LEARN SIX SIGMA GREEN BELT

LEAN + SIX SIGMA
Two Powerful Initiatives, One Integrated Program

Dramatically improve cost, quality, and delivery by combining the strengths of two powerful business process improvement initiatives through the systematic approach of the TMAC Lean Six Sigma (LSS) program.

Integrated into the Define, Measure, Analyze, Improve, Control (DMAIC) project management structure, Lean + Six Sigma results are impactful, robust, and sustainable.

Expect to be immersed in a hybrid learning environment of instruction, group exercises, hands-on simulations, teach-backs, project presentations and review of industry case studies. Experienced instructors emphasize practical application of tools and share lessons learned from hundreds of completed projects.

Earn your LSS GB certification by completing the course and applying what you’ve learned on a project according to the TMAC certification guidelines.

The Texas Manufacturing Assistance Center (TMAC) accelerates the profitable growth of manufactures by implementing methods, innovation, technology and best practices to develop and improve products, processes and people. TMAC South Central Region operates out of Southwest Research Institute (SwRI) in San Antonio, TX. TMAC is an affiliate of the Manufacturing Extension Partnership (MEP) program of the National Institute of Standards and Technology (NIST).

LEARNING DOESN'T STOP ONCE TRAINING IS OVER
Participants can access TMAC LSS Master Black Belts before, during, and after training for coaching to rapidly apply what they learn.

ENGAGE WITH MORE THAN 30 LSS TOOLS
See back for full list.

IMPACT OF $100,000 PER YEAR
TMAC Green Belts experience a median financial impact of $100,000 per year.

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MODULES

LEAN PROCESS FLOW
- 5s Workplace Organization
- ABC Stratification
- Kaizen Rapid Improvement Events
- Mistake Proofing
- Process Flow & Balancing improvement
- Pull Systems and Kanbans
- Quick Improvement Methods
- Rolled Throughput Yield
- Setup Reduction (SMED)
- The Value of Speed
- Value Stream Mapping
- Visual Process Control Tools
- Work Simplification

PROJECT AND TEAM TOOLS
- Cause & Effects Matrix
- Failure Modes and Effects Analysis (FMEA)
- Piloting the Solution
- Process Control and Implementation Plans
- Project Charters
- Project Planning & Management
- Solution Generation and Selection
- Team Facilitation & Brainstorming Methods
- Voice of Customer (VOC) Analysis

STATISTICAL ANALYSIS
- Analysis of Variance (ANOVA—One and Two Way)
- Basic Statistics and Variation
- Confidence Intervals
- Control Charts
- Data Collection
- Design of Experiments (DOE)
- Hypothesis Testing
- Measurement System Analysis
- Process Capability
- Regression Analysis

INCLUDED
- Multiple LSS References: Guide books, Pocket Toolbooks and Binders of the weekly slides.
- Sigma XL statistical software (MS Excel add-on)
- Access to TMAC LSS Master Black Belts before, during and after training for:
  - Project chartering
  - Project coaching
  - Tool selection and interpretation of results
  - Review of project documentation for certification
- Lunch and snacks

REQUIRED
- Laptop computer with MS Excel.
- Participants should come to the event with a defined problem description that is impacting the business. Instructors will assist participants in completing a project charter.

REGISTRATION
- TMAC.SWRI.org
- $3,990 per participant (group discounts available)