
Lean Six Sigma Green Belt Workshop – Part 1

Course Content

This course is an accelerated Lean Six Sigma Green Belt, a one-week Green Belt boot camp. Basic knowledge of Lean Six Sigma concepts and principles is highly recommended. The course will teach you how to start statistically solving common quality problems and improving processes. We teach Gage R & R, which ensures the gauges of your product are correct. The course will cover a majority of the tools and techniques in the Lean Six Sigma DMAIC methodology.

Who Should Attend

Plant managers, manufacturing engineering managers, Industrial engineering managers, purchasing managers, supply chain managers, product design engineering managers, product design engineers, manufacturing engineers, process engineers, industrial engineers, tooling designers, tooling engineers, quality engineers, schedulers, supervisors, set-up operators, inspectors, buyers, and purchasing agents.

Price: \$1,295

Prerequisites

Lean White Belt or Lean Six Sigma Yellow Belt Training

Course Materials

Each participant will receive course documentation in pdf format. A trial version of Minitab needed for classes.

Course Goals

- Learn the Lean Six Sigma concepts and techniques to support Operational Excellence performance
- Learn how to statistical data to solve problems and improve processes
- Learn how to lead a Green Belt Project
- **To become a Certified Lean Six Sigma Green Belt**

Course Outline – Part 1

- **What is Operational Excellence?**
 - What is Lean Six Sigma?
 - A Brief History of Operational Excellence
 - The Journey to World Class Excellence
- **The DMAIC and Define Phase**
 - Project Charter & Define Phase
 - Roles & Responsibilities
 - Voice of the Customer (VOC)
 - Lean Six Sigma VOC Measurables
 - Stakeholder Analysis; SIPOC
 - Group Technology Analysis
 - 8 Waste, 5S, and Visual Workplace
- **Measure Phase**
 - Kaizen Event = Continuous Improvement Workshop
 - Baseline Data Collection
 - Current State Value Stream Maps,
 - Current State Layouts, Spaghetti Diagrams
 - Types of Data; Histograms & Pareto Charts
 - Operator Analysis
 - Probability and Statistics; Box Plot and Scatter Plot
 - Statistical Process Control (SPC); Gauge R&R studies
 - Process Capability (Pp/Ppk)
 - Introduction to Lean Edit
 - Introduction to IGrafx
 - Introduction to Minitab

Course available at your facility.

Lean Six Sigma Green Belt Workshop – Part 2

Course Content

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Course Outline – Part 2

- **Analyze Phase**
 - Analyze Phase Overview
 - Kaizen Event = Continuous Improvement Workshop
 - Future State Value Stream Map
 - Future Lean Layouts
 - Future Layout Spaghetti Diagram;
 - Takt Time Analysis
 - Setup Reductions
 - One Sample, Two Sample, and Paired T-Tests
 - DPMO Calculations; Reliability and Quality Specifications
 - Pull Production; Kanbans; Heijunka
- **Improve Phase**
 - Lean Six Sigma Comparison Analysis
 - Standardization
 - Implementation Plan
 - Verifications and/or Qualifications Testing
 - Control Plan
- **Control Phase**
 - Implement Control Plan
 - Conduct Verifications and/or Qualifications Testing
 - Capture Improvement Data
 - Audit Improvement
 - Sustain Improvements
- **Optional Lean Six Sigma Green Belt Certification Exam**

Course available at your facility.