

## Rolly Angeles

### Bachelor of Science In Mechanical Engineer

#### RSA Reliability and Maintenance Consultancy Firm

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**Rolly Angeles**, is a seasoned technical trainer, his portfolio of technical trainings focused on Reliability and Maintenance Management courses such as Total Productive Maintenance (TPM), Lubrication and Oil Contamination Strategy (LUB), Condition- Based Maintenance (CBM), Reliability-Centred Maintenance (RCM), Root Cause Failure Analysis (RCFA), Planned Maintenance, World Class Maintenance, Maintenance Indices and Measures and much more . . .

**Rolly** previously worked with Amkor Technology Philippines as a TPM Senior Engineer, a multi-national company engaged in the manufacture of integrated circuit products and spearheaded Planned Maintenance Organization composed of maintenance managers and engineers. He was responsible for the dramatic reduction of unplanned breakdowns in their TPM's journey as well as RCM implementation on their Facilities Air Handling units and sub-station equipments.

Last 2005, he established his own consultancy firm, RSA Reliability and Maintenance Consultancy Firm which provides a diversified lists of courses on reliability and maintenance best practices, management training, consultation and facilitation to industries. It offers industries the opportunity to uplift their people's technical competency on their maintenance to a level of "WORLD CLASS" excellence by capturing industries best practices. Currently work as a reliability consultant and conducts regular in-house trainings, consultation and facilitation on the courses that he provides on Reliability and Maintenance Best Practices.

#### **Below is a list of courses I've developed and trained industries**

#### **COURSES ON TOTAL PRODUCTIVE MAINTENANCE**

- Understanding Total Productive Maintenance - JIPM Approach
- Understanding TPM's Autonomous Maintenance Steps 1 - 3 of Jishu-Hozen (Part 1)
- Planned Maintenance - Four Phases To Zero Unplanned Breakdown Strategy
- Understanding TPM's Focused Improvement - Kobetsu-Kaizen Pillar
- Relationship Between Equipment Losses and Overall Equipment Effectiveness

#### **COURSES ON RELIABILITY AND MAINTENANCE STRATEGIES:**

- Lubrication Strategy - Understanding The Importance of Oil Contamination Control
- Reliability-Centred Maintenance for Industries (SAE JA1011)
- Optimizing Equipment's Reliability - Gearing From Reactive To Proactive Maintenance
- Understanding Condition-Based Maintenance - Total Approach To Failure Prediction & Analysis
- Root Cause Failure Analysis for Equipment – Understanding Equipment Failures
- Optimizing Preventive Maintenance Strategy
- Understanding MRO Spare Parts and Storeroom Management

#### **COURSES ON RELIABILITY AND MAINTENANCE CONCEPTS :**

- Meaningful Measure of Equipment's Performance - Understanding OEE, MTBF, MTTR, MTBA
- Basic Maintenance Concept - Gearing From Reactive to Proactive
- Maintenance Strategies Part 1 - Overview on Predictive Maintenance & Lubrication Strategy
- Maintenance Strategies Part 2 - Overview on RCFA and Basic Maintenance Concept
- World Class Maintenance Management - The 12 Disciplines
- Achieving Proactive Maintenance - A Culture of Reliability
- Basic Concept of Reliability and Maintenance

Rolly had been a successful trainer over a period of more than 15 years and provides a regular monthly Reliability and Maintenance Newsletter to his regular subscribers in his website at [www.rsareliability.com](http://www.rsareliability.com) . Also had provided related articles and materials on Root Cause Failure Analysis, Total Productive Maintenance, Proactive Maintenance and Lubrication and Oil Contamination Control.

***Rolly Angeles is one of the best trainers (World Class) I have ever met in my life. The delivery of the RCM course by him was so smooth and straight to the point.*** Besides he combined technicality with intellectualism thereby carrying even the most assumed idle time along. The definition of the different tasks in RCM caught most of my attention. The RCM Information Worksheet simplifies the course to enable an ideal team to come up with the best maintenance strategies. Although it is a challenge to convince management team that is not trained on RCM to adopt, I will still insist that RCM is the best maintenance strategy world wide now. Read more testimonies from my training at

[\*\*RSA Reliability and Maintenance Training Feedback and Testimonials\*\*](#)

Kalu Kalu

Shell Head of District Maintenance (Nigeria)

## **CAREER and ACHIEVEMENTS**

### **TYPICAL TRAINING ROLES TO DATE**

#### **ASIA IKNOWLEDGE – MALAYSIA (2010 to Present)**

- Participated as a guest speaker in their Beyond Conference 2 and 3 and upcoming maintenance conference this April 2013 at Kuala Lumpur Malaysia
- Have conducted regular public training sponsored by Asia IKnowledge, Malaysia on World Class Maintenance, Condition-Based Maintenance, Meaningful Measures of Equipment Performance (KPI's), Autonomous Maintenance, Root Cause Failure Analysis, Lubrication Strategy and TPM Planned Maintenance

#### **INTERNATIONAL BUSINESS CONFERENCE - INDIA (2008 – Present)**

- Have conducted regular public training courses sponsored by IBC different maintenance and reliability courses on World Class Maintenance, Lubrication Strategy (Tribology), Root Cause Failure Analysis, TPM Planned Maintenance, Reliability-Centred Maintenance

#### **ENERGY DEVELOPMENT CORPORATION (2011 to Present)**

- Invited as a resource speaker and have conducted several batches on World Class Maintenance, Root Cause Failure Analysis and Reliability-Centred Maintenance given to different plants at Leyte, Dumaguete and Bachman.

#### **SAFREF (SHELL) – DURBAN SOUTH AFRICA (July to August 2012)**

- Conducted training on Lubrication Strategy and Understanding Oil Contamination Control in their Shell plant at Durban, South Africa. Also provided a one day consultation on how to improve their current lubrication practices

#### **SALVO GLOBAL - SINGAPORE (June 2012)**

- Invited as a resource speaker to conduct Master Class Training on World Class Maintenance Management – The 12 Disciplines and Lubrication Strategy at Johannesburg, South Africa, mostly attended by different countries from Africa

#### **PIPAVAV – GUJARAT INDIA (January 2012)**

- Invited as a resource speaker and conducted training as well as consultation on their TPM Journey on TPM's Autonomous Maintenance and Planned Maintenance to their operations and maintenance employees.

**ENERGY DEVELOPMENT CORPORATION – PHILIPPINES (2011 to Present)**

- Invited as a resource speaker and have conducted several batches on World Class Maintenance, Root Cause Failure Analysis and Reliability-Centred Maintenance given to different plants at Leyte, Dumaguete and Bachman.

**APPROVED GROUP – MALAYSIA (June 2011)**

- Approved group is a forensic group in Malaysia and I was Invited as a resource speaker to conduct a course on Root Cause Failure Analysis and how to analyse physical causes of failure for their investigative and forensic group.

**ENERGY DEVELOPMENT CORPORATION (2011 to Present)**

Invited as a resource speaker and have conducted several batches on World Class Maintenance, Root Cause Failure Analysis and Reliability-Centred Maintenance given to different plants at Leyte, Dumaguete and Bachman

**BHARAT PETROLEUM – INDIA (2009 to 2010)**

- Invited as a resource speaker and conducted training on World Class Maintenance Management and Lubrication Strategy on their plant at Mumbai, India

**ARABIAN POWER PLANT - UAE (April 2010)**

- Provided training as well as consultation on the conduct of Reliability-Centred Maintenance on their critical systems as part of their reliability improvement strategy in their plant.

**HARIPUR POWER LIMITED - BANGLADESH (October 2009)**

- Provided training as well as consultation on the conduct of Reliability-Centred Maintenance on their critical systems in their plant.

**STERLITE INDUSTRIES – VEDANTA INDIA (2008 to Present)**

- Invited as a resource speaker and have visited their plant at Toticurin last 2008, 2010 and 2013, India and have conducted Master Class Training World Class Maintenance Management – The 12 Disciplines.

**MARCUS EVANS (2007)**

- Invited as a resource speaker on their 2<sup>nd</sup> Annual Plant Reliability and Maintenance Conference conducted last March 26 and 27, 2007 on Root Cause Failure Analysis.

**HERMANN AND CROSS LTD. NIGERIA (2007)**

- Recently conducted a Reliability-Centred Maintenance (RCM2) training last November of 2007, in conformance to the original version of the late John Moubray as well as RCM facilitation in Port Harcourt Nigeria, which was attended by Shell, Saipmen and their consultant Hermann & Cross Ltd.

**TEAM ENERGY CORPORATION. (2007 to 2011)**

- Formerly Mirant Sual Power Plant, conducted several trainings on Root Cause Failure Analysis and Total Productive Maintenance on their two Power plants in Sual and Pagbilao Philippines

**CAREER RECORD****Reliability Consultant - RSA Reliability & Maintenance Consultancy Firm (2005 – Present)**

- Established his own Reliability and Consultancy Firm which is engaged in providing in-house trainings, seminars, consultation and facilitation on related courses on Maintenance Best Practices and Continuous Improvement Methodologies offered.
- Lists of services provided includes :
  - Implementation of Total Productive Maintenance

- Implementation of Planned Maintenance Strategy for TPM
- Implementation of Autonomous Maintenance Strategy for TPM
- Implementation of a Focused Improvement Strategy for TPM
- Adopting a Lubrication Strategy and Contamination Control in your plant
- Adopting a Condition-Based Maintenance Strategy in your plant
- Facilitation of a Root Cause Failure Analysis Group
- Facilitation of a RCM or streamlined RCM to improve current Preventive Maintenance system
- Provides initial assessment of plant's maintenance structure and provide recommendations in order to improve their reliability.

### Technical Training Specialist - Lepanto Consolidated Mining Company (2002 – 2004)

- Development of **specialized technical training** modules focused on maintenance and reliability best practices exclusively for maintenance section for LCMC.
- Convince Top Management to adopt an Oil Analysis and Total Contamination Control to save on company's lubrication and spares attributed to lubrication failures
- Conducted trainings on maintenance management courses and enhance people's skills on world class maintenance techniques and strategies
- Conducted Strategic Planning for maintenance on how to achieve Proactive Maintenance
- Prepared a feasibility study on Adopting a Lubricating Strategy and Oil Analysis which was implemented as a means to save on their lubricating cost and spare parts.
- Successfully facilitated Reliability-Centred Maintenance in their milling department
- Dramatic reduction of Millings Maintenance cost from 57 million to 37 million Php from 2001 to 2003 through the application of Condition-Based Maintenance Strategy and Reliability-Centred Maintenance as documented in their 2003 LCMC Annual Report.

### Quote from Lepanto Mining Annual Report page 3:

Reduced maintenance and services costs by P20 million from an average of 57 million per year during the 1998 to 2000 to an average of 30 million per year during the 2001 to 2003 period. The reduction in maintenance costs was due to our preventive and lately our condition-based maintenance programs.

### TPM Senior Engineer - Amkor Technology Philippines (1995 – 2002)

- Responsible for the development and implementation of TPM's pillar on Planned Maintenance, Focused Improvement and Initial Flow Control and Early Equipment Management.
- Conducted trainings on the implementation Planned Maintenance Systems on different Steps/Phase and served as their internal consultant and provide guidance as well as guidelines on successfully conducting TPM's Planned Maintenance pillar of TPM.
- Conducted TPM Audits and Certification on Planned Maintenance teams as they complete each Steps/Phases of Planned Maintenance
- Experience dealing with JIPM (Japan Institute of Plant Maintenance) consultation and written full documented report on Planned Maintenance and Initial Flow Control Activities for pre-assessment requirements for JIPM Certification on TPM.
- Dramatic reduction of Unplanned Breakdown on 22 Pilot Machines for Planned Maintenance from 237 to 4 breakdowns from October 2000 to only 4 breakdowns by August 2001
- Dramatic reduction of unplanned Breakdowns on 272 Fan-Out or replicated machines from as much as 443 to 2 breakdowns from January 2001 to September 2001.
- Successfully implemented RCM on Amkor's Facilities equipment's AHU and Sub-Station. Revision in their Preventive Maintenance Schedules dramatically reduced their breakdowns. Facilities Breakdown Record from 26 to ZERO from Q1 2000 to Q3 2000.
- Amkor's TPM Office benchmarked several times by other companies in their TPM implementation. Provided regular consultation on Amkor's Site 3 on their Planned Maintenance implementation.
- Trained all Amkor's site 2 engineers on Poka-Yoke Implementation, Mistake Proofing for Zero Defects and around 300 maintenance technicians, engineers and managers on **Reliability-Centred Maintenance**.

- During my term on handling and spearheading Amkor's Planned Maintenance from 1995 to 2002 in which 12 departments included with around 600 members for site 1 and 2. All PM teams had generated around 9,272 documented improvements on their equipment's and a cost savings of around Php 5,787,370.00.
- Promoted twice on the success of Planned Maintenance & Nominated as Key Technical Person last 1998.

#### Product Engineer – Sharp Philippines Corporation (1988 – 1994)

- Responsible for the development of TV's Cinemaborg series which includes design, mock-up sample, testing, parts lists generation and pre-production qualification.
- Implemented several cost improvement measures of TV parts without affecting the quality output of the unit for better price competition on the market.
- Responsible for assisting production side on pre-production of new products on TV and Video series and conducting several non destructive test to assure both quality and integrity of the product once out of the market.
- Performs continuous study and improvement measures on existing TV and VCR components.

### EDUCATION & QUALIFICATIONS

- Passed P.R.C.'s Mechanical Engineering License Board Examination with License No. 31,648 given March 31, 1986 **1986**
- Mapua Institute of Technology (College Course) **1981 - 1985**  
Graduated with a Degree of Bachelor of Science in Mechanical Engineering
- Don Bosco Technical Institute of Makati (High-School Course) **1976 - 1980**  
Rank 2 for both technical and academic side of curriculum
- Don Bosco Technical Institute of Makati (Elementary Course) **1971 - 1975**  
Rank 2 for both technical and academic side of curriculum

### PERSONAL

Date of Birth : May 18, 1963  
 Status : Married with 3 children  
 Current Age : 44 years old  
 Religion : Roman Catholic  
 Height : 5 ft and 9 inches  
 Weight : 185 lbs  
 Hobbies : Guitar and spending time with my family and kids, reading  
 Youtube Channel : <http://www.rsareliability.com>