



Lean Six Sigma Yellow Belt

Course Content and Outline

Total Estimated Hours: 26.95

Session 1: Lean Six Sigma Introduction (4.00 Hours)

- Introduction
- Higher Standards for Higher Performance
- Lean Six Sigma Defined
- What's In a Name?
- Success Stories
- Input Determines Output
- The 99.9% Problem
- The Sigma Level
- Calculating the Sigma Level – Toolset
- DNA of a Champion
- Lean Six Sigma Framework
- Focus on The Customer
- DMAIC - The Lean Six Sigma Improvement Process
- Lean and DMAIC
- Organizing for Success
- Working Relationships
- Session 1 Skill Check

Session 2: Tools to Define (6.85 Hours)

- Session 2 - Introduction
- Project Charter Toolset
- Process Thinking
- The Source of Value
- Value Stream Leverage
- Process Mapping - Overview
- Process Mapping (SIPOC) Toolset
- Flow Charts
- Value-Added Flow Charts
- Spaghetti Charts
- Value Stream Mapping Toolset
- Capturing The Voice Of The Customer
- Where to Go For Customer Requirements
- Affinity Diagram Toolset
- CTQC Tree Diagram Toolset
- Voice Of The Customer As Specifications
- Session 2 Skill Check

Session 3: Tools to Measure (4.85 Hours)

- Session 3 - Measure
- Measurement & Metrics
- Measurement As A Process
- Baseline Performance
- Trend Chart Toolset
- Histogram Toolset
- Quantifying Process Variability
- SPC - Introduction and Background
- X and Moving Range Charts - Toolset
- Pareto Chart Toolset
- Session 3 Skill Check

Session 4: Tools to Analyze (3.35 Hours)

- Session 4 - Introduction
- Cause & Effect Diagram Toolset
- 5-Why, 1-How
- FMEA Toolset
- Scatter Plot Toolset
- Correlation and Regression Analysis
- Session 4 Skill Check

Session 5: Tools to Improve (5.05 Hours)

- Session 5 - Introduction
- Brainstorming
- Benchmarking
- Continuous Flow Toolset
- Quick Changeover Toolset
- Pull Scheduling
- Error-proofing
- Prioritizing and Selecting a Solution
- Piloting a Solution
- Session 5 Skill Check

Session 6: Tools to Control (2.85 Hours)

- Session 6 - Introduction
- Control Charts Revisited
- 5-S Approach
- Visual Control
- Control Plan
- TPM Objectives & Benefits
- Standardized Work - Documenting Process Changes
- Session 6 Skill Check
- Course Completion

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