



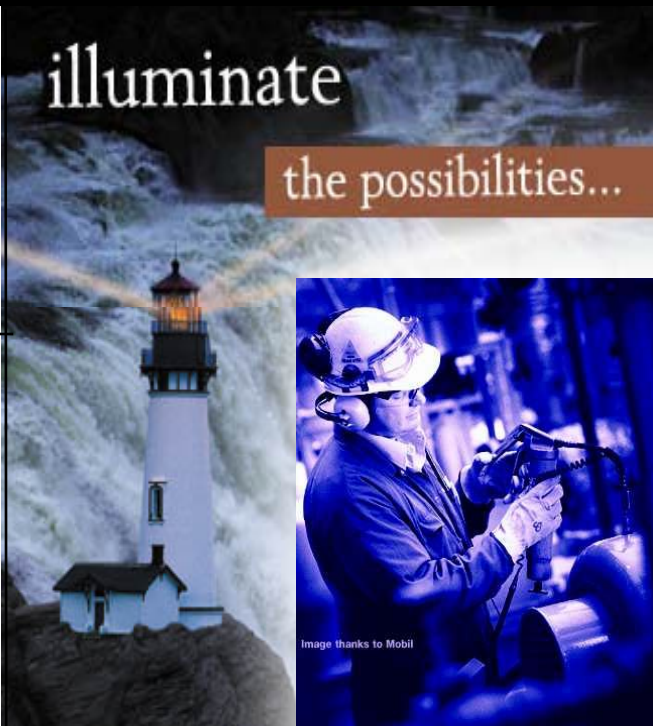
## SEMINAR TITLE : Relationship Between Equipment Losses and Overall Equipment Effectiveness

### Seminar Package Includes

- Morning / Afternoon meals and Lunch
- Complete Handouts on the course
- Articles on Meaningful Measures of Performance
- Exercises and Handouts
- Certificate of completion

### Brief Course Overview

- OEE is the primary measure of performance in TPM. It is calculated by multiplying the availability, efficiency and quality rate of an equipment. This course allows us to understand the 7 major equipment losses encountered on our equipment each day and its relationship to OEE. Each loss is being discussed in detail and how it can be reduced or eliminated. What is important is for our people to understand what losses our equipment is suffering & how to measure it.
- An ideal factory equipment would operate at 100% and 100% good Quality however in real life that is not true, the difference between the ideal and actual state would be attributed to losses which we encounter on a day to day basis. Learn if something can be done to reduce or otherwise eliminate these losses on our equipment.
- But before we can begin will be to understand why these losses occur in our equipment's



## Relationship Between OEE And Equipment Losses

### Course Objective

- Understand equipment losses and its major component including how to relate these losses to Overall Equipment Effectiveness
- Learn how to analyze OEE data in order to determine equipment constraint and bottleneck
- Understand the 7 Major Equipment Losses and how to minimize them in order to improve OEE
- Understand how to deal with these individual losses and the best maintenance indices to use
- Provide guidelines on how to improve these types of losses



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### **Who should attend ?**

- This course is best suited for those who lead or influence the direction and success of their manufacturing plants including Maintenance Managers / Supervisors, Production Managers / Supervisors, Facilities Managers Key shop floor personnel, those in charge of Continuous Improvement Programs in their Plants most specially industries adopting a Total Productive Maintenance strategy. Key people who have the authority or leadership to drive the day to day process for improving their plant's reliability & performance



### **About the resource speaker**

- Rolly Angeles has a wide range of training capabilities his portfolio of technical trainings includes TPM, Reliability-Centred Maintenance Oil Analysis, Condition-Based Maintenance, P-M Analysis, Planned Maintenance, World Class Maintenance Strategies & many more
- Rolly previously worked w/ Amkor/Anam and spearheaded Amkor's Planned Maintenance Organization composed of Maintenance Managers and responsible for the dramatic reduction of breakdowns in their TPM Journey as well as RCM implementation on Facilities AHU and Sub-stations
- Nominated as Key Technical Person 1998 A BSME graduate of Mapua batch 85' and Licensed ME, Rolly as he wanted to be called provides a wide range of experience on the best maintenance practices



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### Program Proper

( 1 Day Course)

- 0745 - 0830 - **Coffee & Registration**
- 0830 - 0900 - Welcome and Introduction of resource speaker
  - Define Objective of the course
  - Discuss different modules to be covered
  - Take MMP Pre-Test
- 0915 - 1000 - **Module 1 : Breakdown Loss**
  - What constitute a Failure ?
  - Understand Primary and Secondary Failures
  - Lessons about failure
  - MTBF to measure breakdown loss
  - Take quiz on What to Include and Exclude on Failure
- 1000 - 1015 - **Morning Breaktime**
- 1015 - 1045 - **Module 2 : Set-up and Conversion Loss**
  - Set-up and conversion defined
  - Shigeo Shingo on reducing conversion time
- 1045 - 1130 - **Module 3 : Start-up Losses**
  - Infant Mortality and Random Failures
  - How PM affects start-up losses
  - How to reduce start-up losses
- 1130 - 1200 - **Module 4 : Idling and Minor Stoppages**
  - Understanding Chokotei
  - Best pillar to address Minor stoppages
  - Performing MTBA Snapshots
- 1200 - 1300 - **Lunch**
- 1300 - 1330 - **Module 5 : Design Speed Loss**
  - Speed loss defined
  - Reducing speed losses
- 1330 - 1400 - **Module 6 : Defect and Rewc**
  - Understanding chronic defects
  - Take quiz on equipment losse
- 1400 - 1430 - **Module 7 : Understanding O**
- 1430 - 1500 - **Afternoon Break**
- 1515 - 1600 - Conduct OEE Workshop
- 1600 - 1700 - Answer to OEE workshop
  - Take final OEE pre-post quiz
  - Check final pre-post quiz
- 1700 - End of seminar on OEE

