

GBMP Combining Lean & Six Sigma



THIS IS A ONE-DAY COURSE THAT INTRODUCES THE POSSIBILITIES OF COMBINING SIX SIGMA VARIATION REDUCTION AND PROBLEM SOLVING TOOLS WITH LEAN MANUFACTURING TECHNIQUES.

Overview: This course demonstrates the power of adding statistical analysis to your Continuous Improvement program. The classroom training builds on the Lean techniques of 5S and Value Stream Mapping to construct a basic Six Sigma Process Map. This technique identifies the Key Process Inputs that drive Customer Requirements and also points to Quality “bottlenecks” and process yield issues. An overview of the basic Six Sigma Variation Reduction toolbox is also provided including the following:

- The Measure, Analyze, Improve & Control (MAIC) Road Map
- Basic Statistical Analysis
- Gage R&R Measurement System Analysis
- Failure Modes and Effects Analysis (FMEA)

A brief discussion of the following tools is also provided:

- Statistical Process Control (SPC)
- Analysis of Variance (ANOVA)
- Design of Experiments (DOE)

Shop Floor time is included to explore the “on site” opportunities for use of the Six Sigma variation reduction toolbox. The starting point will be the “on site” Value Stream Map constructed during a previous portion of the Lean Certification course.

After taking this class attendees will be able to:

- ✓ Construct a Process Map that will
- ✓ Identify Quality “Bottlenecks” and yield problems
- ✓ Identify Key Process Input Variables that drive Customer Requirements
- ✓ Understand the role of basic statistical analysis in Process Variation Reduction and Control
- ✓ Execute a “Gage R&R” measurement system evaluation
- ✓ Acquire an overview of the basic Six Sigma tools.

Who should attend? This course is especially relevant for employees seeking to expand their Lean / Continuous Improvement programs to include the power of Six Sigma statistical Methods for Continuous Improvement.

Time Commitment? 8 hours



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