



Maintenance Planning, Scheduling & Work Control

(Certified Maintenance Planner and Scheduler)

You Can Plan for Reliability and Maintenance Excellence

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

If you want to achieve reliability and maintenance excellence, this **TrueWorkShop™** is a must attend. You will learn about implementing the best practices you need for effective maintenance planning, estimating and scheduling. You will bring back the tools and knowledge to begin or enhance a planning, estimating and scheduling function in your organization. This includes:

- A hands-on, working knowledge of today's best maintenance planning, estimating and scheduling techniques
- A working knowledge of the tools and techniques for estimating using the ACE Team Benchmarking Process
- A greater understanding how planning and scheduling can be the cornerstone for a broader approach to maintenance improvement within your organization

In addition, we will help ensure you have other best practices in place for becoming a profit-centered operation. They will be tailored for both plant and facilities maintenance operations participants' that want to achieve measurable bottom-line results.

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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The Maintenance Excellence Institute International believes the [principles](#) and [practices](#) covered can be taken back and put into practices for a true return on investment for the training. We provide:

- Extensive practical exercises on key topics
- Extensive idea sharing and instructor's case studies from over 300 plant and facility sites.
- Each attendee with today's most comprehensive benchmarking tool; [The Scoreboard for Maintenance Excellence](#) to complete prior to start date. Results will be strategic, tactical and operational. "Do It Now" plans of action for the 27 best practice topics.
- A clear understanding of today's best practices is so important to successful implementation.

We have helped very large organizations develop a client specific [Scoreboard for Maintenance Excellence](#). We have found that best practice training is necessary so an organization truly understands the full potential of our assessment results.

Still not sure if this program is for you?

If your answer is **YES** to these following important questions then you must attend.

- If you could receive a 5-to-1 return on investment, would you invest?
- Could you use a 10% to 30% increase in wrench time; Craft Utilization?
- Are you a takeover target for contract maintenance that is more productive?

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](#) - For gaining maximum value from an existing CMMS.
3. The [RELIABILITY & MAINTENANCE EXCELLENCE INDEX](#) -A powerful, performance measurement process to validate shop level results.
4. [The ACE Team Process](#) - Today's most progressive and easy to use methodology for defining reliable planning times and quality repair methods. A complete *how to* procedure's manual for implementing this process of estimating.

**Even in Good Economic Times
Maintenance is Forever!**

Who Should Attend:

- Storeroom Supervisors / Managers / Staff
- Maintenance Planners / Maintenance Schedulers
- Maintenance Supervisors / Maintenance Foremen
- Maintenance Coordinators
- Plant Directors / Plant Engineers
- Facility Managers / Property Managers
- MRO Purchasing Procurement Staff
- Maintenance Managers

Gain an 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 is for application and not theory, and like the book, it is for both the public and private sector. It is for all types of maintenance operations: plant, facilities, hospitals and fleet 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 storeroom in your operation.

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TrueWorkShop™ Topics

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: Modern Maintenance Management Practices as a Business Strategy

Maintenance Strategy as Defined in PAS 55: 2008 from British Standards Institute

- Maintenance in the Business Process for Profit Optimization
- Evolution in Maintenance Management Practices
- The Contribution of Maintenance to the Achievement of the Business Objectives
- Business, Operations and Maintenance Key Performance Areas
- The Maintenance Objective and the Business of Maintenance
- Planner/Schedulers' New Role for Maintenance and Reliability Excellence
- Roles and Accountability of Key Staff

Preventive, Predictive and Condition-Based Maintenance (PM-PdM-CBM)

- Understanding PM-PdM-CBM Areas of Application
- Integrating Risk Based Maintenance (RBM) into Work on Critical Assets
- Implementing a PM-PdM-CBM Program
- Establishing Effective Scheduling Process
- Breaking a Facility Into Logical Parts and Level Loading of PM-PdM-CBM
- Developing an Equipment List and using Modern Identification Techniques
- Writing PM Task Lists and Having Continuous Updating/Review
- Developing Equipment Manuals and Plans for Best Maintenance Strategy from RCM
- Setting Up Your Asset Inventory Correctly and with Bar Coding
- Documenting and Validating Results of PM-PdM-CBM

Day Two: Maintenance Policies and Logistics Planning

- Equipment Classification and Identification
 - Functional Location
 - Equipment Type Classification
 - Equipment Identification

Day Two (cont'd):

- Part Number and Bill of Material
- Documentation Structures
- Document Identification and Classification
- Maintenance Management Policies
- Equipment Criticality Grading
- Job Record Policy
- Job Information Requirements
- Principles of Work Order Design
- Maintenance Work Prioritization
- Logistic Support Analysis
- Maintenance Task Detail Planning
- Maintenance Work Estimating
- Maintenance Levels
- Support Documentation
- Support Equipment
- Personnel and Organization
- Maintenance Logistics Planning

The Work Order System

- Purpose of the Work Order System
- Information Collected on a WO
- Job Estimating Methods
- Prioritizing Maintenance Work

Day Three: Failure Management Program with Reliability-Centered Maintenance (RCM)

- Review of RCM for Planner/Schedulers
- Failure Modes, Effects and Consequences
 - Equipment Functions and Performance Standards
 - Functional Failures
 - Failure Modes
 - Failure Effects
 - Consequences of Failure
- Failure Management Policies
- Age Related Failure Patterns
- Random Failure Patterns
- Routine Restoration and Discard Tasks
- Routine Condition-Based Tasks

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Day Three (cont'd):

- Failure-Finding Tasks
- The Application of RCM in the Development of Failure Management Policies
- Proposed Routine Maintenance Tasks
- Categorizing and Structuring Routine Maintenance Tasks
- Corrective Maintenance Planning
- Logistic Requirements Planning
- Implementing Failure Management Policies

Day Four: Work Planning, Scheduling and Control

Planning and Controlling Maintenance Materials

- Accurate Inventory Status and Effective Parts Procurement Lowers MTTB (Mean Time to Repair) and Total Costs
- Considerations in Inventory Decisions
- Economic Order Quantity (EOQ)
- Total Material Cost
- When to Order
- Definition of Notifications, Defects, Deviations
- Notification Process, Roles and Principles
- Prioritizing Notifications
- Weekly Master Schedule
 - Define Total Maintenance Requirements (Backlog) to Top Leaders
 - Master Schedule Objectives
 - Categorizing the Outstanding Workload
 - Determine Resource Availability
 - Determine Equipment Non-Utilization Profile
 - Develop Draft Master Schedule
 - Conduct Master Schedule Review Meeting
 - Final Master Schedule and Implementation
 - Backlog Management

Controlling Maintenance Work

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

Day Five: Information and Performance Management

Planning and Scheduling of Major Maintenance WOs and Shutdowns

- Planning and Scheduling
- Work Breakdown Structure
- Critical Path Method (CPM)
- Resource Scheduling and Leveling
- **Safety in Maintenance**
- Myths About Safety
- Accidents and Injuries
- Unsafe Acts and Unsafe Conditions
- Cost of Accidents
- Safety Audit

Life Cycle Cost of Equipment

- Capital Budgeting
- Accounting Rate of Return (ARR)
- Payback Method
- Net Present Value Method (NPV)
- Replacement Analysis of Equipment
- Management and Information
 - Information and Control
 - Management Levels and Information
- Performance Indicators
- Workload Performance Indicators
- Planning Performance Indicators
- Effectiveness of Performance Indicators
- Cost of Performance Indicators
 - Management Reports

We Personally Guarantee This TrueWorkShop™!

We will give you the firepower and knowledge needed to implement a successful PM program, to use the Predictive Maintenance and Condition-Based maintenance technologies that apply to your operation. We will reinforce your current maintenance needs to the top leaders in your organization.

We will help you be “the maintenance messenger” to get action from Top Leaders. We can personally help you make a difference in the total operations success of your organization after you attend this event! Top Leaders must clearly understand your needs and the consequences of gambling with maintenance costs and a bad PM and PdM program.

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Your Instructors and Coaches



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™**.



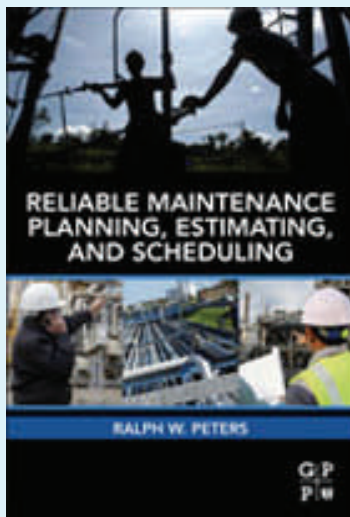
Dennis Delsanter provides over 25 years experience in the design and implementation of reliability maintenance and manufacturing process work management systems. Some examples: With client participation Dennis has led the development of management systems for warehousing, preventive/predictive maintenance, operator based maintenance, planning, estimating, scheduling, and asset management. Dennis also provides the necessary skills training and management development to ensure sustainability. This requires establishing relationship of trust with those who will be the most affected by change. Typical assignments, resulting in increased reliability, work efficiency and profitability, have included: Exxon Mobil, Ashland Marathon, Koch Industries, Hercules Chemical, American Cyanamid, Beliot Manufacturing plus other companies in the paper making, food processing, steel, pharmaceutical and automotive sectors. Prior to his current career as a consultant, Dennis spent 20 years in all levels of Pharmaceutical Manufacturing. He has experience is in both human and veterinary products. Held positions in quality control, research, and manufacturing. His last position was Director of Operations for a mid-western pharmaceutical company.

Training is Not Over When it's Over!

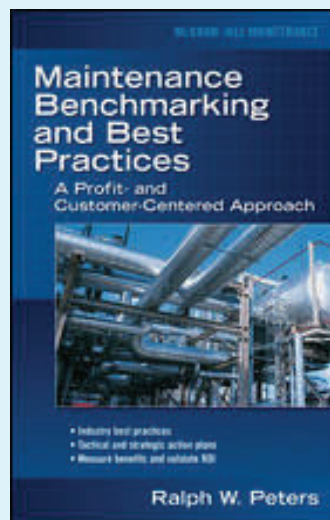
Your company will benefit most if you attend as part of a 2-3 person company team. There will be scheduled practical exercises with facilitation support from MEI staff. The workshop **"is definitely not over when it's over"**. **Yogi Berra once said, "It ain't over until it's over!"** Following completion of this **TrueWorkShop™** a personalized follow-up will be scheduled for each attending participant and organization. Our one-on-coaching will help you to apply the key topics. Successful implementation is your key to results!

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 Power-Point'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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