



GO LEAN FOR MAINTENANCE EXCELLENCE

Henry Ford, the automobile-manufacturing pioneer focused on eliminating waste on his automotive assembly lines because he was well aware of the cost associated with waste. Wasted material, wasted motion, and wasted time drastically affected bottom-line profitability.

Many maintenance operations focus on avoiding equipment malfunction and fixing things that have failed to function. Most maintenance departments do not consider their activities in terms of eliminating waste. The move from a reactive to a proactive maintenance strategy is made easier when a preliminary focus is applied to eliminating waste from the overall maintenance process.

On-Site Training Opportunities

Put TMEII's expertise in maintenance and reliability training to work in your organization

TMEII is a results-oriented resource and provider of maintenance and reliability initiatives. You can benefit from our experience of presenting hundreds of on-site training and consulting sessions for large and small companies world-wide.

Contact Pete Peters at 919-270-1173 or Pete@PRIDE-in-Maintenance.com for more information!



100% Guarantee

A complete refund is provided if you cannot achieve a 10 to 1 return on investment from this training.

Ralph W. Peters
President, TMEII

12 Key TrueWorkShop™ Benefits

1. Involve maintenance in a Continuous Reliability Improvement strategy
2. Apply lean principles to maintenance processes for profit & customer service
3. Understand the business impact of lean practices on maintenance and operations
4. Implement measurement of results when Going Lean for Maintenance Excellence
5. Increase and measure productivity of all six maintenance resources
6. Eliminate the 12 wastes of maintenance
7. Achieve gained value plus direct cost reductions
8. Implement value-added maintenance tasks
9. Apply flow management techniques to maintenance practices
10. Benchmark lean results with today's four top techniques from TMEII
11. Develop greater PRIDE-in-Maintenance at the shop level
12. Achieve greater Top Leaders' appreciation for mission-essential maintenance

TMEII CONTACTS:

Pete at 919-270-1173 (Pete@PRIDE-in-Maintenance.com) or Anne at 919-896-5368 (Anne@PRIDE-in-Maintenance.com) to coordinate a custom in-house session.

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Why This LEAN TrueWorkShop™

We know effective maintenance storerooms and parts/Go LEAN FOR MAINTENANCE EXCELLENCE is about applying a proactive maintenance process that will help you achieve planned and scheduled maintenance activities via total productive maintenance (TPM) practices. You will learn how to use maintenance strategies developed through the application of reliability centered maintenance (RCM) decision logic and practiced by empowered (self-directed) action teams. You will see how the 5S process and weekly Continuous Reliability Improvement (CRI) events can help achieve greater profit customer service and PRIDE-in-Maintenance. You will learn how to make operator based maintenance really work together with multi-skilled, maintenance technician-performed maintenance. Applying Lean can help improve the work order system and use of existing computer managed maintenance system (CMMS).

You will learn that crafts supported by a distributed, lean maintenance/MRO storeroom that provides parts and materials on a just-in-time (JIT) basis will improve physical asset and people productivity.

And you will learn how Continuous Reliability Improvement supported by a maintenance and reliability engineering groups performing root cause failure analysis (RCFA), failed part analysis, maintenance procedure effectiveness analysis, predictive maintenance (PdM) analysis, and trending and analysis of condition monitoring results contributes directly to bottom-line profits. All of the above is lean maintenance in a nutshell.

TrueWorkShop™ Training Benefits

Attending this event will provide your organization with TrueWorkShop™ results for applying Continuous Reliability Improvement with today's most practical LEAN practices for maintenance. Attendees will bring back the tools and knowledge to begin or enhance continuous improvement in your organization. They will have greater understanding as to Lean applied to other best practices can be the cornerstone for a broader approach to maintenance improvement within their organizations.

Take An Important First Step:

This training process is for application and not theory and is for both the public and private sector in plant maintenance and pure facilities maintenance. Remember, we guarantee this TrueWorkShop™ will help provide you with the important steps to improve the maintenance process and the business side of the maintenance in your operation.

GO LEAN FOR MAINTENANCE EXCELLENCE is a 3-day professional development event for maintenance leaders, planners, coordinators and schedulers. It is for Maintenance Leaders at all levels needing in-depth training for this important maintenance best practice area. This workshop is tailored for manufacturing plant maintenance, pure facilities maintenance, healthcare operations, as well as fleet management and golf course maintenance operations. It's also for top leaders trying to maximize the value of mission-essential maintenance.

This TrueWorkShop™ will also briefly cover two more strategies that go way beyond PdM, Reliability-Centered Maintenance (RCM), and Risk-Based Maintenance (RBM). This practical TrueWorkShop™ will:

- Present in detail the key elements of PM and PdM maintenance approaches plus RCM and RBM
- Explain their positive impacts on equipment reliability, productivity, and cost of maintenance
- Describe how to develop and install a tailor-made P/PdM program to obtain these results

It is an important "How to Do it Guide" for implementing, measuring results and successfully applying today's best practices for Preventive (PM) and Predictive Maintenance (PdM). This TrueWorkShop™ will help ensure you have other basic practices in place for a profit and customer-centered operation.

Even in Good Economic Times Maintenance is Forever!

Who Should Attend

- Facility Managers
- Future Maintenance Leaders
- Coordinators
- Maintenance Engineers
- Plant Engineers
- Maintenance Managers
- Maintenance Supervisors
- Maintenance Leaders
- Maintenance Planners
- Maintenance Foremen
- MRO Purchasing and Procurement Staff
- Plant Directors
- Storeroom Managers

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TrueWorkShop™ Agenda

On-site TrueWorkShops™ are customized to meet your specific goals and objectives. Below is a sample outline which can be modified as needed to ensure the results you are looking for.

Day One:

- Introductions and Workshop Objectives
- Continuous Reliability Improvement of All Maintenance Resources
- Today's Maintenance Challenges-Planning is Critical
- Selling the Benefits of Lean to:
 - Management
 - Maintenance / Operations
 - Purchasing and the Storeroom
- Lean Basics & History of Lean Manufacturing
- Lean Production & Lean Maintenance
 - Flow and Value
 - 12 Forms of Waste
 - 10 Principles for Lean Change
 - 10 Tools for Achieving Lean
- Typical Lean Steps & Spaghetti Chart
- Cell Layout Configured for Product Flow
- Batch Production vs. Lean Productions
- Lean Advantages & Batch Disadvantages
- Flow Simulation & Hands-On Exercise
- Applying Lean to the Maintenance/MRP Storeroom
- How Planning and Scheduling is a Key Lean Practice to Improve Craft Productivity

Day Two

- Organizing and Managing Going to LEAN Practices
- Who is in charge of LEAN in Maintenance: Key Roles
- Lean Job Description Examples
- Tools for LEAN Improvement
- Key Principles of Waste Elimination
- Identifying Value
- Current State Analysis Tools
 - Product Quality Analysis
 - Task Time: Customer Demand
 - Process Mapping / Spaghetti Charts
- Current State Analysis Tools
 - Forms of Waste
 - Principles for Lean Change
 - Tools for Achieving Lean
 - 5S
 - Visual Controls
 - Cell Design / Flow
 - Pull Systems
 - Quick Change
 - Total Productive Maintenance
 - Mistake Proofing
- Maintenance Best Practices Needed for LEAN:
 - The Scoreboard for Maintenance Excellence
 - The CMMS Benchmarking System
 - The Maintenance Excellence Index

Day Two Cont'd:

- Determining PM frequencies and how to schedule PM
- Defining True Maintenance Requirements to Management
- Maintenance Best Practices Needed for LEAN: r
 - The Scoreboard for Maintenance Excellence
 - The CMMS Benchmarking System
 - The Maintenance Excellence Index
 - The ACT Team Process
- Determining PM frequencies and how to schedule PM
- Defining True Maintenance Requirements to Management

Day Three:

- Going LEAN for Maintenance Excellence is Improving Key Maintenance Practices
- Preventive / Predictive Maintenance
- Planning and Scheduling
- Storeroom Control
- Energy Management
- Security and Access Control
- Craft Skills Development
- CMMS: The Maintenance Business System
- Continuous Reliability Improvement
- LEAN Application to Maintenance Techniques
- How Lean Improves the Planning Process and Scheduling Process
- Lean Practices within the Maintenance Technical Library
- Materials Management and Purchasing Support to Proactive, Planned LEAN Maintenance
- The ACE Team Process: **A Consensus of Experts to Support LEAN**
 - Using Craft Experts for LEAN Teams
 - How the ACE Team Can Improve Repair Methods, Safety and Quality
 - Chartering & Developing Your ACE Team
- LEAN Practices for Successful Scheduling & Backlog Management
- Measuring Bottom-Line Results for LEAN Investments
- Measuring the Performance of the Overall – Maintenance Operations
 - Selecting Key Performance Metrics
 - Developing a Maintenance Excellence Index
- Dealing with Probability and Risk
- Brief Intro to the Earned Value Analysis Technique
- Attendee Presentations of "Where Do We Go From Here with LEAN?"
- Conclusion and final review

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Your Instructor and Coach



Ralph W. (Pete) Peters the Founder/President of The Maintenance Excellence Institute International is your primary instructor. His experience of over 40 years has included being a manufacturing plant manager at two sites; director of facilities management. He has had extensive maintenance experience within the US Army beginning in Vietnam (1970) and with the US Army Corps of Engineers building what is now called, the National Highway. He consults and provides maintenance best practice training in over 30 countries, written maintenance chapters in four books as well as a book on *Maximizing the Value of Your CMMS*. In 2006, he wrote and published *Maintenance Benchmarking & Best Practices* for McGraw-Hill's professional book division. In 2015 he completed *Reliable Maintenance Planning, Estimating and Scheduling* for Elsevier's Gulf Publishing Division. Pete's positive approach and his experience from consulting, allows him to be an excellent coach for today's top leaders, maintenance leaders and craft leaders. His worldwide **PRIDE-in-Maintenance** initiative will be highlighted in his next book with key topics from this universal book included in all of his worldwide **TrueWorkShops™**.

Training is Not Over When it's Over!

Your company will benefit most if you attend with a 3 or 4 person company team which will work together. You return to your organization with the new knowledge and team support for PM and PdM along with your new plans for reliability and maintenance excellence. We invite your Top Leaders, Maintenance Leaders and Craft Leaders to attend as a team. The workshop **"is definitely not over when it's over."** **Yogi Berra once said, "It ain't over until it's over!"**

Your session is definitely not over when it's over! Following completion of this **TrueWorkShop™** a personalized follow-up will be scheduled for each attending organization. Our one-on-one coaching is to help you apply the key topics and to implement your plan of action. Implementation is your key to results and we want to help you make that happen!

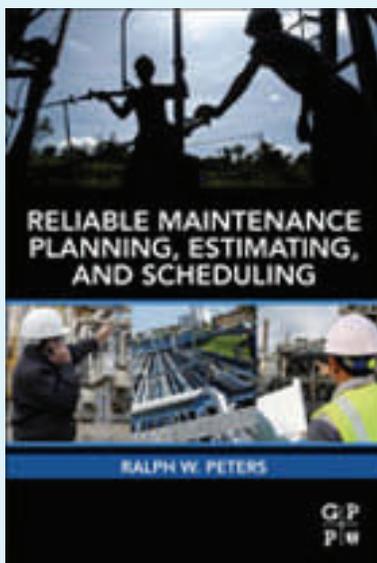
3 Additional TrueWorkShop™ Deliverables

This **TrueWorkShop™** provides these important additional deliverables in easy to use Excel format.

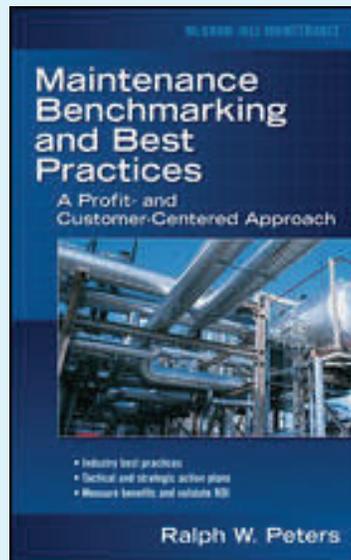
1. A **SCOREBOARD FOR MAINTENANCE EXCELLENCE** that can be used by each attendee's operation for benchmarking against today's best practices.
2. The **CMMS BENCHMARKING SYSTEM** is to support gaining maximum value from an existing CMMS & to define improvement needs and functionality gaps.
3. The **MAINTENANCE EXCELLENCE INDEX** is a powerful, performance measurement process to validate & to benchmark your monthly results at the shop level.

Extensive Knowledge base of References to Take Home:

This workshop is based on Pete's two books:



Reliable Maintenance Planning,



Maintenance Benchmarking and

TMEII provides more electronic references for all TrueWorkShops™ than any other series of courses now being offered from around the world.

Each attendee will receive e-book copies of these two major books plus many, many more valuable topic references on CD. The electronic versions are included to allow easy application and duplication of all course materials. Attendees receive all PowerPoint's used and "one of the largest Maintenance, Reliability and MRO Materials Management Glossary" currently available.

TMEII believes in providing each attendee an extensive knowledge base to support professional development well beyond actual class time.

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