

LEAN 1 2 3

DMAIC Roadmap: Course Content and Outlines



Lean 1: Lean Fundamentals 3.95 hrs

- Introduction
- The 5 Lean Principles
- DMAIC - The Improvement Process
- Process Thinking
- The Source of Value
- The Source of Value: Gemba
- The 8 Forms of Waste
- Process Mapping Overview
- Value-Added Flow Charts
- Takt Time
- Spaghetti Charts
- 5-Why, 1-How
- 5-S Approach
- Visual Management
- Standardized Work – Overview
- Closing Remarks
- Skill Check
- Course Completion

Lean 2: Problem Solving 8.55 hrs

- Lean 2 Introduction
- Introduction to EngineRoom®
- Stakeholder Analysis – RACI Matrix
- Affinity Diagram Toolset
- CTQC Tree Diagram Toolset
- Operational Definition Toolset
- Value Stream Mapping Toolset
- Leveling Production (Heijunka)
- Measurements
- Discrete vs. Continuous Measurements
- Pareto Chart Toolset
- FMEA Toolset
- Error-proofing
- Continuous Flow Toolset
- Cellular Processing Toolset
- Core Process Pull Toolset
- Skill Check
- Course Completion

Lean 3: Advanced Lean Tools 10 hrs

- Lean 3 Introduction
- Voice Of The Customer As Specifications
- Cause & Effect Matrix Toolset
- Histogram Toolset
- Trend Chart Toolset
- Derivative Performance Metrics – Throughput Yield
- Derivative Performance Metrics – Rolled Throughput Yield
- Quick Changeover Toolset
- The Theory of Constraints Toolset
- Pull System Overview
- Pull Scheduling
- Replenishment Pull Overview
- Total Productive Maintenance
- TPM Objectives & Benefits
- TPM Metrics
- TPM Core Elements
- TPM Maintenance Activities
- Leader Standard Work Toolset
- Benchmarking
- The A3 One-Page Report
- Skill Check
- Course Completion

