

Practical Best Maintenance Practices –

Building a Culture of Reliability

October 24 to 26, 2018, Lopez Building, Meralco, Ortigas Ave., Pasig

Who should Attend

- Maintenance and Reliability Managers
- TPM Office, Facilitators and Coordinators
- Facilities/Utilities Managers
- Preventive/Predictive Maintenance Group
- Reliability Engineers and Managers
- Operations and Production Managers
- Top Management and Decision Makers
- Continuous Improvement Groups
- Maintenance Staff
- Plant and Facility Engineering Staff
- Rotating Equipment Engineers
- Maintenance Supervisors
- Managers at Industrial plan
- Electrical and Mechanical Personnel
- CBM and PdM Personnel
- Maintenance and Reliability Managers
- Maintenance and Technical Support Group
- Plant Asset Managers
- People in Charge of Planning and Scheduling
- People Involved in Repairs and Troubleshooting
- Head of Maintenance Organization
- People in Charge of Safety and Environment
- Maintenance Engineers
- People Involved in Reliability and Maintenance
- Reliability Engineers

About the Resource Speaker

Rolly, is a seasoned international reliability and maintenance consultant with 29 years 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, Thailand, Bangladesh, Botswana, Qatar, South Africa, and China. 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, Maintenance Management System and much more. Rolly previously worked with Amkor Technology Philippines 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 Air Handling Units and as well as their sub-station equipment. Rolly is currently working as an independent reliability and maintenance consultant. Rolly had written 2 books on maintenance which are World Class Maintenance Management – The 12 Disciplines and his recent book on Maintenance – Roadmap to Reliability a book that makes every maintenance feel proud that they belong to the maintenance function.

Seminar Package Includes:

- **Morning / Afternoon meals and Lunch**
- **Complete Handouts on the course**
- **Selected Articles on Best Practices**
- **Exercises and Quizzes Best Practices**
- **Actual Case Studies**
- **Workshop on PBMP**
- **Pre-post quiz**
- **Certificate of Attendance**

PBMP Course Objective:

- Provide a rigid and robust approach on how to select the most appropriate maintenance tasks for our assets
- Provide an understanding on practical best maintenance that can be applied to our equipment in order to improve equipment reliability
- Learn the basics and principles of the different strategies that can be applied in maintenance
- Learn why even the most effective Preventive Maintenance Structure will not prevent failures itself

EMAIL US:

Email: rollyangeles@rsareliability.com
 Email us and will send you a proposal for in-house training

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Benefits of Attending this Training:

LEARN how to make your maintenance department from a cost center to a profit center

UNDERSTAND the different maintenance indices and KPI's you can use to track equipment reliability and prolong its life

APPLY the actual application of Practical Best Maintenance Practices

AVOID the most common lubrication errors and bearing failures

UNDERSTAND what it takes to change the culture of the maintenance functions

LEARN how to control your spare parts inventory and reduced cost on MRO spare parts

UNDERSTAND the role operators play in improving equipment reliability

LEARN the 6 major losses in manufacturing equipment and how to reduce them.

UNDERSTAND the concept of both RCM and TPM and how to integrate them respectively

UNDERSTAND how to effectively perform Root Cause Analysis and how deep our probe should be

UNDERSTAND if TPM and RCM are complimentary or contradictory

FINALLY, learn how to motivate the maintenance function in order to achieve a stage of World Class Maintenance Excellence

PBMP Master Class Photos



**Practical Best Maintenance Practices Class
Mumbai, India, May 19 to 20, 2010**



**Practical Best Maintenance Practices Class
New Delhi, India, May 21 to 22, 2010**



**Practical Best Maintenance Practices Class
Chennai, India, May 24 to 25, 2010**

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Day 1

Module 1: Introduction to PBMP

- Challenges facing modern maintenance
- The truth about machinery and equipment
- Simple case study on RCA
- Difference between RCFA and other problem and analytical solving tools
- Golden Rule on conducting RCA and RCFA

Module 2: Maintenance KPI and Measurements

- Concept of reliability
- Different between MTBF and MTTF
- Understanding MTTR and MTBA
- Limitations of MTBF

Module 3: Strategies to Reduce Equipment Losses

- Different types of equipment losses
- Nature of Chronic Losses
- Breakdown loss, set-up loss, start-up losses, idling and minor stoppages, design speed loss, defect and rework losses, shutdown loss

- OEE explained

- Relationship between OEE and equipment losses
- Is achieving 85% OEE truly World Class?

Module 4: MRO Spare Parts Management

- Understand Spare Parts Management
- Steps in improving your Spare Parts Management
- Practical Tips on Spare Parts Management
- Decision on whether to stock or not to stock parts

Day 2

Module 5: Understanding TPM

- TPM basic concept
- Goals of each TPM pillars
- TPM 12 developmental step by step approach
- Key points in implementing TPM
- Lessons on TPM

Module 6: Understanding RCM

- Traditional Belief on Maintenance
- Infant, random and age-related failures
- 7 Classical Questions on RCM
- How to implement RCM
- TPM and RCM strengths
- Integrating RCM and TPM together

Module 7: Preventive and Predictive Maintenance

- Preventive Maintenance explained
- Predictive Maintenance P-F Curve

- Ultrasonic Monitoring
- Infra-red thermography

Module 8: Lubrication Management Strategy

- Understanding Tribology
- What causes oil to breakdown
- Oil Contamination Control and Awareness

Day 3

Continuation of Module 8

- Absolute and nominal filtration
- Oil Analysis Level 1 checking oil for health and its Cleanliness through a particle counter
- Adopting a Lubrication Strategy

Module 9: Understanding Bearing Failures

- Lubrication failures
- Fatigue failures
- Installation failures
- Contamination failures
- False brinelling

Module 10: Root Cause Failure Analysis

- Root Cause Analysis defined
- Difference between RCFA, RCA and Failure Analysis
- Physical, human and latent cause of the problem
- RCFA Case Study Pump Failure

Module 11: Operators Role in Maintenance

- Establishing basic equipment condition
- Why operators are important in maintenance
- Autonomous Maintenance basic concept
- Purpose of Autonomous Maintenance

Module 12: Empowering the Maintenance Workforce

- Establishing a culture of reliability
- Changing the maintenance culture
- Change starts from the man in the mirror

End of Day 3

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Testimonies and Feedback

- All I can say is that it is 100% all good point. All topics that had been discussed was very very interesting and help us to boost our morale as maintenance people. This training will help us to do our job more effective and before. From Michael Angelo Villanueva, Process Engineering Maintenance Supervisor
- All facets of maintenance were properly covered and discussed. Information s were presented along with a good visual presentation and case studies and exercises were given ample time and clarifications including real life experiences of the speaker in the maintenance world. From Nestor Valderama, Engineering Manager, Baxter Healthcare Philippines
- Insights on the different strategies on maintenance and be able to asses what’s applicable to our business. Provide emphasis on the role of operators on maintenance is clearly defined which we are now doing. RCM gave us the idea on how the maintenance interval is derived which we can use to address critical failure on critical equipment and assets. From Gem Ridual CAT Rental Store
- As operator, I’ve learned that it is important not only to operate the equipment we are handling but also to have knowledge on every part of the equipment. I learn that both operators and maintenance should have a good relationship and help them during equipment failures. From German Larinay, Water Treatment Plant Operator
- The training materials were well prepared. Trainer has a very good background on the subject. Trainer shared other related references which were not part of the score of the training. Training venue was very good. From Ben Briones, Reliability and Maintenance Manager, Air Liquide
- Very useful and relevant to implement in our industry which is a power generation. Inculcate awareness that not only maintenance but all groups both operator and maintenance are responsible in terms of equipment management. Discuss comprehensively on how to apply the right maintenance by knowing the right people with the right knowledge. From Edgar Anterola, Supervisor, Kepco Philippines
- There are maintenance strategies that can be used to make maintenance work hassle free. Maintenance is never a fire-fighting aspect. We should be looing more behind the fire. Maintenance is a shared responsibility between operators and maintenance. Take improvements slowly as things does not change within a day. From Paul Pagaduan, Test Maintenance Engineer, Austria Microsystems
- A very knowledgeable mentor that knows the content of his training. A very well prepared training hand outs and materials. I did gain knowledge and a lot of new idea from this training from a management point up to operations point. Most of all, I knew the importance of maintenance people so empowering them is also a good investment. From Ryan Mendoza, Maintenance Engineer, Austria Microsystems
- The training opens my mind on what maintenance really is all about which is something that I can be proud of. From Cris Yvonne Carmona, Maintenance Engineer, Austria Microsystems

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