



ADVANCED MAINTENANCE LEADERSHIP IN RELIABILITY CENTERED MAINTENANCE (RCM)

**Effective Leadership Will Improve Overall Craft Effectiveness!
Are You a Manager or a Leader...or Maybe Both?**

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

Top 9 Learning Objectives

1. **Enhance** essential Maintenance Leadership skills to effectively perform change management & cultivate a reliability excellence culture
2. **Improve** craft productivity and Overall Craft Effectiveness (OCE) through better leadership, communication & people management skills
3. **Ensure** successful adoption and implementation of asset management improvements with absolute compliance from artisans, technicians & contractors
4. **Understand** important measurement techniques and framework to define results
5. **Apply** key elements of Reliability Centered Maintenance (RCM)
6. **Systematically Analyze** and conduct Failure Mode, Effect and Criticality Analysis (FMECA) to effectively identify equipment criticality of key assets, prioritize tasks & minimize wastage
7. **Utilize** problem-solving techniques of Root Cause Analysis (RCA) for Root Cause Failure Analysis (RCFA) to eliminate repeated failures and decrease failure frequency
8. **Ensure** management support by making optimal and economically justifiable suggestions based on Life Cycle Costing and Replacement Analysis
9. **Effectively Benchmark** performance against world class best practices and transit from PAS 55:2008 to ISO55000

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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Key Benefits of Attending this TrueWorkShop™

It is extremely important for today's maintenance leader to operate with a strategy and attitude that maintenance is indeed an internal business. Maintenance Leaders need to understand the key requirements for profit & customer centered maintenance, not only to satisfy operations and higher management, but also to minimize costs through effective management of crafts and contractors. Fortunately for such a demanding position, there are numerous fundamental principles and proven practices that can provide as a foundation for implementation and improvement.

This TrueWorkShop™ Answers these Important Questions and Much More

This is a TrueWorkShop™ to help maintenance leaders at all levels. It is for direct supervisors of contractor staff and for those who manage contract maintenance. Pete Peters, your instructor/coach, has seen the good, bad and really ugly side of maintenance practices around the world. He has seen and used leadership best practices from his plant management and US Army experience.

Valuable Lessons from the Real World:

You must develop leadership skills from experience down in the maintenance trenches. This TrueWorkShop™ is another one developed as result of consulting projects. Your instructor has seen the need for leadership training and the PRIDE-in-Maintenance spirit in many operations. Unfortunately, more and more maintenance managers are becoming *victims of outsourcing*. There is a desperate need for continuous leadership training with shop floor application. This TrueWorkShop™ is about building leadership skills and creating a strong team of crafts people with greater PRIDE-in-Maintenance, more accountable for reliability, productivity and customer-service.

Who Should Attend

VPs, Directors, Division Heads, Managers, Superintendents, Specialists, Leaders, Supervisors, Foremen; Planners, Technicians and Engineers from the following departments:

- Maintenance / Engineering
- Shutdown & Turnaround
- Reliability
- Preventive / Predictive Maintenance
- Conditioning Monitoring
- Rotating / Mechanical
- Physical Asset / Asset Integrity
- Operations / Facility Management
- Plant / Production
- Process / Inspection

Benefits and Value

We personally guarantee this TrueWorkShop™! We will help bring to you the firepower and knowledge you need to reinforce your current maintenance needs! We will help you be the true maintenance leader of your craft work force or to be a better leader of contractors. We can personally help you make a difference in the total operations success of your organization by attending this event! Top Leaders must understand the consequences of gambling with contractor maintenance costs. True maintenance leaders must provide a clear message to them.

This Training is Not Over When it's Over!

Your company will benefit most if you attend as part of a 3-4 person company team. Your team will work together and return to your organization as a team with new knowledge and team support for your new plans. You will be able to measure the value of true leadership and improved craft productivity.

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 event, there is a personalized follow-up scheduled for each organization attending. Our one-on-one coaching is to help you apply the key topics from the work shop and to implement your plan of action. We want to help you implement the plan of action you develop as part of the work shop. Successful implementation is your key to results.

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This 4-Day TrueWorkShop™ will Cover

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:

Advanced Maintenance Leadership in Reliability Centered Maintenance (RCM)

- Introductions
- Practical Exercise: Review of participants Top 5 Areas for Improvement

Understanding and Improving Craft Productivity (OCE) and Overall Craft Effectiveness (OCE)

- Practical Exercise: What is gained value of your possible gains in Craft Productivity?

Use of Leadership Driven, Self-Managed Teams

- Advantages
- Best Practices for Successful Cross-Functional Team Building
- Practical Exercise:
 - Break into teams and develop your Team Charter and Team Leader
- Attendees will experience a cross-functional team scenario and prepare for a short presentation at the end of day three

Leadership and the Maintenance Culture

- Reliability and maintenance Excellence Model & Leadership
- The vision-mission-values
- Difference between Management and Leadership
- The benefits of a reliability and maintenance excellence culture
- Practical Exercise: What are your main obstacles to maintenance process improvement?

Overview: New International Standards for Asset Management Strategy Development

- PAS 55:2008 and ISO55000
- The Scorecard for Maintenance Excellence: Going beyond current PAS 55:2008 and Preparing for ISO55000

Day Two:

Benchmarking

- Measuring efficiency and implementation process of new/existing programs
- Practical Exercise:
 - Review of attendee's Scorecard for Maintenance Excellence results
 - List 10 characteristics of a reliability centered organization
 - Is your organization doing any of them?

Day Two (cont'd):

Leadership Elements: Developing Individuals in Maintenance

- Building and leading an effective maintenance team
- Empowering the maintenance leader
- Developing your Maintenance Excellence Index
- Benchmarking: Using The Scoreboard for Maintenance Excellence to define "where you are now"
- Setting Expectations and Standards
- Coaching & Feedback: How to be a Winning Coach
- Three Types of Motivation: Fear, Incentive & Attitude
- How to improve communication
- Craft skills development of your People Assets

Leadership Strategies for Reliability and Maintenance Excellence

- Change management in maintenance
- Effectively dealing with resistance to change
- Facilitating a cultural change
- Mapping the improvement journey
- Problem solving and troubleshooting: Root Cause Analysis (RCA)

Motivating Artisans to Carry Out Relevant Job Orders

- Developing PRIDE-in-Maintenance
- Work control and good scheduling
- Accurate data collection via the work order
- Why the work order is so important
- Ensure that critical task specifications are understood and done to high standards

Preventive, Predictive Maintenance Condition Monitoring Effective Framework in Improving or Starting a New Program

- The 6-step installation program
 - Phase 1 - Management Awareness
 - Phase 2 - Management Commitment
 - Phase 3 - Pilot Program Design
 - Phase 4 - Evaluate Pilot Program
 - Phase 5 - Expand and Operate the Total Program
 - Phase 6 - Continuous Improvement and Evaluation of Total Program

Keeping an Effective and Useful Equipment History; Going Wireless with Continuous Condition Monitoring

- Case Study: Predictive Systems Engineering

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Day Three:

Planning & Scheduling of Major Maintenance Work Orders and Shutdowns

- Planning & Scheduling for Proactive Maintenance
- Effective Scheduling Methods and Work Execution
- Work Breakdown Structure
- Critical Path Method (CPM)
- Resource Scheduling and Leveling

Controlling and Monitoring Maintenance Work

- Measuring Performance
- Sources of Data
- Backlog Indices
- Schedule Compliance
- PM and Emergency Indices
- Productivity Indicators

Maximizing and Managing Contractors

- Outsourcing decision making
- Key criterion for contractor selection
- Building reliability requirements and quality standards into engineering contracts and procurement document
- Improving contractor performance: Ten Key Steps

Day Four:

Equipment Failure Patterns

- Distinguishing between repairable and non-repairable equipment
- Types of equipment failure
- Review why equipment fails
- Areas of the Bath-tub curve
- Actual equipment failure patterns
- Actions to minimize failure effect

Reliability Centered Maintenance (RCM)

- Determining Criticality of Equipment
- Principles of RCM and Key Elements of RCM to Define Equipment Strategies
- Equipment Functions and Performance Standards
- Functional Failure
- Failure Modes
- Failure Effects
- Consequences of Failure
- Considerations for Risk and Risk Based Maintenance within RCM
- Operating Risk Reduction
- Practical Exercise: Gas Turbine Exhaust Stack (FMECA)

Root Cause Failure Analysis (RCFM)

- Structured problem solving and RCFA
- Cause analysis
- Two-track approach
- Failure types
- The three level of cause
- Collecting failure data
- Parts and position
- Describing the process
- Data analysis
- Human root causes
- Solution to human root cause
- Stewardship of RCFA results
- Case Study: Conducting an Effective RCFA: Hydraulic Systems

Investing in Predictive Maintenance Technology for Condition Monitoring

- Review of today's available predictive maintenance technologies
- Up-to-date information on low-cost, high-technology predictive maintenance techniques

Gaining Commitment from Top Management

- How to communicate with top management to get them to adopt your suggestions
- How to back decisions with sound economic justification

Life Cycle Costing of Equipment

- Replacement Policy to Support the Capital Budgeting Process
- Accounting Rate of Return (ARR)
- Payback Method
- Net Present Value Method (NPV)
- Case Study: Reliability Study for Optimum Boiler Operations Strategy

Benchmarking and Performance Indicators

- Developing your Reliable Maintenance Excellence Index
- Workload Performance Indicators
- Planning Performance Indicators
- Effectiveness of Performance Indicators
- Cost of Performance Indicators
- Management Reports

Final Exercise: Presentations of Team's recommended Plan of Action for improving Maintenance & Reliability is their organization

Even in Good Economic Times Maintenance is Forever!

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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™**.

Understanding of the True Value of Maintenance:

Regardless of the type of operation, Top Leaders must understand the "true value of maintenance."

Maintenance Leaders must develop and nurture an organizational culture that clearly supports long-term continuous maintenance improvement.

[Training for Maintenance Excellence](#) supports our belief in the basics and building upon basic best practices as the foundation for advanced maintenance practices that achieve reliability and maintenance excellence.

Take An Important First Step:

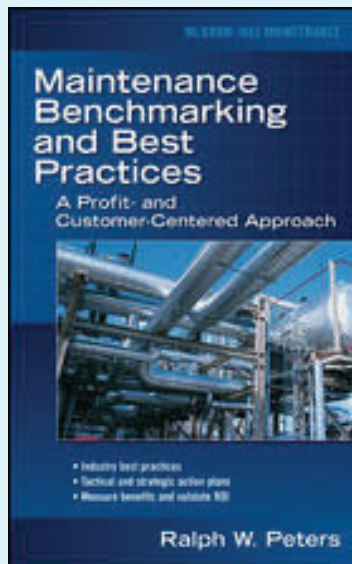
This training process, like our book, is for the public and private sector. It will help provide important steps toward improving the maintenance process and the business of maintenance in your operation.

Extensive Knowledge base of References to Take Home:

This workshop is based on Pete's two books:



Reliable Maintenance Planning, Estimating and Scheduling



Maintenance Benchmarking and Best Practices

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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