



TEXAS A&M
ENGINEERING
EXTENSION SERVICE

LEAN SIX SIGMA GREEN BELT CERTIFICATION



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.

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*

Earn your LSS GB certification.

Complete the course. Apply what you've learned on a project according to the TMAC certification guidelines. Become certified.

**TMAC Green Belts experience a
median financial impact of
\$101,000 per year.**



\$3,990
per participant
(group discounts available)

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

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.

Main Topics

Module

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
	Set-up Reduction (SMED)
	The Value of Speed
	Value Stream Mapping
	Visual Process Control Tools
Project and Team Tools	Work Simplification
	Cause & Effects Matrix
	Failure Modes and Effects Analysis (FMEA)
	Piloting the Solution
	Process Control and Implementation Plans
	Project Charters
	Project Planning & Management
	Solution Generation & Selection
Statistical Analysis	Team Facilitation & Brainstorming Methods
	Voice of the Customer
	Analysis of Variance (ANOVA)
	Basic Statistics & Variation
	Confidence Intervals
	Control Charts
	Data Collection
	Design of Experiments (DOE)
	Hypothesis Tests
	Measurement System Analysis
	Process Capability
	Regression Analysis

TO REGISTER VISIT: teex.org/class/MAP021/



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The Texas Manufacturing Assistance Center (TMAC) accelerates the profitable growth of manufacturers by implementing methods, innovation, technology and best practices to develop and improve products, processes and people. TMAC TEEX and East Central Regions operate out of the Texas A&M Engineering Extension Service in Houston and College Station, TX. TMAC is an affiliate of the Manufacturing Extension Partnership (MEP) program of the National Institute of Standards and Technology (NIST).