

**ACHIEVING**

# TOTAL PROCESS RELIABILITY THROUGH TPM

*TPM has been evolving for over 25 years...  
...Marshall Institute has been refining it all along the way...*



## TPM/TPR GOALS

- ✓ *Zero Breakdowns*
- ✓ *Zero Defects*
- ✓ *Zero Minor Stoppages*
- ✓ *Lower Costs*

To accomplish these goals, the various phases of the equipment's life span are properly observed and focused effort applied.

**2008**

**August 12-14**  
*San Fernando, Trinidad, W.I.*

*Hosted by*



**DPPS COMPANY LIMITED**  
DIVERSIFIED PROJECT PLANNING SOLUTIONS

Authorized Marshall Institute Inc. Representative

# ACHIEVING TOTAL PROCESS RELIABILITY THROUGH TPM

Based on our new TPM/TPR Implementation Model, this progressive, updated course sets forth an implementation strategy for assisting an organization in understanding their current situation, the value of change, developing the required support structure, and strategy for implementing and sustaining reliability improvement.

## TRADITIONAL TPM vs. TPM/TPR

Total Productive Maintenance has resulted in a strong partnership among operations, maintenance, and engineering. In the US, however, TPM is often identified only with operator-assisted maintenance, also known as Basic Equipment Care, or Autonomous Maintenance. While basic equipment care is only a piece of the whole TPM puzzle, many companies find the term "Total Productive Maintenance" difficult because of the implication of the word "MAINTENANCE." Clearly, the process is more far-reaching.

## By taking the original concepts of Total Productive Maintenance...

- ... analyzing current systems
- ... developing a structured implementation strategy
- ... utilizing internal resources
- ... motivating a sense of pride and ownership
- ... empowering companies to make it work for them ...

...and adding structured tools, such as Root Cause Analysis, PM Optimization, and others, we have refined TPM into Total Process Reliability "TPR".

We have created a strong strategic planning process to embed and sustain support for TPR. We have added the development of process guides to standardize systems.

As a result, Marshall Institute has established TPR as our approach to improving operational reliability of major assets.

## WHO SHOULD ATTEND THIS SEMINAR?

- VP Operations
- VP Production
- VP Engineering
- Maintenance Directors
- Manufacturing/Production Managers
- Union Officers
- Maintenance Superintendents
- Labor Relations Managers
- Maintenance Personnel
- Production Managers
- Reliability Managers
- Continuous Improvement Managers
- Financial Managers
- Maintenance Supervisors
- Reliability Engineers
- Union Committees
- Plant Industrial Engineers
- Operations Managers
- TPM/TPR Coordinators

## 10 Specific Benefits of Attending This Seminar...You Will Learn:

1. How to implement TPM/TPR in existing facilities, large and small, union or non-union
2. How TPM/TPR complements and supports your Lean and Six Sigma efforts
3. Why Basic Equipment Care is not enough, and why implementing ALL elements of TPM/TPR is critical for improving equipment reliability and effectiveness
4. The importance of assessing the current systems to determine where to start with TPM/TPR
5. The critical importance of internal champions, and total involvement and support at all levels in the organization
6. How to combine "quick wins" with improved systems to achieve long-term, sustainable change
7. How to establish small groups and Equipment Improvement Teams (EITs) in your organization
8. The difference between "chronic loss" and "sporadic loss"
9. Why auditing is a critical component of a successful TPM/TPR process
10. How to use the TPM/TPR Reliability Improvement Model to embed and sustain the changes, leading to a successful, sustainable TPM/TPR effort

## What Attendees have said about this course . . .

"This was a seminar that had the highest percentage of useful information that I feel comfortable going back to my organization and putting into practice. It was the best three days I have ever spent at a seminar."

*Dennis Bell, Manager of Manufacturing Services, Kennametal Inc.*

"Great information for starting TPM/TPR. The subject was well addressed visually, verbally, and information in binders is great reference material for the future."

*James Ellerbee, Simmons Foods*

"Any company that is serious about implementing TPM needs to attend this seminar. The presentation, hand-outs, and real-life examples, are exceptional. You cannot get the same info from reading a book."

*Steve Claar, Process/Productivity Engineer, Rubbermaid*

"Good Training! I have learned applicable topics for my job well enough to use them."

*Scott Nassett, Manufacturing Engineer, Steffes Corporation*

"This program brought the steering committee to the same level and understanding of TPM and the role they play for successful implementation."

*Michael Courts, Maintenance/Engineering Manager, John Deere Engine Works*

## Basic Concepts of TPM/TPR

*Origins of TPM/TPR; TPM/TPR philosophy; goals of TPM/TPR; benefits of TPM/TPR; 3 major principles of TPM/TPR; elements of the organizational structure of TPM/TPR*

## Assess the Current Systems

*Gap analysis and its purpose; selecting areas to assess; organize data to assess the current state; the desired state; when it is not suitable to implement TPM/TPR*

## Build a Compelling Case for Change

*Identify and evaluate the need for change (drivers and barriers); elements of the change process; brainstorm and prioritize the barriers and drivers faced within the organization; principals for developing a business case for change*

## Develop Support Structure & Implementation Strategy

*Characteristics of successful Coalition Roles; identify potential candidates for these roles; training requirements and how your organization would support these roles; importance of education and communication in expanding the support structure; steering committees, implementation teams, and focus teams; purpose and benefits of these teams; identifying individuals to participate on each team; principles to establishing a good vision*

## Develop Internal Expertise to Drive the Change

*TPM/TPR Coordinator/Change Agent roles and responsibilities; identifying potential candidates for the role; Change Agent Workshop Model training concepts*

## Demonstrate Quick Wins

*5Ss; 7 steps of Basic Equipment Care; concepts of Equipment Improvement; categories of losses; the six big losses & OEE; life cycle cost; makeup and function of Equipment Improvement Teams; concepts of Root Cause Analysis using the DMAIC problem-solving process*

## Improve the Systems

*Creating effective process guides; concepts of Maintenance Excellence including proactive integrated maintenance model, elements of a good PM/PdM program, performance measures; key elements of a good maintenance system; factors that lead to good performance and the elements that make up a training model; need for and objectives of Equipment Design Excellence*

## Embed the Improvements

*Linking Key Performance Indicators to leadership's goals; linking TPM/TPR principles with quality standards; auditing process guide implementation*

## Sustain the Improvement

*Monitoring change elements; rewards and recognition; certification*

## Implementation Steps

*8 Phase Reliability Improvement Model; Initial Steps*

This program will outline your approach to make this process a winner in your organization!

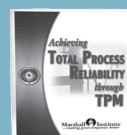
### Daily Networking Lunches Included

## SEMINAR FACILITATORS

**GREG FOLTS**, President, is an experienced TPM/TPR and maintenance consultant, leading reliability improvements at manufacturing sites around the world. As a seasoned manager of continuous improvement, Greg gained his knowledge first-hand implementing TPM, LEAN principles, Six Sigma, and ACE initiatives in a 1000 employee, union factory. In addition, Greg has conducted numerous Kaizen events, Workshops in Basic Equipment Care, 5S, TPM Coordinator's Workshop, and Root Cause Analysis. He has assisted in developing TPM/TPR and maintenance improvement strategies for Boeing, Harley Davidson, BMW, Mercury Marine, Monsanto, Leggett & Platt, Appleton Papers, Federal Mogul, Shell, etc, saving millions of dollars. Greg is passionate about improvement processes – his enthusiasm is contagious.

**NICK FLYNN**, Senior Consultant, Mr. Flynn is an industrial engineer with over 30 years of experience in program and project management and lean manufacturing practices and processes. While working in the aerospace and defense industries, he was responsible for leading Total Productive Maintenance and Continuous Improvement projects. He promoted and organized activities throughout the factory to achieve greater equipment effectiveness and trained machine operators to share responsibility with maintenance for routine inspection, cleaning, and minor repairs, increasing productivity and quality, optimizing equipment life cycle cost, and enhancing employee job knowledge and skills.

**FRANK HAMMITT**, Senior Consultant, is an experienced engineer, maintenance professional, TPM/TPR and Lean consultant. Over the last thirty-three years, he has worked in the areas of production control, manufacturing, engineering, quality, and maintenance. Most recently, he has consulted in various plants using World Class Maintenance techniques to develop corporate level strategy and mission initiatives and to deploy the tactics to the plant floor. He has instructed and implemented Total Productive Maintenance and Lean Manufacturing in numerous and diverse manufacturing facilities to achieve positive results. His TPM/TPR efforts have improved ROI by 30%; profitability by 243%; and improved equipment uptime by 42%.



You'll get this FREE fact-packed Learner's Guide, designed around Marshall Institute's 8-Phase Reliability Improvement Model, to guide your TPM/TPR efforts!

**"A reduction of equipment failure by 20-30% increases productivity by 40-50%"**

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**Marshall Institute**  
...making good companies better

## 5 KEY ELEMENTS TO INCREASED RELIABILITY

Maintenance Excellence is the cornerstone upon which we will build the reliability process. But it is critical to engage operations in Basic Equipment Care and improve the equipment through such techniques as RCA or Equipment Improvement Teams. Knowledge and Skills for operations and maintenance are imperative to fundamental knowledge of how to operate and maintain the equipment, thus increasing and sustaining reliability. Finally, Equipment Design Excellence will move us toward purchasing equipment that is designed for reliability and incorporates the learnings of RCA, Basic Equipment Care, and improved maintenance practices.

## Four Ways to Register

Phone: 868-681-5756 Trinidad  
804-732-8626 USA

Fax: 868-653-1053

Mail: DPPS Company Limited  
21/2mm South Trunk Rd  
La Romain, San Fernando  
Trinidad, W.I.

Web: [www.dppsc.com](http://www.dppsc.com)

## WE CAN PROVIDE THIS COURSE AT YOUR FACILITY!

**Learn from the premier provider of maintenance consulting services for over 30 years!** This program can be customized and **presented at your facility**, and Marshall Institute can provide you with **in-house consulting**. For more information on bringing this seminar to your site or our consulting services, call DPPS at 868-681-5756.

Satisfaction 100% Guaranteed or Your Money Back

## Cancellation Policy

If you need to cancel your registration, please do so at least two weeks prior to the seminar. We cannot refund payment for registrations cancelled within the two weeks. Transfers and substitutions are gladly accepted. DPPS reserves the right to cancel seminars with two weeks' notice. In the event that we must cancel a seminar, your payment will be refunded in full or applied towards other seminars of your choice. We regret we cannot be responsible for non-refundable travel arrangements.

## YES! Please Register Me in This Powerful Three-Day Seminar

Hosted by



August 12-14  
**Royal Hotel**  
46-54 Royal Road  
San Fernando, Trinidad, W.I.  
[www.royalhoteltr.com](http://www.royalhoteltr.com)

### Names of Attendees (Please print or type)

Name \_\_\_\_\_ Position \_\_\_\_\_  
Name \_\_\_\_\_ Position \_\_\_\_\_  
Name \_\_\_\_\_ Position \_\_\_\_\_

Company \_\_\_\_\_  
Address \_\_\_\_\_

Telephone \_\_\_\_\_ Fax \_\_\_\_\_  
E-mail: \_\_\_\_\_

### Payment Type:

Purchase Order # \_\_\_\_\_  
 Check  Visa  MasterCard  American Express  
Card #: \_\_\_\_\_ Exp. Date \_\_\_\_\_  
Print Name \_\_\_\_\_  
Signature \_\_\_\_\_