

2020 SPRING SESSION – MAY 19-22 – ARCHBOLD, OHIO – A 3 ½ DAY CERTIFICATE PROGRAM



MAINTENANCE MIRACLE AN AUTONOMOUS MAINTENANCE KAIZEN EVENT 2020 SPRING SESSION

Stop Equipment Deterioration
and Improve Uptime...in 3 Steps!



Developing standards for equipment operating conditions and preventing accelerated deterioration are two of the goals of Autonomous Maintenance*. In this 3½ day kaizen event, you will learn to apply AM Steps 1, 2, and 3 to improve equipment uptime and take back control of your production schedule!

*Autonomous Maintenance is the foundational Pillar of a Total Productive Maintenance (TPM) program.



"Very instructive and well-run event. Having the ability to implement the tools we were learning created an ideal platform to learn the principle to applying TPM in our own facility."
Monte Goins - TPM Coordinator - Crown Equipment





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MAINTENANCE MIRACLE

AN AUTONOMOUS MAINTENANCE KAIZEN EVENT

Event Details

Course Objective
Learn Autonomous Maintenance
Eliminate unplanned downtime

Business Sector
Manufacturing
Transportation
Municipalities

You Should Attend
Maintenance Leaders
Engineering Managers
Production Managers
Supervisors
Team Leaders
Process Owners

Duration
3 ½ Days

Dates & Location
May 19-22, 2020
Archbold, Ohio



Stop Equipment Deterioration
and Improve Uptime...in 3 steps!



PROGRAM DESCRIPTION

Autonomous Maintenance is the foundational pillar of a Total Productive Maintenance program and arguably one of the most important efforts in the transition from reactive to proactive maintenance.

The Maintenance Miracle, Autonomous Maintenance Kaizen event teaches you the methodology and application of Autonomous Maintenance Steps 1-3 using a combination of classroom lecture and hands on application. During the event you will develop skills to stabilize equipment performance and stop deterioration by learning:

- The role of maintenance and production associates in the care of production equipment.
- To clean and inspect equipment to identify abnormalities.
- How to:
 - identify sources of contamination and identify and eliminate inaccessible areas
 - apply visual controls to equipment,
 - create equipment improvements and contamination controls,
 - create one-point lessons (OPL),
 - construct, perform, and adhere to cleaning, inspection and lubrication (CIL) standards.

Working in teams alongside associates from the host facility, you will apply the methods learned in class to equipment in the workplace. This learn-then-do approach reinforces the lessons and develops the knowledge and skill you need to begin an autonomous maintenance effort in your facility. **Participants will receive a Certificate of Completion at the end of the week.**

Created to teach the steps of Autonomous Maintenance and demonstrate a process for conducting AM kaizen events in your facility.

PROGRAM OBJECTIVES

In this session, participants will learn:

- The role of autonomous maintenance in a Total Productive Maintenance program.
- The value of team-based equipment care.
- The seven steps of Autonomous Maintenance and how to apply them to improve equipment and process reliability.
- To create Provisional Standards – the new equipment care standards.
- How to create One Point Lessons.
- How to make minor improvements to equipment design to make it easier to maintain.
- How identifying and correcting equipment abnormalities will make equipment safer.
- The yellow and blue tag system that perpetuates the process of abnormality identification, correction and low-cost equipment enhancement.
- To successfully transfer the “ownership” of the equipment to the production staff.
- How to build diagnostic and problem-solving skills.

Why do you need TPM?

TPM is the foundation of equipment/process reliability and reliability is the enabler to lean.

TPM/AM GOALS

- Zero accidents
- Zero unplanned downtime
- Zero speed losses
- Zero defects
- Minimum life cycle costs

TPM/AM RAISES APQ (AVAILABILITY, PERFORMANCE, QUALITY).

- 67% reduction in unplanned downtime
- 67% increase in equipment/process performance efficiency (that's free capacity!)
- 70% reduction in maintenance (fix/repair) costs

★★★★

CUSTOMER TESTIMONIAL...

Walt Miller, former Operations Excellence Coach with Cummins Inc. has been a long-time supporter of this program. Here's how he describes the benefits he and his teams have derived from attending...

"As we continue to struggle in manufacturing to be competitive against challengers from all over the globe it is critical for us as leaders to get every bit of value out of our equipment, our process, and our people.

I have been to six Maintenance Miracles. We have brought with us members of our team that we have identified as key to our implementation of our TPM program. This group of folks range from operators, maintenance support members, senior and mid-level managers, and engineers. With this kind of diversity of people it is critical that the program address each and every one of their needs in supporting and understanding TPM.

I believe your program does this. The combination of half the time in the classroom and half in actual hands-on exercise is key. My team comes away from the event inspired and knowledgeable on how to implement TPM back in the plant."

WHAT PAST ATTENDEES ARE SAYING...

"I've learned it is way cheaper to be proactive." **Jeff Pleinis** - Turning Center Lead - **Goodrich**

"In the 40 years of maintenance this was the one to attend. Excellent job by the instructor. The host plant was great." **John Akins** - Maintenance Team Manager - **Sun Products Corp.**

"Very good in applying principles of TPM and emulating the process in a manufacturing environment—hands on. Re-emphasizes the importance of the "human factor" in attaining reliability." **Tim Davis** - Engineering Manager—Continuous Improvement - **Ventura Foods**

MAINTENANCE MIRACLE **AGENDA**

HOST PLANT: SAUDER WOODWORKING - ARCHBOLD, OHIO

<p>7.15am</p> <p>8:00am-12:00pm</p> <p>12:00pm-12:45pm</p> <p>1:00pm-4:45pm</p> <p>5:00pm</p>	<p>TUESDAY MAY 19</p> <p>Sign-in at hotel, depart for Sauder Woodworking*</p> <p>Classroom Instruction: Day 1 activities include an overview of the TPM strategy and competitive advantage, TPM exercise and discussion on vision and "zero" goals, Autonomous Maintenance Step 1: Conducting the Initial Cleaning and Inspection, Equipment team assignments.</p> <p>Luncheon</p> <p>Shop-Floor Implementation – Autonomous Maintenance Step 1</p> <p>Depart Sauder for hotel.*</p>
<p>7.15am</p> <p>8:00am-12:00pm</p> <p>12:00pm-12:45pm</p> <p>1:00pm-4:45pm</p> <p>5:00pm</p>	<p>WEDNESDAY MAY 20</p> <p>Depart for Sauder Woodworking*</p> <p>Classroom Instruction: Day 2 activities include team progress reports, five why analysis, one-point lessons, Autonomous Maintenance Step 2: Eliminating Contamination and Inaccessible Areas, and Autonomous Maintenance Step 3: Establishing Provisional Standards.</p> <p>Luncheon</p> <p>Shop-Floor Implementation – continue Step 1, apply Steps 2 and 3.</p> <p>Depart Sauder for hotel.*</p>
<p>7.15am</p> <p>8:00am-12:00pm</p> <p>12:00pm-12:45pm</p> <p>1:00pm-5:00pm</p> <p>5:30pm-8:00pm</p> <p>8:00pm</p>	<p>THURSDAY MAY 21</p> <p>Depart for Sauder Woodworking*</p> <p>Classroom Instruction: Day 3 activities include team progress reports, introduction to Autonomous Maintenance Step 4: General Inspection Development and Training, Step 5: Conducting General Inspections, and Step 6: Workplace Management and Control and a discussion of Step 7: Advanced Improvement Activities.</p> <p>Luncheon</p> <p>Shop-Floor Implementation – continue Steps 1-3</p> <p>Dinner and Team Presentation Preparation</p> <p>Depart Sauder for hotel.*</p>
<p>7.15am</p> <p>8:00am-11:30am</p> <p>12:00pm</p>	<p>FRIDAY MAY 22</p> <p>Depart for Sauder Woodworking*</p> <p>Team Presentations</p> <p>Depart Sauder for hotel.*</p>

* Visit www.productivityinc.com for more information on hotel accommodations. Transportation to and from Sauder Woodworking provided by Productivity Inc.

ABOUT THE HOST



Sauder Woodworking Co. is North America's leading producer of ready-to-assemble (RTA) furniture and one of the top five residential furniture manufacturers in the U.S.

An authentic American original, 90% of Sauder® furniture is manufactured in Archbold, Ohio – right where they were founded in 1934. With some of the most technologically advanced equipment in the world, the facility features nearly 4 million square feet of space, employs about 2,000 workers and houses a wide variety of local and imported materials. Sauder is a privately held, third-generation, family run business with several subsidiaries. With its three-shift operation, the Sauder family of companies generates sales of over \$500 million annually.

Sauder started their lean journey in the early 2000's. Initially 5S and Kaizen improvement systems were developed and deployed. Value stream mapping and kaizen were used to establish focused factories and product flow (based on product features) and ultimately a manufacturing performance system evolved. TPM emerged from the performance system in the spring of 2013 and to-date Sauder has implemented TPM on 87 unique work centers. As a result, they have seen an increase in their Mean Time Between Failure metric that is used to measure equipment reliability. They have also seen improved quality, safer operations, a decrease in emergency breakdowns and a decrease in overall downtime minutes. A stronger relationship between operations and maintenance continues to be forged as they continue their lean journey.

To learn more about Sauder Woodworking Company, visit www.sauder.com.

Consultants and competitors of Sauder Woodworking are not eligible to attend.



Productivity Inc. is a leading consulting and training firm that helps organizations build new capabilities, save money, and grow. We focus on three progressive strategies: Operational Excellence, Innovation Systems and Leadership Development.

Working together, these strategies provide the means to continually refresh a company's value proposition while making the organizational changes needed for daily improvement and sustainable growth.

We pioneered the implementation of Lean and TPM methodologies in manufacturing in the late 1970s. Since then, we have extended these methodologies across a wide range of industries, including healthcare, finance, and other service industries. Our time-tested Lean Management System - **motion™ The Management System by Productivity** - provides a uniquely comprehensive approach to implementing lean across an entire enterprise.

Our Innovation System, developed from years of research into proven, leading-edge practices for innovation management and top-line growth, helps organizations in both service and manufacturing industries to develop an organization-wide capability to innovate. More than simply a lean consulting firm, Productivity Inc. can provide a variety of methodologies to keep your business in motion™.

Learn more at www.productivityinc.com



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motion™ – The Management System by Productivity

Imagine...

- Your customers are your best supporters,
- employees at all levels know their customers and actively solve problems to better serve them,
- leaders team-up to prepare their long-term plans and translate them into annual objectives and work place initiatives,
- leaders and managers work closely together to set direction and provide sense of purpose,
- continuous improvement and innovation in action,
- an organization of networked teams fully integrated and enabled...

What you are imagining is an organization in motion™, and we can help you get there!

[Live the experience of motion™, the Management System by Productivity](#)



The Innovation System™ by Productivity

In a rapidly changing environment, current value propositions are not enough to ensure your organization's long-term survival. You'll need reliable pathways for creating new value. In our experience we've found that the traditional value creation functions are not structured for this type of innovation effort.

This effort – the development of an organization-wide capability to reliably, repeatably and predictably create new value – requires the building of an Innovation System to provide the means to explore outside the confines of your existing business model.

Productivity has developed a systemic process for creating an organization-wide Innovation capability – developing your own Innovation System™.

[Live the experience of The Innovation System™ by Productivity](#)

On-Site Training and Skill Development for Manufacturing and Service Industries

Actionable, Proven, Results-Oriented...

As stand-alone training sessions or combined into a multi-session curriculum, our proven training programs will provide the knowledge transfer and skill you need to participate and add value to your organization's Operational Excellence effort.

All our on-site training programs are taught using a Learn-by-Doing approach that translates theory into action providing your organization with an immediate return.

We can work with you to collaboratively build a curriculum that fits your specific training needs, allowing you to achieve short-term results while developing long-term organizational capabilities.

We have provided customized training curricula to organizations throughout the Global 1000 including: adidas AG, BNP Paribas, The Emerson Electric Company, Kaiser Aluminum Company, Gannett NJ Media Group, Oldcastle BuildingEnvelope, Suncor Energy, and Whirlpool Corporation. We would welcome the opportunity to collaboratively develop a curriculum that fits your specific training needs.

LEADERSHIP DEVELOPMENT EXPERIENCE

Training and coaching for leaders and managers to plan, deploy, lead and support a sustainable, company-wide, improvement and growth program.



LEAN IN SERVICES

Developed for all service environments, learn how the application of Lean techniques improves customer service and develops strategic competitive advantage.



TPM AND LEAN

Learn the TPM Pillars and Lean techniques necessary to implement a TPM and Operational Excellence program in your facility..



[All Our On-site Training Programs](#)

We Educate – We Certify

In the change process, everyone needs to understand how they can contribute. This understanding begins with education.

Get everyone speaking (and practicing) the same "language"! That's what our educational programs are designed to do. In the 1980's, we were the first organization to introduce Lean educational workshops and learn-by-doing kaizen events. Over the years, we have continuously upgraded and improved our training curricula.

Productivity has partnered with **The Ohio State University's Fisher College of Business** to offer Lean Certifications and Certificates.

LEAN MANAGER CERTIFICATION - LMAC - COLUMBUS, OH

Designed for leaders and managers seeking the knowledge and confidence necessary to drive Lean principles throughout their organizations.



LEAN MANAGEMENT CERTIFICATION FOR SERVICES – LMAC SERVICE - COLUMBUS, OH

Designed for leaders and managers seeking the knowledge and confidence necessary to drive Lean principles throughout their organizations.



[All Our Public Educational Events](#)

AEROSPACE AND ELECTRONICS / AT&T INC. / THE BOEING COMPANY / INTEL CORPORATION / JEPPESEN / LITTELFUSE, INC. / MEGGITT POLYMERS AND COMPOSITES / PRATT & WHITNEY / UNITED TECHNOLOGY CORPORATION / WEIR GROUP / **AUTOMOTIVE** / AUTOLIV INC. / CUMMINS CORPORATION / FORD MOTOR COMPANY / HONDA OF AMERICA / KAMTEC, INC. / LEAR CORPORATION / MIBA BEARINGS LLC / TENNECO, INC. / **BANKING/FINANCE, INSURANCE AND SERVICES** / ARVAL / BNP PARIBAS / COUNTRY FINANCIAL INSURANCE COMPANY / GOODYEAR/DUNLOP SERVICES / GRANGE INSURANCE / GROUPAMA / GROUPE CAISSE D'EPARGNE / KEYBANK / NATIONWIDE FINANCIAL SERVICES, INC. / SPB / **CAPITAL GOODS** / AEROQUIP CORP. / A.O. SMITH CORP. / BUSCH MANUFACTURING / CRANE CURRENCY/DEERE & COMPANY/EMERSON ELECTRIC CO./JOHNSON CONTROLS/METTLER TOLEDO LLC/POCLAIN HYDRAULICS/ SAUDER WOODWORKING COMPANY / SNAP-ON INC. / STANLEY BLACK & DECKER INC. / UNION TANK CAR COMPANY / **CHEMICALS** / AIR PRODUCTS AND CHEMICALS, INC. / ARKEMA / CECA / CYPLUS IDESA / KMG CHEMICALS, INC. / SOLVAY / **CONSUMER GOODS** / ACUSHNET COMPANY / ADIDAS GROUP / BERRY GLOBAL GROUP INC. / D&W FINE PAK / DURACELL INC. / GANNETT NJ MEDIA GROUP / HENKEL CORPORATION / KIMBERLY-CLARK CORPORATION / LEK INC. / MANA PRODUCTS / PING GOLF / PIRELLI COMPANY / PLASTIPAK HOLDINGS INC. / PROCTER & GAMBLE / QUAD/GRAPHICS, INC. / RECKITT BENCKISER GROUP / SHERWIN WILLIAMS / TEXOPS / UNILEVER / W.L. GORE / **ENGINEERING AND CONSTRUCTION** / AMERICAN WOODMARK CORP. / ATLAS ROOFING / BRAZEWAY, INC. / CERTAINTEED CORPORATION / JACOBS ENGINEERING GROUP INC. / JELD-WEN, INC WINDOWS & DOORS / MI WINDOWS AND DOORS / OLDCASTLE BUILDINGENVELOPE / OWENS CORNING / **FOOD AND BEVERAGES** / ADVANCED PIERRE FOODS / ANHEUSER-BUSCH / CALIFORNIA NATURAL PRODUCTS / THE COCA COLA COMPANY / E. & J. GALLO WINERY / FLORDIA CRYSTALS CORPORATION / GENERAL MILLS, INC. / GLANBIA NUTRITIONALS / GROUPE AOSTE S.A. / THE HERSHEY COMPANY / INGREDION INC. / MARS PETCARE / MEAD JOHNSON COMPANY / MILLERCOORS / SCHWAN'S COMPANY / T. MARZETTI COMPANY / URSCHEL LABORATORIES COMPANY / WONDERFUL CITRUS / **HEALTHCARE SERVICES, EQUIPMENT AND PHARMACEUTICALS** / BOSTON SCIENTIFIC CORP. / BROOKDALE SENIOR LIVING / CEVA SANTE ANIMALE / ETHYPHARM / GENENTECH, INC. / HOPITAUX UNIVERSITAIRES DE GENEVE / IPSEN GROUP / LEICA BIOSYSTEMS COMPANY / MAYO CLINIC / MEDTRONIC / MERCK SANTE / MERIAL / OHIO COLLEGES OF MEDICINE / OSU WEXNER MEDICAL CENTER / PFIZER – FAREVA / VIRBAC / WOOSTER COMMUNITY HOSPITAL / **METALS AND MINING** / ALCOA CORPORATION / ALLEGHENY TECHNOLOGIES / BARRICK GOLD CORPORATION / GBC METALS, LLC / HIRSCHVOGEL INC. / IMERYS / KAISER ALUMINUM CORP. / SEARLES CORPORATION / **MUNICIPALITIES AND GOVERNMENT** / CITY OF ALEXANDRIA, VA / FEDERAL AVIATION ADMINISTRATION / NATIONAL SECURITY AGENCY / OHIO DEPARTMENT OF DEVELOPMENTAL DISABILITIES / ORANGE COUNTY SANITATION DISTRICT / UNITED STATES DEPARTMENT OF LABOR / UNITED STATES MINT / **OIL AND GAS** / BP AMOCO / EXXONMOBIL CORP. / MARATHON OIL CORP. / SUNCOR ENERGY / SUNOCO...

**NORTH AMERICA & ASIA
PRODUCTIVITY INC.**

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Register online: www.productivityinc.com
Email: lean@productivityinc.com

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**#9 White Paper
What's Missing From
Your Lean Initiative?**

TPM's integral role, with 5 takeaways to guide your strategy. *Most business owners and general managers recognize just how critically important proper equipment maintenance is, particularly in an asset-oriented work environment.*

→ Read more at www.productivityinc.com



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A 3 ½ DAY CERTIFICATE PROGRAM

MAINTENANCE MIRACLE AN AUTONOMOUS MAINTENANCE KAIZEN EVENT

Please print. Copy this form for additional registrations.

NAME	TITLE	COMPANY
ADDRESS		
CITY	STATE	ZIP
PHONE	FAX	EMAIL

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: \$2150.00

Groups: 3-5 people from same site take \$50 off each registration. For larger groups please call for special rates 1-800-966-5423 or (203) 225-0451

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: Prior to the start of the program, 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 30 days prior to the event. Cancellations received within 30 days of the start of the program are subject to the full registration fee and this money will be held on account for up to one year for use at a future workshop or conference. Cancellations received within 10 business days of the start of a program will be assessed a fee equal to 20% of the registration fee; the remainder of the fee 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. No refunds or credits will be issued once a program is underway.

On rare occasions circumstances may make it necessary to cancel or postpone an event. We encourage attendees to book refundable/reusable airline tickets. We are not responsible for incidental costs incurred by registrants. Any individual attending this program hereby acknowledges and agrees that any photographs or videos taken during the event may be used in marketing efforts (web/print) including, but not limited to news and promotion without compensation to the participant. Consultants and competitors of Sauder Woodworking are not eligible to attend.

ACCOMMODATIONS: HAMPTON INN BY HILTON, 1037 HOTEL DRIVE, DEFIANCE, OH, 43512, (419) 784-1515

A block of rooms is being held for Productivity Inc. Maintenance Miracle participants at the Hampton Inn in Defiance, Ohio. Maintenance Miracle attendees receive a reduced rate of \$129 per night, single or double occupancy. Reservations must be made by May 4th to receive this special rate. The Hampton Inn is a 50 minute drive from the Toledo, OH airport and one hour drive from the Ft. Wayne, IN airport. Productivity Inc. will provide daily transportation between the Hampton Inn and Sauder Woodworking site.

REGISTER NOW

REGISTER ON LINE NOW

Online
www.productivityinc.com
Call us
1-800-966-5423 or 203-225-0451

Printed Registration form
Fax: 1-203-225-0771
Mail: Productivity Inc.
375 Bridgeport Avenue, 3rd floor, Shelton, CT 06484

[Click and Go to Registration form on line.](#)