

The  
University of Texas San Antonio (UTSA) Contracting Resource Center  
San Antonio Manufacturers Association (SAMA) &  
The Texas Manufacturing Assistance Center (TMAC)

*Proudly Presents*

# THE LEAN MANUFACTURING CERTIFICATION PROGRAM

At The UTSA Downtown Campus  
Institute for Economic Development (IED)  
501 West Durango Boulevard, 2nd Floor, Training Room 2.316

Fall 2009 Series

8:00 a.m. to 5:00 p.m.

Monday, October 5th, 12th, 19th, 26th and November 2nd

**Sessions Limited  
to 20 Students!**



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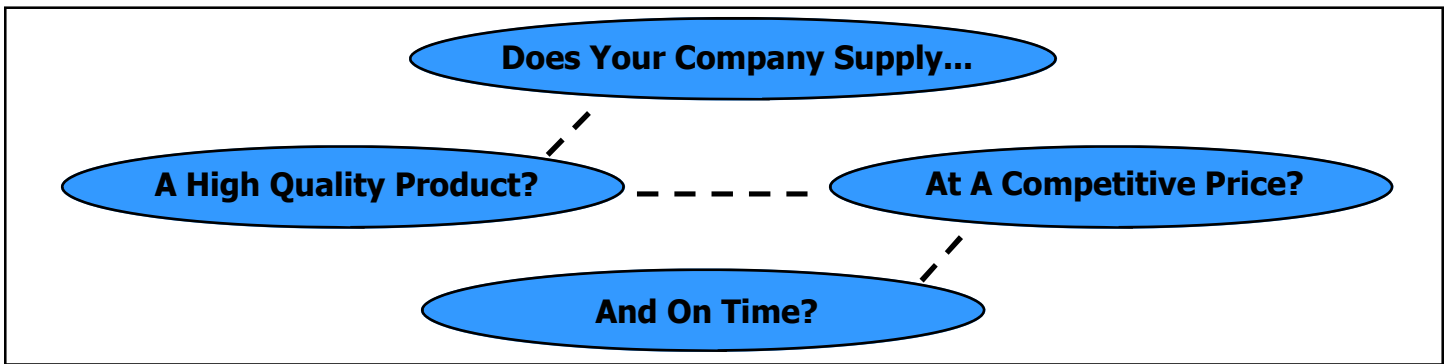
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## PROGRAM PROVIDED BY





## The Lean Manufacturing Certification Program

This unique program provides companies the opportunity to provide their employees with a strong foundation in the Lean concepts and tools that are used to drive continuous improvement and achieve world-class business performance. A “first-of-its-kind” in the San Antonio Metropolitan Area, the certification consists of nine “Lean Tools” that can be applied in any business environment. Participants completing the entire series will receive a certificate of completion on Lean Manufacturing by the University of Texas at San Antonio (UTSA) Technology Center. Continuing Education Units will also be available!

### CERTIFICATION PROGRAM

**Day 1 – Module 1. Principles of Lean** — Gain an understanding of the eight wastes and the Lean Principles designed to eliminate wastes in business processes. Through hands-on simulations, participants learn about standardized work, workplace organization, visual controls, set-up reductions, batch size reduction, point of use storage, quality at the source, workforce practices and pull systems.

**Module 2. Value Stream Mapping Current State Part I** — Learn how to map the current state of information and material flows using a case study. Participants learn to see the entire value stream for a product.

**Kaizen Events and Team Facilitation Part I**— Understand the difference between Kaizen and Kaizen events. Learn how to promote, enable, and sustain team effectiveness within your organization.

**Day 2 – Module 3. 5S Workplace Organization** — Covers the basics of sort, set in order, shine, standardize, and sustain. Participants learn how workplace organization and standardization is the foundation for creating a Lean environment.

**Module 4. Cellular/Flow Manufacturing** — Discover the basic elements of Cellular/Flow Manufacturing, which include point of use concepts, workstation design, process layout, work combination and line balancing and Takt time.

**Day 3 – Module 5. Standard Work** — Understand the elements of standard Work: Takt time, work sequence and standard WIP. The instructor will lead the class through the process for developing standard work in a work cell. Standard work is the key to standardization and waste analysis in the cell.

**Module 6. Pull/Kanban Systems** — Learn how to design and implement a visually driven, employee-controlled material replenishment system.

**Day 4 – Module 7. Total Productive Maintenance** — Provides an overview of the TPM methodology to proactively maintain machines and equipment at their peak productivity. Learn to increase overall equipment effectiveness and how it can help avoid interruptions to production.

**Module 8. Setup Reduction** — Introduce the concepts and principles of Quick Changeover and the application of the Single Minute Exchange of Die (SMED) system to analyze changeover tasks and identify improvements.

**Day 5 – Module 9. Value Stream Mapping Future State Part II** — Using the current-state map and applying the Lean Principles, participants learn how to identify and eliminate non-value added activities, or wastes, in the value stream to achieve an enhanced future state.

**Kaizen Facilitation and Event Examples Part II** — By applying basic facilitation skills, learn how skills in team formation, facilitation, management and optimization. See how these skills have been successfully applied to various business processes in real life case studies.

**Module 10. Plant Tour and Graduation** — Visit a SAMA Member’s manufacturing facility and receive the Lean Manufacturing Certificate.

## WHO SHOULD ATTEND

Business Leaders, Operations Managers, Supervisors, Engineers, Buyers, Administrators, Directors and Individuals ready to meet the challenge of continuous improvement. This class is designed for the novice implementer and not for an advanced practitioner of Lean Manufacturing concepts.

## TESTIMONIALS

The Lean Manufacturing Certification Program covers countless ways to eliminate waste (lost profit) and streamline processes. While some of the concepts taught are simple, others will completely shift paradigms. Information is presented with heavy emphasis in team work, organizational behavior and, most importantly, what has to be done to successfully implement waste reducing techniques. All presenters are experts who display extensive knowledge and also understand that common sense has to be a part of any plan to increase efficiency. While Lean is geared at manufacturing, I have already implemented changes in our distribution system that has saved more money than what it costs to attend - and the class is still in progress. Management has observed the value of the ideas this course brings to the elimination of unnecessary procedures that are contributing directly to customer service and increasing profitability. The Lean Manufacturing Course is truly an incredible investment. — *Chris Lorenz, CPP, CPS, Certified Packaging Professional, Certified Packaging Specialist, Pack-Mark, Inc.*

Not to downplay the importance of lean but it is what it is. It has *SIMPLIFIED* our process and made the routine just that, *ROUTINE!* As a light is to food for Pavlov's dog, large orders created panic seasoned with a little bit of anxiety. Did we have the materials? What did we have to build? Where was the labor going to come from? And most importantly what order was the priority? Was it the current shipment or the one dropped in our laps and tagged as "hot"?

Now with lean, honestly it doesn't matter if the month is pulling 3,500 or 5,000. **1,000 orders generate the same movement as 1 order.** Removing the waste, the hurdle, roadblocks and surprises, the raw material flows to the customer as finished goods.

From the production standpoint, the workforce's routine is routine and my managing is now manageable. — *Michael J. McIver, Vice President Manufacturing, Pressure Systems International*

## ATTENDEE FEES

**SAMA, NBMA & SMMA Member Fee:** **Lean Program**—\$1300 Per Person (\$1200 Per Person For Three Or More From One Company)

**Per Module**—\$500 each

**Non-Member Fee:** **Lean Program**—\$1500 Per Person (\$1400 Per Person For Three Or More From One Company)

**Per Module**—\$600 each

**Certification Program Fee includes** continental breakfast, lunch, lean series handouts, and breaks. **Cancellations** must be in writing and received 10 days prior to start of class. **(0.4 CEU Credits Per Unit Provided By UTSA).**

## REGISTRATION FORM

Company: \_\_\_\_\_ Attendee Name: \_\_\_\_\_

Address: \_\_\_\_\_ City: \_\_\_\_\_ Zip: \_\_\_\_\_

Email: \_\_\_\_\_ Phone: \_\_\_\_\_ Fax: \_\_\_\_\_

## PAYMENT INFORMATION

\$\_\_\_\_\_ **Amount Paid**

\_\_\_\_\_ **Check**—Complete form, make check payable to SAMA and mail to 9607 Broadway, Suite C, San Antonio, Texas 78217-4905

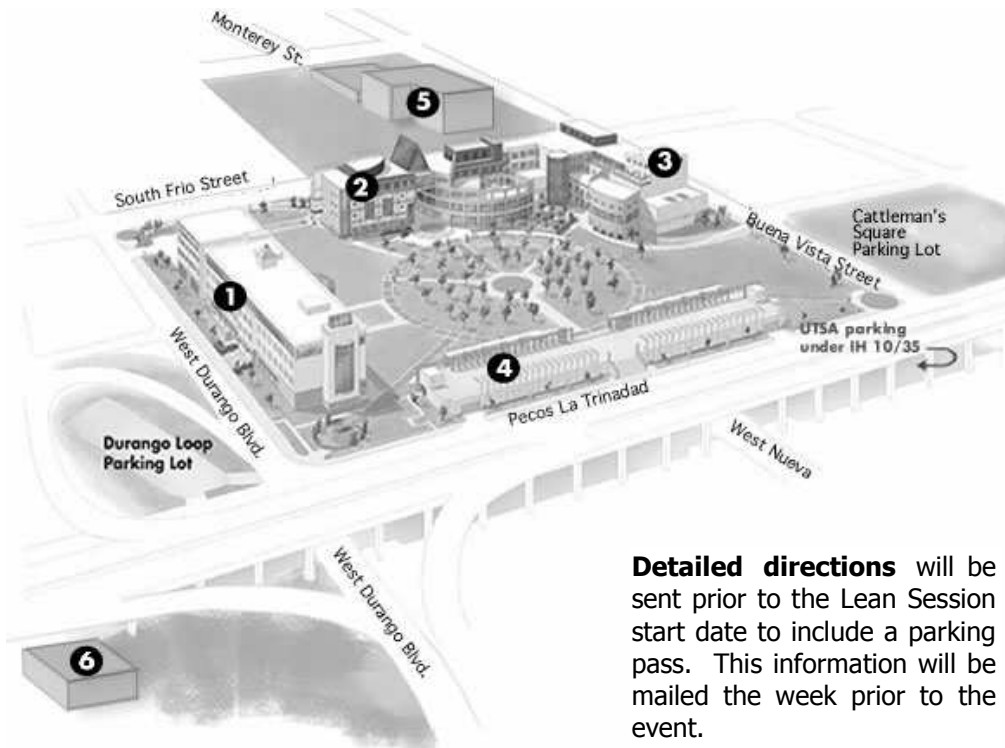
\_\_\_\_\_ **MasterCard/Visa Accepted**—Complete the registration form, then fax to (210) 979-0527

Credit Card No: \_\_\_\_\_ Expiration Date: \_\_\_\_\_

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## SAMA CONTACT INFORMATION

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**Detailed directions** will be sent prior to the Lean Session start date to include a parking pass. This information will be mailed the week prior to the event.

"The Contract Resource Center (CRC) is part of a partnership program between the U.S. Small Business Administration, U.S. Economic Development Administration, The University of Texas at San Antonio, and the South-West Texas Border Region Small Business Development Center. Funding is provided through EDA Award #008-49-03954 and SBA Cooperative Agreement No. 6-603001-Z-0049-20. Such funding does not constitute any expressed or implied endorsement of any of the co-sponsors' or participants' opinions, conclusions, recommendations, products or services. All Center programs are nondiscriminatory and open to the public. Reasonable arrangements for persons with disabilities will be made if requested two weeks in advance by calling 458-2458.

**San Antonio Manufacturers Association (SAMA)**

9607 Broadway, Suite C  
San Antonio, Texas 78217-4905  
Web Site: [www.sama-tx.org](http://www.sama-tx.org)

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