



Lean Methods for Performance Excellence

16 Hours

Software: JMP, Excel, and iGrafx

Prerequisites: None

Audience and Purpose:

This course focuses on lean methods for achieving excellence in product, service and process performance. This course is written in support of all areas of product design, development and manufacturing and related infrastructure support groups. Core elements of this course are also integrated into both green belt and black belt training programs. It is assumed participants will come from all organizations and will be working on a variety of projects across the company.

Course Description:

Lean methods for performance excellence covers the specific philosophies, concepts and tools related to achieving breakthroughs in cycle time, speed and waste elimination.

Course Outline:

Section I Introduction to Lean Methods

- Understanding value
- Waste identification and definition
- Understanding the impact of flow, pull and push
- Velocity and speed
- Lean and six sigma integration
- Just in time concepts
- Theory of constraints
- Lean metrics

Section II Measuring Waste

- Lead time
- Process time
- Efficiency
- Cycle and Takt time
- Inventory efficiency
 - Speed and velocity metrics
 - Lean and ROI evaluation
 - Inventory days

Section III Lean Strategies

- Kaizen approach to achieving lean performance
- Six sigma approach to project management

Section IV Lean Analysis

- Measuring and analyzing waste using JMP
- Value stream mapping and analysis using iGrafx



Detailed process mapping and analysis using iGrafx
Lean by Design
 Lean application to new product development
 Lean application to new process or service development

Section V Lean Principles and Solutions
Pull rather than push
Kanban and signaling methods
Visual controls
Rapid setup and change over – SMED
Batch size and WIP reduction
Load leveling
Inventory management, signaling and supermarkets
Standardized work
5s

Section VI Lean Summary and Application Strategy
Next steps for adding lean to current activities and projects