Learnsoft
ENTERPRISE TRAINING

Lean Six Sigma – Green Belt Certification

Length: 5 Days

Summary: In this Lean Six Sigma Green Belt course you will learn how to improve customer satisfaction, service delivery, cost control, process performance, and new product introduction. You will be introduced to Lean and Six Sigma methodologies and focus on the speed and quality of business processes.

You'll also learn how to:

- Function as a 'tools application' member of a Six Sigma project team
- Lead and execute process-level improvement projects
- Collect process data and develop process maps
- Develop statistical hypotheses using simple statistical tools
- Design simple experiments and/or implementation plans that help validate improvement options
- Eliminate waste and defects by applying lean and Six Sigma principles
- Collect, analyze, and quantify data that enable process improvements
- Learn how to execute the Six Sigma methodology

The course length consists of 40 hours of classroom instruction plus assignments between classes. At the end of the training, the instructor will provide an exam based on the ASQ Body of Knowledge which will include your Certificate.

COURSE CONTENT

1. Overview and Foundation of Lean and Six Sigma
2. Drivers and Metrics
3. Projects
4. Theory of Constraints
5. Customer Data
6. Project Planning Tools
7. Project Documentation
8. Basic Lean Six Sigma Metrics
9. Team Dynamics and Performance
10. Overview of Measure
11. Introduction to Minitab
12. Process Mapping
13. Cause and Effect Analysis
14. FMEA
15. Probability and Statistics
16. Measurement Systems Analysis
17. Data Collection and Summary
18. Process Capability
19. Analyze Phase Overview
20. Hypothesis Testing
21. ANOVA
22. Regression
23. Chi-square
24. Graphical Analysis
25. Lean Analysis Tools
26. Analyze Phase Transition
27. Improve Overview
28. Lean Improvement Tools
29. Introduction to Design of Experiments
30. DoE Golf Experiment
31. Implementation and Validation Solutions
32. Control Phase Overview
33. Standard Work
34. Control Charting
35. Control Plans
36. Control Phase Transition