



## SEMINAR TITLE : Meaningful Measures of Performance

### 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

- As maintenance professionals we know the importance of maintenance to our organization goals and objectives. The difficulty is in translating the overall company strategy to a meaningful measure of performance.
- The old saying that "if you can't measure it, you can't manage it" is as true for performance as for anything else. Much of what is meant by performance often appears to be unmeasurable. It's OK looking at how things happened after the event & traditional measures can do this. What a manager needs is a much more dynamic, real time view of performance as it happens. People are central to this and qualities like motivation, confidence, leadership & perception are what need to be understood. Getting quantifiable results and dependable measurements is crucial if resource & time are to be used to good effect.



illuminate  
the possibilities...

Image thanks to Mobil

**w/ MEANINGFUL MEASURES OF PERFORMANCE - PART 1**

### Course Objective

- Understand the need and importance of measuring performance
- Learn to sell performance measurement as a tool for improvement
- Learn to use meaningful measures of performance to improve equipment's reliability
- Determine the right measures of performance for your industry
- Understand the different types of equipment 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, Reliability and Improvement groups, Key people who have the authority or leadership to drive the day to day process for improving their plant's reliability & performance Managers who sees continuous improvement programs as the key to industries survival



### 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

#### DAY 1

- 0745 - 0830 - Coffee & Registration
- 0830 - 0900 - Welcome and Introduction of resource speaker
- Define Objective of the course
- Discuss different modules to be covered
- 0900 - 0915 - Take MMP Pre-Test
- 0915 - 1000 - **Module 1 : Why Measure Performance ?**
- Understand the need and importance of measuring performance
- 1000 - 1015 - **Morning Breaktime**
- 1015 - 1100 - **Module 2 : Understanding Equipment Losses**
- Breakdown Loss
- Design Speed Loss
- Start-Up Loss
- Idling and Minor Stoppages
- Defect and Rework Loss
- Set-up and Adjustment Loss
- 1100 - 1130 - Take Quiz on Equipment Losses & Check
- 1130 - 1200 - **Module 3 : Understanding Overall Equipment Effectiveness**
- Components of OEE
- Variations in Calculation
- 1200 - 1300 - **Lunch**
- 1300 - 1400 - **Continue Module 3**
- 1400 - 1500 - **Workshop on OEE**
- 1500 - 1500 - **Afternoon Break**
- 1515 - 1600 - Continue Workshop and Answer OEE Workshop
- 1600 - 1700 - **Module 4: Mean Time Indicators**
- 1700 - End of Day 1

#### DAY 2

- 0800 - 0830 - Coffee
- 0830 - 1000 - **Module 5 :Understanding MTBF**
- How to compute MTBF
- Limitations of MTBF
- MTTF and MTBF
- Understanding Failure Rate
- 1000 - 1015 - **Morning Breaktime**
- 1015 - 1100 - **Module 6 :Understanding MTTR**
- How to compute MTTR
- 1100 - 1200 - **Module 7 :Understanding MTBA**
- MTBA Snapshot Steps
- Case Study : CLF Planned Maintenance Case Study on MTBA
- 1200 - 1300 - **Lunch Break**
- 1300 - 1400 - **Workshop on MTBA**
- 1400 - 1500 - **Module 8 : Introduction To Weibull Analysis**
- Principles of Weibull Analysis
- 1500 - 1515 - Afternoon Breaktime
- 1515 - 1600 - Workshop on Indices
- 1600 - 1700 - Take Post and Final Test
- Closing Remarks
- 1700 - End of Seminar

