

TPM Implementation Strategies That Work

5th & 6th June, 2006 Intercontinental The Grand, Mumbai. 8th & 9th June, 2006 Radisson, Delhi.

TOTAL PRODUCTIVE
MAINTENANCE



From the Speaker's Desk

It has been shown that modern Industrial Competitiveness is based on Methods-before-Technology. There is also consensus that Total Productive Maintenance is the magic wand of Japanese Manufacturing prowess. TPM is credited as the Manufacturing Methodology that has enabled Japan to achieve and sustain pre-eminence into the post-modern manufacturing world.

Japanese Organizations such as Toyota Motors are renowned for their proven ability to provide products at the lowest Cost possible, most reliable Quality and shortest Cycle-time. Such achievements are not achieved by Management decree or simply by the advantages of a lower cost base, but only through careful design, sustained nurture and effective implementation.

TPM's three-pronged strategy of Total Employee Involvement, Equipment Excellence and Skills Development are supported by sophisticated yet effective, systematic and analytical tools and processes. Success with the TPM program gives critical Manufacturing Excellence performances of near-zero defects and breakdowns as well as low same-type machine-to-machine variations. It can transform your manufacturing plant to compete successfully with the best-in-class and lay the foundation for other cutting-edge practices like JIT, Kanban, Demand Pull and other aspects of Lean.

Yet many Enterprises' experiences with TPM had been less than gratifying. Common complaints range from experiences that TPM took too many years to see results, or assertions that it is a Culture-bounded Methodology and even claims that it simply cannot deliver the promised results.

Are you looking to implementing TPM or doing a mid-term TPM strategic review? You would want the benefits of this Expert-Workshop and get Industry-Proven advice. Inform yourself with this expert-level Industry-Based TPM Workshop led by an experienced Industry TPM Consultant of various Industries such as Electronics, Semi-conductor, Power, Newsprint Paper Mill, Ceramic Tiles, Motor-cycle. Our Industry-Proven TPM Successes and hands-on consulting Experiences can make all the difference to you.

Properly executed TPM will transform your manufacturing plant to match and even exceed the best-in-class!

All the Best

Moses Tan



Every unplanned
breakdown event
and defect
occurrence when
understood can be
traced to a
deviation from the
Basic Machine



TPM IMPLEMENTATION STRATEGIES THAT WORK...

Your TPM Expert

Moses Tan (MSc, BIT, Dip Electronics, Cert-Tech Ed] is an Industry TPM Consultant since 1996. He specializes on TPM as a professional focusing especially on implementation details and methods. He spent last 10 years at Silicon Systems, a TDK-owned Manufacturer. During this time, he was assigned various roles in HRD, Production and TPM (Total Productive Maintenance). His last position was 6 years as TPM Training Manager under the direct supervision of TDK advisory staff located on-site in Singapore. He also worked with TPM counterparts in the United States.

His academic credentials are a balance of the hard and soft skills – MSc (TQM Major) from Leicester University; BIT (University of S Queensland), Dip. In Electronics (Singapore Polytechnic). He is also a certified ISO Certified Lead Assessor.

After 20 years in employment, he left the TDK Company in 1995 and founded his own Consultancy business, ZenPower International. He is fully focused on TPM alone, specializing in all the details and techniques of TPM theory and Industry applications to be the Best Regional provider of customized Industry TPM expertise and generic TPM training provider.

Moses also caters to Specific Trouble-Shooting of Serious Chronic Problems:

Probably, the most challenging projects that prove his expertise were on-site facilitation of actual and serious Chronic Problems in terms of quality defects and equipment failure by using P-M Analysis to help his Clients resolve. To date, he has personally under-taken on-site facilitation of more than 17 Chronic Problems at various Clients' factories with 100% ** success rate. Many of these are Industry-wide type of chronic problems in the Paper Mill, SMT, Semi-conductor Assembly and Test and Automobile Industry, which he successfully undertook with the Clients' technical staff. He enjoys such challenges best. All Process, Assembly or fabrication Companies facing persistent and crippling Chronic Problems are invited to contact us for a fast problem-resolution proposal without obligations.

Workshop Objectives

This industry-based and immensely informative expert-workshop will provide the delegates from all types of manufacturing and process industries with the latest industry-tested and proven approaches to achieving the results promised in TPM and in a shorter time. Specifically, it will enable delegates to:

- Understand the 10-Pillar TPM Process, Tools and Methodology from the Conceptual and Implementation perspective.
- Construct and Establish measures for all TPM Pillar activities at both the micro and macro levels.
- Create and supply the proper structures at the Top, Middle and Bottom Organizational levels to support effective TPM implementation.
- Devise and innovate a fast-track Industry-tested TPM Implementation strategy of 2-to-3 years to shorten the implementation cycle and avoid Organizational fatigue which is a major cause of TPM Implementation failure.
- Offer your Maintenance Group a Professional Development incentive to overcome a common fear of redundancy which often works against TPM implementation in their company.
- Manage the Kai'zen culture development stages using Industry-Tested 3-staged development based on advanced psychological principles.

Who should attend

This workshop is highly recommended for CEOs, Presidents, Directors, GMs, Top Management, Chief Engineers And all other Senior Officers who are interested or responsible to bring about excellence to all Manufacturing or Process-type Enterprises.



Programme Schedule

Registration: 08.30 - 09.00 Hrs.

Workshop: 09.00 - 17.00 Hrs.

Lunch at 13.00 Hrs.

Pre-requisite

Participants should have some basic knowledge of quality and manufacturing concepts



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TPM Implementation Strategies That Work...

Day 1

9.00 AM

1. Critical Success Factors in TPM Implementation and Common Pitfalls.

- 1.1 In-depth skills of TPM Processes, Tools and Implementation.
- 1.2 Be able to measure all what you are doing at micro and macro levels.
- 1.3 Provide appropriate resources in quality and quantity.
- 1.4 Just-do-it and make it FAST don't let Organizational fatigue set in year 3.
- 1.5 Calm their fears and offer developmental experiences.
- 1.6 Know proven steps to build a Company Culture for excellence.
- 1.7 Round-Up and Q&A

2. Introduction to TPM

- 3.1 History of TPM.
- 3.2 The Loss or Waste Structure in Manufacturing.
- 3.3 The Overview of a TPM Development Program.
- 3.4 Organizing For Step-by-Step TPM Implementation.
- 3.5 Goals, Targets and Measurements in TPM.
- 3.6 The Cultural Challenges in TPM implementation.
- 3.7 Round Up and Q&A

3. Equipment OEE Methods of Improvements.

- 2.1 Methodology and Steps in Equipment OEE Improvement.
- 2.2 The Six Big machine Losses and definitions.
- 2.3 Defining and Understanding OEE (Overall Equipment Effectiveness)
- 2.4 OEE Analysis through graphical analysis for areas of opportunity.
- 2.5 Definition of Speed loss, defect loss, setup loss, MTBA, MTBF losses
- 2.6 Round-up and Q&A

4. Total Worker Involvement Through Autonomous Maintenance.

- 5.1 The Step-by-step approach for developing the 7-Steps in Autonomous Maintenance
- 5.2 The standards, objectives and detailed approach for the 7-Steps.
- 5.3 Sustaining of Autonomous Maintenance.
- 5.4 The critical role of harnessing Production Workers in Autonomous Maintenance.
- 5.5 Role of Top Management in promotion of Autonomous Maintenance.
- 5.6 Critical Role of Autonomous Maintenance in world-class manufacturing.
- 5.7 Round-Up and Q&A

Course Ends at 5.00 pm

Day 2

9.00 AM

5 Maintenance Competence Development In TPM Planned Maintenance Pillar.

- 6.1 Four Major Maintenance Competence levels Daily Maintenance, General Inspection, Trouble-shooting , Major Overhauling and Improvements levels.
- 6.1 Maintenance Data systems for MTBF, MTRR, MTBA, OEE.
- 6.2 Role of Maintenance Department in 7-Steps of Autonomous Maintenance
- 6.3 Systematic Approach to developing proactive (Planned) maintenance instead of fire-fighting type of maintenance (Breakdown Maintenance)
- 6.4 Concepts of Time-Based Maintenance
- 6.5 Concepts of Condition-based Maintenance.
- 6.6 Defining and setting up Maintenance Personnel Maintenance competence training and development.
- 6.7 Round Up and Q&A

6 Case Study of A Well Implemented TPM Program.

- 6.1 Autonomous Maintenance results.
- 6.2 Equipment Improvements.
- 6.3 Measurements and TPM problem solving tools.

5 Zero Defects Through Quality Maintenance & Poka Yoke (concept of mistake proofing)

- 5.1 Mindset That All defects exists through Man-Caused Mistakes.
- 5.2 Using Why-Why Analysis to find 'Mistakes' that causes defects.
- 5.3 Use Of P-M Analysis for Chronic defects.
- 5.4 Use of Optimizing Tools like Design Of Experiment, Taguchi Methods.
- 5.5 High Level Defects Mapping Using The Q-A Matrix.
- 5.6 Concepts of Mistake-Proofing (Poka Yoke) for zero defects.
- 5.7 Round-Up and Q&A

6. An Effective Fast-Track TPM Implementation Approach.

- 6.1 Usual Implementation Timelines achievable following usual JIPM-recommended implementation strategies.
- 6.2 Advantages and approach used in Fast-Track TPM Implementation to achieve about 50% reduction in implementation timeframe.
- 6.3 Round-Up and Q&A

Course Ends at 5.00 pm

Moses would be delighted to conduct In-house / customized training exclusively for your company on 29th, 30th, 31st May '06 1st, 2nd, 3rd of June, '06 for the following programs

1. TPM Introduction
2. Why-Why Analysis
3. P-M Analysis
4. Poka Yoke
5. Office & Administrative TPM or 5S
6. OEE Equipment Improvements
7. Quality Maintenance



8. Planned Maintenance
9. SMED, Lean Manufacturing
10. JIT, MTBA, MTBF, MTRR projects
11. SMWT (Self-Managing Work Teams)
12. Kai'zen Employee Suggestion Program
13. 360 Degrees Peer Appraisal FB System Development

Details on request contact Ms. Florence on 091-9819552270 or Mr. Hussain on 091-9820808526

TPM Implementation Strategies That Work

REGISTRATION

INVESTMENT FEE:

- 1 delegate - INR 19,500/- (base price)
- 2 delegates - INR 37,500/-
- 3 delegates - INR 52,000/-
(15% discount on base price)
- 5 delegates - INR 82,875/-
(15% discount on base price)

Service Tax Extra (10.2%) As Applicable

VENUE :

5th & 6th June '06
Intercontinental The Grand, Mumbai

8th & 9th June '06
Radisson, Delhi

Exclusive offer for special discount rate for team of 10 and above

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e-mail: ibc@ibcinfo.com or Visit our website: www.ibcinfo.com

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PERSONAL DETAILS

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2 Delegate
3 Delegate
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Pin:..... Tel:..... Fax:			

If you are unable to attend, we offer you the documentation course material at A discounted price on the said subject.

Payment Terms:

A confirmation letter and invoice will be sent up on receipt of your registration. Payment is required within 5 working days on receipt of invoice. Please note that full payment must be received prior to the event. All payment should be in favour of "International Business Conferences" and couriered to 12/187, Sukhmani, Behind Archies, V.P. Road, Andheri (W) Mumbai 58.

Cancellation Policy:

If you are unable to attend, a substitute delegate will be very welcome in your place with no extra cost. Cancellations must be in writing (letter/fax) and reach this office 20 working days prior to the event. Registration cancelled less than 7 days before the event must be paid in full and no refund can be given. However, if you wish to attend the next course, and you have paid your course fee in full then you are eligible for a 75% reduction on the next run of the seminar. This discount will be valid for 6 months only.



Fee includes : Documentation, Luncheon, and Refreshments & Certificate of attendance.
The program may change due to unforeseen circumstances.

IBC reserves the right to alter the venue or speakers



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