



Integrating RCA-RCM and Value Engineering (VE) for Measurable Return-on-Investment

RCA that Supports RCM with VE for Measurable ROI

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

This **TrueWorkShop™** covers three important tools: RCA, RCM and VE to form an integrated approach to improving the reliability of critical physical assets. Root Cause Analysis is reviewed as a key tool for supporting the overall RCM process. It considers a strong RCA-RCM process followed, as needed, with value engineering (VE) to include life cycle costing.

TrueWorkShop™ Key Benefits

1. Best practices for successful team building
2. Learn how RCA applies to all types of operational issues and how it supports RCM and maintenance
3. Learn how the mathematics of probability impacts the level of reliability of a "system"
4. Learn RCM for defining the best maintenance strategy
5. Gain a working knowledge of value engineering
6. Determine how to define your overall best practice needs
7. How to measure and validate all results of total maintenance process improvement
8. How to define your return-on-investment

NOTE: This 3 day session can easily be expanded to a 5 day on-site session

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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Establishing successful leadership-driven self-managed teams will be a centerpiece of all three of these tools that may be used separately or in combination. With RCM striving to determine the best maintenance strategy within the operating context, of the asset; RCA provides the tool to help define the real problem(s) during the RCM's team work.

Value Engineering then helps evaluate RCM recommendation for the maintenance strategy that may have a great cost such as overhauls and remove and replace major parts or components. Or in some cases, the best value proposition could be equipment replacement or a delay until a plant shut down.

This is today's only **TrueWorkShop™** that integrates a team-based process in order to maximize three important stand alone tools RCA, RCM and VE. While not a detailed look at each tool, the attendees will be provided extensive electronic references for each topic plus recommendations on how to build lasting skills for each of these three very important improvement processes. It will motivate them and provide electronic references to learn more about each tool and in some cases become certified in areas like VE from SAVE (Society for Advancement of Value Engineering)

⇒ Attendees will experience a cross functional team process by working as teams on a number of practical exercises plus their final PowerPoint presentation on the last afternoon of their training session. Our goal is for each attendee to take back new ideas and solutions to be implemented and to achieve a 10-to-1 return-on-investment for this training within their organization.

⇒ Attendees will gain an understanding of RCA, RCM, and VE as three important tools to consider for improving maintenance processes that lead to maintenance and reliability excellence. The advantage of using a team process will be the key to success. When using these well-proven tools a chartered leadership driven self-managed team will be a goal for attendees to be able to use during the session and how they develop a formal recommended charter document for a team in their organization.

Who Should Attend:

- VP of Operation
- Engineers of all disciplines
- Maintenance Engineers
- Reliability Engineers
- Maintenance Leaders
- Supervisors
- Foremen
- Team Leaders
- Planners
- Schedulers
- Craft Leaders

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

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™**.

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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: Focus on Root Cause Analysis & Team Building

1. Introductions and Discussion on Attendees Top Area for Improvement
 - Break Into Teams,
 - Review Charter,
 - Complete Individual Top 5 Areas for Improvement
 - Work as team - prepare for presentation during PM of last day
2. Understanding Productivity and Overall Craft Effectiveness (OCE)
3. Why Use Leadership Driven, Self-Managed Teams?
 - Advantages
 - Developing Your Team Charter
 - Practical exercise for your RCA-RCM-VE Team
4. Root Cause Analysis- A Universal Tool and Process for Problem Solving
5. Considering Risk-Based Maintenance with the RCA-RCM Process

Day Two: Focus upon RCM with RCA Supported by Teams

1. Understanding the Math of Reliability and Probabilities for Failures
2. Review of the OREDA Database Available for Offshore Operations and How it Applies to All Types of Operations doing Maintenance of Major Equipment
3. How to Define Your Critical Equipment and Spare Parts
4. Maintenance Strategy Review: PM, PdM, Condition-Based Maintenance, Continuous Monitoring, Remove and Rebuild or Remove and Replace
5. Using RCM to Establish the Best Maintenance Strategy for Critical Equipment
6. Key Factors in Reliability Excellence
7. Measurement of Success with *The Reliable*

Day Three: Focus on Value Engineering for Maximum Return-on-Investment of Repairs , Rebuilds, or Replacements

- What is Value Engineering and How Does it Apply to Maintenance Decisions?
- Key Steps in the Value Engineering Process
- Why Cross Functional Teams are Absolutely Necessary for VE
- VE as it applies to Life Cycle Costing and Replacement Decisions
- How to Define "Where You are with Maintenance Excellence Best Practices" Using TMEI's *Scoreboard for Maintenance Excellence*
- Team Presentations of Top 5 Recommendations for Improvement

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.

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

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What is a TrueWorkShop™?

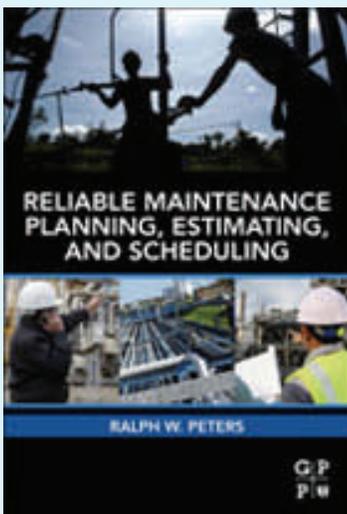
The Maintenance Excellence Institute International believes the [principles](#) and [practices](#) covered can be taken back and put into practices for a true return on investment for the training. We provide:

- 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.

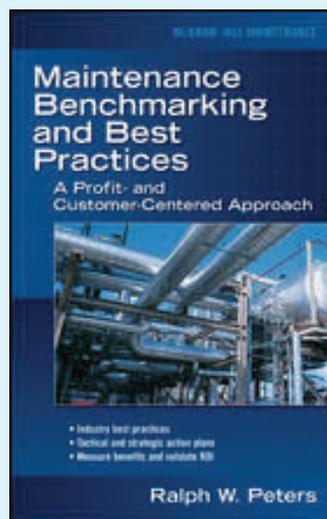
We have helped very large organizations develop a client specific [Scoreboard for Maintenance Excellence](#). We have found that best practice training is necessary so an organization truly understands the full potential of our assessment results.

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

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.

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!

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.