

The Maintenance Excellence Institute

Worldwide Services – Measured Shop Level Results
www.PRIDE-in-Maintenance.com

Implementing Effective Preventive and Predictive Programs

Achieve Profit and Customer-Centered Maintenance

This TrueWorkShop Will Provide You Answers To These 4 Important Questions:

1. Are you taking risks related to safety, security, health, and the environment?
2. Could critical equipment failures completely shut down your operation?
3. Should you consider contract maintenance?
4. Are you dissatisfied and really want to improve?

And

Will Help You To:

- Avoid having major equipment or facility failures and
- Implement two very important maintenance best practices

You Can Achieve Measurable Results from PM and PdM:

Preventive Maintenance (PM) is the first line of defense for your physical assets, whether they are in a manufacturing plant, a university facilities complex, a hospital, a fleet of delivery trucks, a sports arena or a golf course. PM is that very important first step of performing PM tasks based upon time interval, miles or operating hours. And where PM leaves off, Predictive Maintenance (PdM) needs to take over and provide a "prediction" of potential failures based upon actual operating conditions.

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 course 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 course will help ensure you have other basic practices in place for a profit and customer-centered operation.

This TrueWorkShop is Tailored for Participants from Maintenance and Facilities Management Operations to Achieve Measurable Bottom-Line Results

Who Should Attend?

- Engineering Managers
- Facility Managers
- Future Foremen
- Future Supervisors
- Maintenance Coordinators
- Maintenance Engineers
- Maintenance Foremen
- Maintenance Managers
- Maintenance Planners
- Maintenance Supervisors
- Plant Directors
- Plant Engineers
- Property Managers
- Storeroom Managers

If results from this TrueWorkShop do not provide a Return on Investment to cover your time and training costs, you will receive a complete refund.

Ralph W. Peters

Founder-President-Coach for TMEI

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It's a 'How To' Step-by-Step Approach

What is a TrueWorkShop?

The Maintenance Excellence Institute believes that the [principles](#) and [practices](#) covered can be taken back and put into practice 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.

You will begin parts of this **TrueWorkShop** *before* the actual start date; and you will receive personal follow up *after* it is over.

This **TrueWorkShop** will guide you step-by-step through the PM & PdM installation process, helping you to:

- Assess your current needs and present PM performance
- Define criticality of assets, your repair problems, and goals
- Plan for PdM and Develop the optimum PM & PdM program for your operation
- Understand how RCM and RBM can apply for the optimum solution
- Justify your investment and validate the benefits
- Develop a realistic Plan of Action
- Measure benefits with your Maintenance Excellence Index
- Sell your program to Top Leaders and continue it long term

After this TrueWorkShop you will know how to evaluate your maintenance situation with [The Scoreboard for Maintenance Excellence](#), improve top priority areas, and get the results you want.

Work Shop Topics

Below is the program agenda and we also provide these three very important deliverables in an easy to use Excel format.

1. [The Scoreboard for Maintenance Excellence](#) - Today's most comprehensive benchmarking tool for each attendee's operation that benchmarks your site 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 measurement process to validate shop level results

Day One:

Introductions, Participants Review Areas for Improvement and Select Project Teams

- Today's Maintenance Challenge
- Maintenance Around the World
- How to Ensure Other Best Practices are in Place
- Developing Your Maintenance Excellence Strategy (Boeing Case Study)
- Using [The Scoreboard for Maintenance Excellence](#) to Define "Where You Are Now"

The Maintenance and Equipment Audit: Key Step Before Starting PM/PdM

- Determine your current maintenance productivity

- Establish your current equipment condition and equipment performance (baseline)
- Determine the need for PM and PdM
- Calculate costs and benefits of P/PdM

Determining the Right PM System for Your Type Maintenance Operation

- Different types of PM
- PM organization and staffing

PM Techniques

- How to determine PM requirements for your equipment
- Equipment cleaning and lubrication
- Equipment inspections, adjustments and servicing

Day Two:

How to Develop and Install a Good PM System

- The 10-step PM installation program

- Keeping an effective and useful equipment history
- PM work orders/PM checklists/PM reports

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How to Plan and Schedule PM and Measure Results

- Determining PM frequencies and how to schedule PM
- Time-based or usage-based scheduling
- How to measure PM effectiveness and results
- Measuring and analyzing downtime and downtime trends

Predictive Maintenance Techniques, Applications, and Instrumentation

- Elements of PdM (mechanical and electrical)
- Equipment condition monitoring

- Predicting potential equipment breakdowns or expensive repairs

Specific PdM Techniques and Applications

- Vibration analysis/monitoring
- Shock pulse method
- Spectrographic oil analysis
- Ferrographic particle analysis
- Thermography/temperature measurement
- Non-destructive testing (NDT)
- Ultrasonic testing, and more

Day Three:

Getting Organized for PdM

- Planning for PdM; the preparatory steps
- Starting with a PdM pilot program
- Scheduling PdM
- Combining PdM with PM for greatest overall effect and least cost
- Organizational requirements

Measuring Results of PdM

- PdM database/data collection
- Costs of PdM (equipment/instruments, labor, and services)
- How to determine PdM benefits and return on investment (ROI)
- Decision factors for in-house vs. contracted PdM

Components of a Well-Organized P/PdM Program

- Equipment inventory/numbering system
- Spare parts inventory/forecast
- Sequence of tasks (PM and PdM routes)

- Equipment and maintenance performance indicators and trends

Combining Planned Maintenance, PM, PdM and TPM for Best Overall Results at the Least Costs

- Custom-making your maintenance system based on your equipment, plant location(s), and plant size
- Selling your solution to management (and getting the budget and management commitment)
- Phased installation for guaranteed results

Other Important Maintenance Best Practices

- Continuous Reliability Improvement (CRI)
- Making (RCM) Work for You
- Strategies for Total Productive Maintenance (TPM)
- Using (RBM) as a Risk Management Tool
- Maximize the Value of Your CMMS
- Using the CMMS Benchmarking System (SIDERAR Case Study on SAP)

Your Instructors and Coaching Team



Ralph W. (Pete) Peters the Founder/President of The Maintenance Excellence Institute 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 20 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.

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**.



Robert E. "Bob" Gaskins, Vice President of TMEI and President of The Vision Team, (his own company), supports all TMEI events. **The Vision Team** specializes in motivational instruction and results-based facilitation for applying today's best business practices.

Bob has over 40+ years of manufacturing and maintenance experience and always brings a "magic touch" and down home humor to each TMEI event. His real world experiences as a sales engineer for technical equipment adds great value as does the true case studies on the need for maintenance excellence for new equipment installations. He supports our Maintenance Excellence Services area with on-site consulting.

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Bob is also directly responsible for public training events in the USA, Alliance Team Member support, and other TMEI key areas.

Even in Good Economic Times Maintenance is Forever!

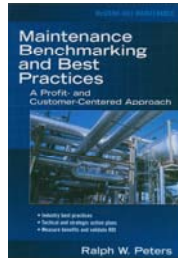
Gain an Understanding of the True Value of Maintenance:

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.

An Extensive Reference to Take Home:



TMEI provides more electronic references than any other course now being offered in the world. This workshop is based on Pete's book from McGraw-Hill's professional division: *Maintenance Benchmarking and Best Practices: A Profit and Service-Centered-Approach*.

Each organization will receive an e-book copy of this book plus many, many more valuable references on CD. The electronic version is included to allow easy application and duplication of all materials in this book.

All PowerPoint's used and “The Mother of All Maintenance and MRO Materials Management Glossary” are included.

Take An Important First Step:

This training process is for application and not theory. Like the book, this training 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.

We Personally Guarantee This TrueWorkShop!

We will give you the firepower and knowledge needed to implement a successful PM program and to use the Predictive 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.

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 which will work together. When 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 participant and organization. Our one-on-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!

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TRAINING INVESTMENT:

Your Investment of \$990 per person for a 3-Day Session is the World's Best Educational Value!! In Fact, register 3 and the 4th person attends for FREE! That is a 25% savings for a Team of 4.

Investment:

Training is an investment and *all* of TMEI's **TrueWorkShops** are today's best value. They are results-oriented and focus on implementation.

For a 3-day session your investment is \$990 per person, but pay for 3 and send a 4th person **FREE**. That is an immediate and a direct savings of 25%.

Workshop schedule is from 8:30 AM to 3:30 PM each day. All lunches and reference materials are included. Dress is casual.

- a) **Provide a purchase order number:** We will send an electronic invoice to your organization*
- b) **Send checks payable to:** The Maintenance Excellence Institute
6809 Foxfire Place, Suite 100 ♦ Raleigh, NC 27615
- c) **Purchase online:** Visit www.PRIDE-in-Maintenance.com. We accept Visa, MasterCard and American Express
- d) **Direct Bank Deposit:** Contact Bob Gaskins at 919-841-0705 for direct wire transfer information of your payment*

**Please call Bob Gaskins at 919-841-0705 with the names of your attendees for certificates, or if you need any assistance.*

For More Dates and Locations Please Download Our [2010 Schedule](#)

In-House Opportunities With No Boundaries!

We Can Help You Plan This Program at Your Site as a Customized In-House Event No Matter Where You are Located. For More Information Please Contact:

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