



COMPANY AND INSTRUCTORS:

Quantum Leap Engineering Inc. (QLE), is a systems integration group specializing in training and implementation of Six Sigma; Lean; Lean-Six Sigma; Design for Six Sigma (DFSS); Kaizen Events; Value Stream Mapping; Product & Process Cost Reduction; Supply Chain Programs and 5S programs. QLE provides public workshops and on-site training and consulting. Workshops in Statistical Methods, Statistical Process Control, Measurement System Analysis, Design of Experiments and others can be adapted and designed to meet your company's specific employee training requirements.

Sean, P.E., CSSBB, has over 25 years of operational, quality and engineering experience. He specializes in training and implementing Lean-Six Sigma Methodology and using Kaizens to accelerate the implementation of Lean-Six Sigma projects. Sean has a Master's degree in Engineering, is a graduate of the Business Management Program from MIT's Sloan School, is a registered Professional Engineer (PE) and a Lean-Six Sigma Master Black Belt.

Mike, Ph.D., has over 30 years of experience in statistics. He specializes in Stats and DOE and trains companies in continuous improvent programs and quality system development/implementation.

"We learned a tremendous amount from your training. The Six Sigma projects were a great way to apply the tools and save the company money immediately-3 month payback."

Vice President of Operations

REGISTRATION

Register at www.SixSigmaPlusLean.com or Fax Form to 508-643-7337

Name: _____ Title: _____

Company: _____

Address: _____

City: _____ State: _____ Zip: _____

Business Phone: _____ Fax: _____

E-Mail: _____

Course cost is \$6,650



**Lean - Six Sigma
Black Belt
12 Day Certification Class
2011**

**Nov 14th - Nov 17th - 1st week
Nov 29th - Dec 2nd - 2nd week
Dec 12th - Dec 15th - 3rd week**



**Where: Southboro/Framingham, or
Lexington/Burlington, Massachusetts**

**Lean + Six Sigma= Quantum Leaps in
Efficiency and Profitability**

TELEPHONE: 508-954-0185



12 DAY LEAN-SIX SIGMA BLACK BELT CERTIFICATION CLASS

The goal of this 12 day class is to teach the key problem solving skills ("soft" tools and statistical tools) in Six Sigma to allow your employees to solve difficult problems back at your facility. ROI for this training is usually 6 months or less. In this 12 day course, the instructors will teach the following Six Sigma and Lean tools: (Introduction to Six Sigma, DMAIC Model, Gage R&R, Process Capability, Methods Probability and Statistical Methodology, FMEA, Cellular Design, ANOVA, basics of Design of Experiments (DOE), SPC basics, Control Charts). Minitab statistical software (30 day trial) will be used in the class. For certification, the student will be required to take a 5 hour test and complete a Black Belt project.

"Quantum Leap Engineering is very effective both at teaching the continuous improvement tools and working with the company to implement the changes. Our management demands ROI and that's what Quantum Leap Engineering delivers."

Plant Manager

LEAN SIX SIGMA BLACK BELT (LSS BB) COURSE OUTLINE

I. Define Phase: Lean-Six Sigma

- Lean-Six Sigma Introduction
- Lean-Six Sigma Concepts
- Project Selection Criteria
- DMAIC / DMADV
- Project Charter



II. Measure Phase: Lean Six Sigma

- Lean-Six Sigma Metrics
- Review Data Collecting Approach
- Probability and Statistics Methodology
- Introduction to Minitab 16
- Introduction to Process Capability (Cpk/Cp)
- MSA, Gage R&R
- (MTM)-Methods and Time Measurements training
- Process Mapping / Value Stream Mapping

III. Analyze Phase: Lean Six Sigma

- Present Multi-Vari Study Approach
- Hypotheses Testing Approach
- Understand the application of Confidence Intervals
- Analysis of Variance Methodology (ANOVA)
- Minitab Analyze Phase Applications

IV. Improve/Design Phase: Lean-Six Sigma

- Design of Experiments (DOE)
- Minitab Improve Phase Applications
- Design of Manufacturing Flow Lines
- Future State Value Stream Map

V. Control/Verify Phase: Lean-Six Sigma

- Control Charts: Variable & Attribute
- Pilot Phase for New Process
- Roadmaps for Lean-Six Sigma
- Intro to Minitab's Quality Companion Software
- Case Studies

VI. Required Leadership Skill for Successful LSS BB Projects

- What type of leader are you?
- How to go from "Good" to "Great"
- How to lead effective teams
- How to meet management's expectations

VII. Black Belt Test

VIII. Black Belt Project



COURSE COST IS \$6,650

**Call Sean Anzuoni for additional
information at 508-954-0185 or
E-mail Sean@QuantumLeapEng.com**

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Phone (508) 954-0185

**Please make checks payable to:
Quantum Leap Engineering, Inc.**

**See www.SixSigmaPlusLean.com
for other course offering.**