

Develop the **skills** you need to **succeed** in this
fully accredited program. Earn 4 CEUs.

Lean Tool Awareness Certificate (LTAC)



5 Interactive Days
8 Foundational Techniques
1 Powerful Program

June 4-8, 2012

Held on the campus of
The Ohio State University, Columbus, OH



The Lean Tool Awareness Certificate Program (LTAC)...

...is a powerful week-long training that will help you build the skills and confidence to make a difference in your organization. Held on the campus of The Ohio State University, this fully accredited program, teaches you how and where to start your Lean journey. Through a combination of classroom lecture, group activities and simulations, the LTAC program focuses on providing an understanding of Lean processes, tools and philosophy so you can develop strategies for implementation at your site.

Program Curriculum

For details on what is covered in each module, please visit www.productivityinc.com/certification/ltac.shtml

Monday, June 4	Tuesday June 5	Wednesday June 6	Thursday June 7	Friday June 8
8am-5pm	8am-5pm	8am-5pm	8am-5pm	8am-12pm
Visual Workplace	Value Stream Management	Strategic Planning & Policy Deployment	Total Productive Maintenance	Team-Based Problem Solving
		Standard Work	Achieving Quick Changeover	
			Mistake-Proofing	

You'll be in Good Company

Attendees come to the LTAC program from all industries. Here are some companies that have recently sent attendees.

Abbott Nutrition
Brookdale Senior Living
Cincinnati Thermal Spray
Clipay Plastics
Cytex Industries

Diamond Innovations
Gorbil, Inc.
Kraft Global Foods, Inc.
LGS Sky Chefs
Luxottica Optical Mfg

Millbank Manufacturing Co.
Nintendo of America
Revere Copper & Brass
Sensus Metering
T. Marzetti

The United States Mint
Williamson-Dickie Mfg. Co.
Wooster Community Hospital

Attendees to past LTAC programs

indicate that their objectives in attending the event were to gain a better understanding of Lean techniques so they could become more involved in their organizations' Lean initiatives. Here are some of their comments after attending:

"It was an excellent interactive way to learn, very valuable material (low cost/high benefit 😊)."

Maureen Becerra,
Manager of Emergency Services,
Wooster Community Hospital

"Well chosen content, each module had logical flow, good examples and pictures, (the) exercises aided (the) learning process."

Richard Bailey,
Global QA Leader,
Clipay Plastics

"Back at the office after a fabulous week. What a massive amount of information! Paul did a fantastic job with the presentation of the course. He really knows his stuff and is able to share in such an effective, easy to understand way. Again, thank you for helping me learn and grow"

Darren Haper,
Resource Center Specialist,
Kids in Need Foundation

Benefits of Attending:

- Increase your Lean knowledge
- Build confidence and credibility
- Gain an understanding of key concepts of Lean and how to apply them
- Differentiate yourself in a market filled with skilled professionals
- Learn how these foundational techniques fit together and when and where to use each

Join us this June on the campus of The Ohio State University for this intensive week-long learning experience and build the skills you need to succeed!



MODULE DESCRIPTIONS

MONDAY 8am-5pm

Visual Workplace

Learn the principles and techniques needed to apply 5S and establish visual management systems to improve workplace communication and adherence to standards. This module will explore how to share information, problems, abnormalities, waste, and unsafe conditions through visual display and controls, so that everyone understands at a glance what is going on in the workplace.

Participants will learn to:

- Set standards that are easy to see and understand
- Identify potential safety hazards
- Differentiate between visual control and visual display

TUESDAY 8am-5pm

Value Stream Management

Learn how to plot your Lean strategy—a proven requirement in the application of Lean production. This interactive module, adopted from the Toyota Production System, will teach you the step-by-step method of value stream mapping and storyboarding—how to gather the information needed to eliminate all non-value adding activities, and how to use it to plan the implementation of all Lean activities. You will practice what you learn in class, begin to plan the mapping of a process or product line in your company, and learn from others in order to accelerate your own application.

Participants will learn to:

- Create a current and future state value stream map (from supplier to customer)
- Create a storyboard that will communicate the current and future states to everyone
- Apply current and future state maps and storyboard in an actual case study

WEDNESDAY 8am-5pm

Strategic Planning and Policy Deployment

The fundamental purposes of hoshin kanri (strategic management) action in a Lean enterprise is to focus a company's improvement efforts on a small number of very well defined initiatives to align and mobilize SBU's, plants, departments, and all supporting personnel in the transformation process. In this module, we'll present a proven business renewal planning and deployment process that will allow you to incorporate your strategic priorities into daily work at every level in your organization. We will also review and discuss the key performance indicators, targets to improve, bowlers, and countermeasures that will ensure you remain on course and that your improvement projects are meeting your strategic objectives.

Participants will learn to:

- Understand the cornerstones of a Lean system
- Learn the key principles of policy deployment
- Learn a systematic approach to the implementation of Lean

Standard Work

Standard work is central to achieving and sustaining the Lean enterprise. By definition Standard Work demands adherence to today's best practices and must be imbedded in all we do, from standard operations in the workplace to standardized policies and procedures. In manufacturing operations, standard work is a key element in the elimination of waste and excess inventory and in achieving balanced and synchronized production. What it boils down to is that absent of standard work there can be no Lean. Guided by a classroom simulation, participants will use a proven methodology to develop a standard procedure, and then apply document control and visual workplace principles and techniques to train others in their new best practice, or standard work.

Participants will learn to:

- Understand the relationship between standard work and customer demand
- Analyze use of standards
- Create and document standards

THURSDAY 8am-5pm

Total Productive Maintenance/OEE

This module will preview each of the basic TPM Pillars, TPM, and the roots of Lean Manufacturing. Learn how the pillars relate to each other to create a natural synergy, and how they can result in an immediate return of the TPM investment when properly utilized in today's manufacturing workplace. Participants will have an opportunity to explore the Overall Equipment Effectiveness (OEE) metric through application of a business case study.

Participants will learn to:

- The role of TPM in a Lean implementation
- The benefits of a team-based approach to equipment care
- The importance of having operators involved in maintenance activities

Achieving Quick Changeover

Learn the principles and techniques needed to decrease changeover times and increase inventory turns. This module will teach you how to gain manufacturing flexibility while increasing your ability to react to customer demands and competitive pressures. Through a combination of lecture, group exercises and simulation, this module will demonstrate how you can reduce changeover time and make more changeovers to satisfy one-piece flow.

Participants will learn to:

- Understand the key concepts of Changeover
- Identify the differences between internal and external elements of work
- Improve internal and external activities

Mistake-Proofing

The best way to prevent defects is to examine the process, determine what condition led to the defect, and then control that condition. Mistake-Proofing (poka-yoke) devices automatically inspect for errors or defective operating conditions. This valuable module will demonstrate methods you can use to avoid and control defects in your own operations.

Participants will learn to:

- Prevent defects at their source
- Identify "red flag" conditions that commonly cause errors
- Reduce inspection costs by effecting low-cost 100% in-process inspection

FRIDAY 8am-12noon

Team-Based Problem Solving (CEDAC)

In this module you will learn about several reliable methods that are used to identify a problem's root cause and generate effective team-based solutions. We will discuss the scientific method that is imbedded in tools such as CEDAC® (winner of the Deming Prize), 8D, DMAIC and other structured techniques. You will learn how to use a simple, yet very effective cause and effect problem solving process to focus on priority problems and opportunities. This session is guided by a Lean business case study.

Participants will learn to:

- Identify key quality and productivity problems and opportunities
- Set and stay focused on key improvement targets
- Track daily progress visually, using performance indicators

Other Training and Consulting Services Available from Productivity

Lean Manager Certification Program (LMAC)

This highly interactive and fully accredited program teaches a carefully sequenced arrangement of Lean concepts and tools. Over four nonconsecutive weeks, each participant will experience a series of learning modules focusing on the four key phases of Lean implementation: Plan, Pilot, Deploy and Integrate. In between the weeks of training, students need to apply the methods that they have learned in operations at their own companies and present their results to the class. Participants who successfully complete the four week training and mentoring program, pass the two-hour certification exam and demonstrate successful implementation in their own facility are then certified by Productivity Inc. and the Fisher College of Business as Lean Managers. Earn 16 CEUs.

Lean Tool Awareness Certificate Program (LTAC)

Co-developed by Productivity Inc. and the Fisher College of Business at The Ohio State University, the Lean Tool Awareness Certificate program is a one week, fully accredited program that focuses on providing the knowledge base needed to understand and take part in the Lean transformation efforts in your organization. Earn 4 CEUs.

Total Productive Maintenance Certification Program (TPMC)

Moving from a reactive maintenance organization to a proactive maintenance organization requires constant improvement in the way the maintenance process is managed. To reach this goal, you must build a maintenance organization unburdened by firefighting and focused on preventive, scheduled and corrective maintenance activities. It is only when you have achieved a stable maintenance operation that you can reach your overall improvement goals. This program will teach you how to implement TPM in a simple, accelerated and cost effective manner. It designed for corporate and plant leaders charged with directing the maintenance organization and implementing a reliable method for improving the maintenance process. Participants who successfully complete the four-week training and mentoring program, pass the certification exam and demonstrate successful implementation of the techniques in their own facility are then certified by Productivity Inc. and the Fisher College of Business as TPM Managers. Earn 16 CEUs.

On-Site Training

Productivity offers a strong suite of Lean Tool workshops designed to remove roadblocks to Lean transformation. Hands-on, results driven sessions ranging from 1.5 to 4 days are delivered at your site. Whether you are looking for the basics to help you get started, or a more advanced tool to move your implementation to the next level, Productivity can help. We can also customize existing programs or design new ones tailored to address specific challenges facing your company.

On-Site Consulting

Working with small groups of employees from the boardroom to the manufacturing floor, our consultants will provide prescriptive solutions to your toughest implementation issues. Productivity's senior consultants are manufacturing process improvement professionals with real-world, hands-on experience implementing Lean and continuous improvement strategies in both the manufacturing and transactional environments. They are first generation Lean instructors—having worked with the originators of process improvement strategies such as Shigeo Shingo, Yoshiki Iwata, Ryuji Fukuda, Iwao Kobayashi, and Kenichi Sekine. Whether you are looking for an experienced mind to help with a specific issue or someone to assist in the development and execution of a Lean conversion, Productivity's skilled team can help.

Maintenance Miracle:

An Autonomous Maintenance Kaizen Event

During this four day kaizen event learn the steps necessary to involve operators in maintaining their own equipment through daily inspections, lubrications, parts replacement, simple repairs, detecting abnormalities and precision checks. At a host facility participants will apply the methods learned in the classroom to a real work environment.

The Lean Office Transactional Kaizen Event

During this four day hands-on event, you will learn how to apply the principles of waste elimination to a working office environment and administrative areas.

Annual Conferences

These dynamic events are aimed at helping you learn directly from practitioners who have had success implementing effective Lean and TPM principles to help you reach your improvement goals. These five day events attendee certification, in-depth knowledge transfer modules, case studies, gemba activities, networking opportunities, and more.

Results-Focused Workshops

All of the following workshops are taught using some combination of classroom lecture, group discussion, case study, and interactive simulation. Workshop length varies from 1-3 day sessions.

To learn more, visit us at www.productivityinc.com/workshops/.

- An Integrated Approach to TPM and Six-Sigma
- Empowering Your Workforce
- Creating Culture Change Through the 5S's
- Applying Lean to the Value Chain
- Leadership—Leading the Lean Initiative
- Lean in Action—featuring a plant tour of Autoliv, Inc.
- Lean Facilitator Training
- Lean Flow in an Administrative Environment
- Standardized Work
- Thinking Inside the Box: The PIT Crew Training Experience
- Policy Deployment
- The Visual Workplace
- Focused Equipment Improvement
- Value Stream Management

And more! Visit our website for details.

Productivity Healthcare Solutions

Bringing Lean Techniques to the Healthcare Industry

Productivity's Healthcare professionals have worked alongside providers, administrators, and payers to improve unique patient-care value streams. Productivity will customize an approach to build and integrate these capabilities in your organization. Our patient focused process improvement practices have been used in hospitals, clinics, insurance, and government sources to discover and remedy systemic causes resulting in measurable patient-care improvements.

For more information visit www.LeanHealthcareConsulting.org.

For complete details on these events or other Productivity Inc. consulting and training services, visit our website at www.productivityinc.com or give us a call at (203) 225-0451 or 1-800-966-5423.

REGISTRATION FORM

Lean Tool Awareness Certificate Program

June 4-8, 2012 at the Fisher College of Business at The Ohio State University, Columbus, OH

Please print. Copy this form for additional registrations.

NAME _____		TITLE _____
COMPANY _____		
ADDRESS _____		
CITY _____	STATE _____	ZIP _____
() _____	() _____	
PHONE _____	FAX _____	EMAIL (Your confirmation will be sent electronically—email is required) _____

Payment Options: Payment must be received BEFORE the event. This event fills up quickly therefore we cannot confirm your registration until payment is received.

Program Tuition: \$3,015.00

ENCLOSED IS MY CHECK FOR \$ _____ PAYABLE TO: PRODUCTIVITY INC., DRAWN ON A U.S. BANK.

CHARGE MY VISA MASTERCARD AMERICAN EXPRESS

CARD # (INCLUDE 3 OR 4 DIGIT SECURITY CODE) _____ (/ /) EXP. DATE ____ / ____ / ____

NAME ON CARD _____

BILLING ADDRESS FOR CARD _____

CARD HOLDER SIGNATURE _____

Cancellation Policy: Registrations may be transferred to another colleague without charge. To be considered for a refund, we must receive notification of cancellation in writing no later than 21 days prior to the event. Cancellations received within 21 days are subject to the full registration fee and money will be held on account for up to one year for use at a future workshop or conference. If no notification of cancellation is provided, registration fees will be forfeited. There is a \$200.00 processing fee for all cancellations.

On rare occasions, circumstances may make it necessary to cancel or postpone an event. As such, we encourage attendees to book refundable/reusable air tickets. We will not be responsible for incidental costs incurred by registrants. By registering for this event, you hereby acknowledge and agree that any photographs or videos taken during the event may be used in marketing efforts, including but not limited to news and promotions (web/print) without compensation to you.

Accommodations: A block of rooms is being held for Productivity Inc. LTAC attendees at the Blackwell Hotel on The Ohio State University campus. The address is 2110 Tuttle Park Place, Columbus, OH 43210. Productivity Inc. attendees have been given a reduced rate of \$129.00 per night single or double occupancy. Please call 614-247-4000 or toll free 866-247-4003 for reservations and identify yourself as a Productivity LTAC attendee. The special rate is available up to four weeks prior to the event; after this date the hotel cannot guarantee availability. For more information on the Blackwell Hotel, please visit www.theblackwell.com. The hotel is approximately 8 miles from the Columbus International Airport.

Note: All registrant applications will be evaluated for acceptance into the program.

To Register:

Call: 1-800-966-5423 or 203-225-0451

Online: www.productivityinc.com

Download: the registration form and fax it back to 1-203-225-0771 or mail it to:

Productivity Inc., 375 Bridgeport Avenue, 3rd floor, Shelton, CT 06484

