase.

### Day 1

- Comprehensive Review/Overview LSS
- Review/Overview DAMIC Model
- Review/Overview PDCA process
- Review Lean Six Sigma Principles/Terminology
- Stakeholders Analysis/Project Charter/Business Case
- Return on Investment Models
- Information Gathering Tools
- Critical Thinking Skills

### Day 2

- Identifying Eliminating Waste – Speed Bumps
- Measurement of Central Tendency
- Basic Statistical Tools
- QC Analytical Problem Solving Tools
- SPC – Statistical Process Control
- Process Capability Index (CpK, PpK)
- Case Studies/Practice Exercises

### Day 3

- Lean Six Sigma Graphs and Tools
- Theory of Constraints
- Appropriate Project Selection
- Failure Mode Effects Analysis
- Root Cause Analysis
- Quality Characteristics for Graphing
- 5s Model – Expanded
- Models: 3P; 6Ms; 8D Process
- Introduction to DFSS

### Day 4

- Advanced Lean & Six Sigma Tools
- Interpreting Charting Patterns
- Six Sigma Basic Statistics: Inferential and Descriptive
- Design of Experiments (DOE)
- Variation Analysis
- Lean Consumption
- Hypothesis Testing
- Mistake Proofing/ Failure Modes and Effects Analysis
- Measurement System Analysis
- Project Selection and Application
- Value Stream Mapping
- ANOVA

## Day 5

- Leadership in Lean Six Sigma
- Strategic Analysis Overview
- Introduction to Statistical Software
- Gage R&R Exercises
- Workable Score Card Methods
- Getting the Lean Six Sigma Buy-in From Staff
- Managing Difficult Team Members
- QFD/House of Quality
- How to Write a Compelling Lean Six Sigma White Paper
- Creating a Project Plan

### Here is the outline for Phase 2 – the Reinforcement Phase

5 on-line homework assignments that reinforce Phase 1 and provide additional practice using various graphs and templates.

On-line assessment to determine if student is ready for Phase 3

Additional and/or optional assignments may be required based on the assessment

### Here is the outline for Phase 3 – the Practical Application Phase

Private post-instructor/mentor works with student to create:

Two project charters

Two Black Belt level projects

One Lean Six Sigma Article or White Paper

Editors on staff work with interested students to get items published