

Total Productive Maintenance

Proposed contents and module for in-house training



Training Package Includes:

- Morning / Afternoon meals and Lunch
- 1 complimentary copy of WCM book
- Complete Handouts on the course
- Selected Articles on TPM
- Exercises and Handouts on TPM
- Actual Case Study on TPM
- CD Copy of TPM Training
- Certificate of completion

Who Should Attend:

- Management and Decision Makers
- Continuous Improvement Group
- TPM Office Staff, TPM Facilitators
- TPM Manager
- Production Managers
- Maintenance Managers
- Facilities Managers
- Preventive Maintenance Group
- Reliability Engineers and Managers
- Technical Training Group
- People in charge of their assets



Reasons why you need to attend:

- **LEARN** what TPM can achieve to your company if done correctly ?
- **UNDERSTAND** the role TPM Office will play in its implementation on the goals of each TPM pillar
- **KNOW** TPM's 12 Developmental Steps and why they should be implemented in sequence
- **UNDERSTAND** TPM and RCM which is the best lb for lb improvement methodology? Do they contradict each other or complement one another and what are their strenghts ?
- **LEARN** what TPM pillars will bring the most impact to the equipment and why?
- **LEARN** why Planned Maintenance should be the strongest TPM Pillar and the role it will play with the Autonomous Maintenance activities
- **UNDERSTAND** the common pitfalls in implementing TPM and tips on TPM and how to implement TPM right the first time around
- **KNOW** what TPM can and cannot do?
- **LEARN** major reasons why many companies fail in their TPM implementation?
- **LEARN** why management support is not enough to drive TPM Activities?
- **LEARN** what are the requirements for achieving TPM Excellence Awards from JIPM?
- **PERSONAL** experiences with JIPM Consultants and what they are looking in TPM implementation

AND MUCH MORE . . .

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TPM Course Objective:

- Provide a clear structure on what Total Productive Maintenance (TPM) is and how to implement it successfully right the first time around
- Know the pitfalls of TPM and why many have failed in their implementation and most importantly learn from them
- Decide if TPM is right for your plant to implement
- Understand the different ways of measuring OEE in your equipment the goals each pillar will achieve in their TPM implementation.

TPM Course Overview:

- In today's manufacturing industries, more and more companies are seeking ways to improve their plant's performance through the application of continuous improvement tools such as TPM. Although it originated from Japan, TPM is not culture bound but rather its principles can be applied to any plant as long as the people accept TPM as a way of life.
- TPM improves the manufacturing process through the utilization of employee involvement, empowerment and closed loop measurement of results.
- Learn and apply the basic principles of TPM and the correct way of implementation as patterned from Japan Institute of Plant Maintenance (JIPM).
- This course is about understanding what it takes for an industry to achieve World Class Structure by understanding the process of TPM and what TPM can do with the bottom line if correctly applied to the workplace.

About the Resource Speaker

Rolly, is a seasoned international reliability and maintenance consultant with 29 yrs of solid experience in the field. He had been invited in different countries and have conducted reliability and maintenance trainings in United Arab Emirates, India, Malaysia, Indonesia, Nigeria, Brunei, China, Botswana, Thailand, Bangladesh and South Africa. His portfolio of maintenance trainings include Maintenance Management courses on TPM, Lubrication, Tribology, Condition-Based Maintenance, RCM, RCFA, Planned Maintenance, World Class Maintenance Management, The Twelve Disciplines, Oil Contamination Control, Maintenance Indices and KPI's, Maintenance Management System and much more. Rolly previously worked with Amkor Technology Phils., as a TPM Senior Engineer, an industry engaged in the manufacture of IC products and spearheaded their Planned Maintenance organization compose of maintenance managers and engineers. He was responsible for the dramatic reduction of unplanned breakdowns in their TPM Journey as well as RCM implementation on their Facilities AHU and as well as their sub-station equipment. Rolly is currently working as an independent reliability and maintenance consultant. Rolly had released his first book on World-Class Maintenance Management - The 12 Disciplines a book that makes every maintenance feel proud that they belong to the maintenance function.

TPM Master Class, 2009, CADP



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TPM Program Contents: DAY 1

- 0745 - 0815 - Coffee and Registration
- 0815 - 0830 - Welcome by the resource speaker
- 0830 - 0900 - Take Pre Test on TPM IQ Quiz
- 0900 - 1000 - **Module 1 : TPM Introduction**
 - How TPM originated from Japan
 - Lessons learned from the Japanese
- 1000 - 1015 **Morning Break / Meals**
- 1015 - 1200 - **Module 2 : TPM Basic Concept**
 - Establishing Basic Equipment Condition
 - Basic Concept of TPM
 - TPM and RCM Strengths
- 1200 - 1300 - **Lunch**
- 1300 - 1500 - **Module 3 : TPM 12 Developmental Steps**
 - TPM Preparatory Stage
 - TPM Implementation – 8 Pillars of TPM
 - Stabilization Stage
 - Function and Goals of Each Pillar
 - Role of everyone in TPM
 - TPM Master Plan of Implementation
- 1500 - 1515 - **Afternoon Break / Meal**
- 1515 - 1600 - Take TPM Exercises
- 1600 - 1700 - **Module 4 : TPM Pitfalls**
 - What TPM can and cannot do?
 - Mistakes in TPM implementation
 - Reasons why many industries fail in their TPM implementation
- 1700 - End of Day 1

TPM Program Contents: DAY 2

- 0815 - 1000 - **Module 5 : Implementing TPM**
 - Key Points in Implementing TPM
 - Machine Ranking and Selection of Manager's Model Machine
 - KPI's Selection for Each Pillar
 - Setting TPM Year End Goals

- 1000 - 1015 - **Morning Break / Meals**
- 1015 - 1200 - **Perform TPM Workshop**
- 1200 - 1300 - **Lunch**
- 1300 - 1400 - Bonus Module Visual Controls
- 1400 - 1500 - **Module 6 : Equipment Losses**
 - Function Loss and Reduction
 - Improving Set-up and Conversion Time
 - Start-up Losses
 - Understanding Minor Stoppages
 - Understanding Design Speed Loss
 - Quality and Rework Losses
- 1500 - 1515 - **Afternoon Break / Meal**
- 1515 - 1700 - Exercises on Equipment Losses
 - Interaction, question and answer
- 1700 - End of Day 2

TPM Program Contents: DAY 3

- 0815 - 0900 - **Module 7 : Understanding OEE**
 - Relationship Between Losses and OEE
 - Understanding Availability
 - Performance Rate and Quality Rate
- 0900 - 1000 - Workshop on OEE
- 1000 - 1015 - **Morning Break / Meals**
- 1015 - 1200 - Continue workshop on OEE
 - Present Answer on OEE
- 1200 - 1300 - **Lunch**
- 1300 - 1400 - **Module 8 : JIPM Certification**
 - Criteria for JIPM Awards
- 1400 - 1500 - **Bonus : Sample Case Study of TPM Success Story**
- 1500 - 1515 - **Afternoon Break / Meal**
- 1515 - 1630 - TPM Workshop
 - TPM Lessons
- 1630 - 1700 - Take Post Test on TPM
 - **Awarding of Certificates**
 - **Summary and Closing**
- 1700 - End of Seminar

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- The thoughts and education of the training are taught clearly. It is a very important help for me and Sanyo if we are going to apply the knowledge we have learned. Mr. Rolly Angeles is a very inspiring person. His training is very well facilitated. Arigato Gosaimasu! From Vivian Grace Garcia / Technical Staff
- A very comprehensive topic discussion was imparted. The strategies and effective ways of performing this type of maintenance was highly appreciated by all of the participants. From Jennifer Joy Siongco / Jr. Staff
- Facilitator is well adept on the subject matter.. Mr. Angeles is very good in presenting the subject matter as well as his knowledge regarding the subject. With respect to his experience, there is no doubt that Mr. Angeles is one of the best person around to teach the maintenance concept. From Jeson Solis / Engineer
- The training done was very much applicable and relevant to the need of maintenance personnel. This would greatly help in improving our current machine condition. From Geniejo P. Canete / Engineer
- The facilitator is good and familiar / expert with Planned Maintenance. It help us enlighten our knowledge in TPM and maintenance tasks. The subject is highly recommended to all maintenance personnel at any industry. From Joel Tomanan / Sr. Engineer
- The facilitator has a very good presentation and experience on the topics. I gained a lot of ideas and knowledge on how to plan for my machines to prevent breakdown. I am confident enough to train my subordinates with this kind of system. Thank you very much ! From Conrado Alapit Jr./ Engineer
Long term benefits of Autonomous Maintenance to plant equipment especially with an ageing plant like Pagbilao as well as to the plant operators. Autonomous Maintenance can improve or will help improve operator skills in equipment monitoring and maintenance. From Eric Salvacion, Shift Manager, Team Energy Corporation, Pagbilao
- Learnt how to properly monitor and maintain equipment and raise the knowledge of operators in maintaining their machines. Learnt how to document and create a super A type of operators. From A. Galang, Shift Supervisor, Team Energy Corporation, Pagbilao
- As a responsible employee, any company is your second home. So as a source of your income to support your beloved family, ownership and commitment to your job is really necessary because as your company succeed and grows, your status and condition as a whole will also follow. Autonomous Maintenance can fully support the sustenance of our company. From a Coal Plant Operator, Team Energy Corporation, Pagbilao
- There were no dull moments during the 3 days training on Autonomous Maintenance. Technical learning's were more strengthened and clearly understood through easy to relate stories, videos and clips. I wish that a time will come when people in the workplace will all think and do like this. From Jun Sainz, Coal Superintendent, Team Energy Corporation, Pagbilao

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- Very entertaining. There is a lot of learning that is very helpful. Attendees have a very good interaction with the speaker. The speaker is very approachable, open minded and willing to teach more beyond the training. The speaker is full of wisdom. Understand the clear structure of TPM, each pillars and OEE calculation. *From Joey Ponce, Utilities/Maintenance Supervisor, Oleofats*
- This TPM training is a big aspect and helpful to our company to change the culture on maintenance in order to enhance a big knowledge that will adopt little by little with this TPM and to follow what is in the lecture that we will venture. My expectation was met. Good Speaker and good venue. *From Pedro Gotgotao, CHI/CTI Engineering*
- Separates the border line between maintenance and production. Improvement process that can top any other programs and give an edge to a company as it focuses on people's involvement. A program that success not only involves the management but all of the employees will be benefited. *From Lenard Malvar, Maintenance Engineer*
- This training enlightened us so much especially the topics with regards to the 8 pillars of TPM and likewise the distinction between TPM and RCM. *From Teofilo de Guzman Jr. Mine Mobile Equipment Services, Philex Mining*
- Learned more about maintenance especially on TPM. I will basically apply some of this learnings. *From Lord Nicho Carcido, Maintenance Supervisor, Aboitiz Power*
- This training provided relevant information and overview of TPM. The key points in implementing TPM was well explained Sir Rally provided discussions that engage us with a touch of humor that kept the seminar an enjoying experience. *From Senen Arthur Aromin, Maintenance Superintendent, Philex Mining*
- Very good speaker with very good knowledge on the subject matter. Very good training room, good food and facilities. *From Ramon Quintanar, Engineering Supervisor*



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