

Understanding Autonomous Maintenance, Operators 7 Steps to Empowerment

May 19 to 20, 2022

Training Package Includes:

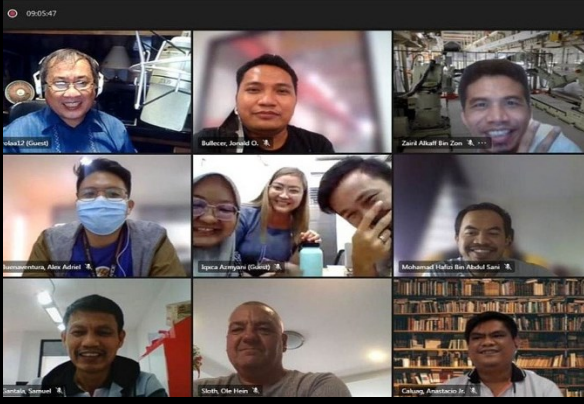
- Training Materials on Autonomous Maintenance PowerPoint (Softcopy)
- Online Certificate of Attendance
- E-book (Readable Version) on World Class Maintenance Management – The 12 Disciplines Book (314 pages)
- Lifetime Access to RSA Reliability Newsletters

Who Should Attend:

- Operators and Maintenance Managers
- Production Managers
- Production Supervisors
- Preventive Maintenance Group
- Predictive Maintenance Groups
- Reliability Engineers and Managers
- Maintenance Planners
- People in charge of Lubrication
- Operations and Production Supervisors
- Management and Decision Makers
- TPM Office and Facilitators
- Continuous Improvement Groups
- Equipment Engineers

About the Resource Speaker

Rolly, is a seasoned international reliability and maintenance consultant with 30 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, Bangladesh, Botswana, Brunei, Thailand, China 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 12 Disciplines, Oil Contamination Control, Maintenance Indices and KPI's, Maintenance Management Strategies and much more. Rolly previously worked w/ Amkor Technology Philippines, as a TPM Senior Engineer, an industry engaged in the manufacture of IC products and spearheaded their Planned Maintenance initiative compose of maintenance managers and engineers. He was also responsible for the dramatic reduction of unplanned breakdowns in their TPM Journey as well as RCM implementation on their Facilities AHU units and as well as their substation equipment. Rolly had written 9 books based on his original book on World Class Maintenance Management - The Twelve Disciplines. Each of the books Rolly wrote details a specific discipline on maintenance.



Autonomous Maintenance 7 Steps
July 29, 2021

- *Good points about this training is that we learn what is TPM, how it is run, how it will properly work in our plant, how we can have great achievement on TPM in our PIPAVAV's Shipyard Limited. Stars are many, moon is one. TPM Authors are many, but Rolly Angeles is a good one. From D. Sasanka Kumar PIPAVAV, Gujrat, India*
- *This training will facilitate in implementing of Autonomous Maintenance in our organization, PIPAVAV. In this training, we learnt that operators can work as maintenance people. Maintenance people and operators should work together. We were able to know about self-empowerment through this training. From Ajeet Singh, PIPAVAV, Gujarat, India*



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Brief Course Overview

- This course shows the importance and benefits of introducing an Autonomous Maintenance program and what it will achieve if correctly applied in the workplace.
- Autonomous Maintenance is the activities in which each worker performs daily cleaning, lubrication, inspection and parts replacement in order to establish Basic Equipment Condition
- This course tells us the importance that Autonomous Maintenance is not just the transfer of task to operators but teaching operator that their responsibility does not end from just operating the machine itself Autonomous Maintenance is changing the mindset of operators from the traditional I fix you operated to, we operators take care of our equipment together. Maintenance can only escape the vicious cycle of being reactive if operators partner with them in improving the reliability of their equipment.

AM Course Objective

- To provide an overview and awareness on the benefits that can be derived in implementing Autonomous Maintenance
- Understand the detailed step by step approach in implementing Autonomous Maintenance pillar
- To develop reliable manufacturing assets through involvement of all shop floor people in a structured and detailed step
- To develop an in house Autonomous Maintenance people that will drive the implementation of the pillar in their plant
- Understand the role of maintenance in developing their Autonomous Maintenance Pillar
- To enable operators to understand that maintenance is a shared responsibility for both the operators and maintenance function
- Understand how to empower operators through the 7 Steps on Autonomous Maintenance

Feedback

- *Autonomous Maintenance 8 pillars and 7 Steps Journey, After some touching good message given by Mr. Rolly and try to improve how to understood. Mr. Rolly teaching method was very nice and all step teaching attend leave a good message. From Jitendra K. PIPAVAV, Gujarat, India*
- *I learnt very much because of this training. Production and maintenance are not each other's enemy or customer but they are all partner. We will make constant changes in production and maintenance in improving the skills of operators by training. We will work as a team and make changes in our organization. From Vishal Bambhanider, PIPAVAV, Gujarat, India*
- *Nicely presented about Autonomous Maintenance, useful for daily activities. Have to reduce machine and equipment downtime. Also how we can take our company towards zero breakdown. Reduction of machine maintenance cost and get good knowledge about lubrication and maintenance. From Amish Raval, PIPAVAV, Gujarat, India*



0919-451-1708
0920-482-8225



rollyangeles@rsareliability.com
marievic_angeles@rsareliability.com



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Autonomous Maintenance Day 1

Module 1: AM Overview

- Traditional culture of operators, operate, you fix syndrome
- Concept of Autonomous Maintenance
- Purpose and Goal of Autonomous Maintenance
- Establishing Basic Equip Condition
- Skills operators need
- Why Autonomous Maintenance is important
- Why many industries failed in their Autonomous Maintenance implementation and how to overcome it.

Module 2: Step 0 : AM7 Preparatory Stage

- Understanding Basic Machine Function
- Planned Maintenance guidance for Autonomous Maintenance activities
- 7 Types of Abnormalities
- Step 0 Detailed Roadmap of Activities

Morning Break / Meals

Module 3: Step 1 : Perform Initial Cleaning

- Goal of Step 1
- Importance of cleaning
- Step 1 Start-up activities
- How to Conduct Initial Cleaning
- Step 1 flow of activities
- Step 1 Detailed Roadmap of Activities
- How to Fan-out activities for Step 1

Lunch Break

Module 4: Visual Control in The Workplace

- Samples of Visual Control

Module 5: Step 2: Address Sources of Contamination

- Improving Hard to access areas
- Different types of Contamination
- Step 2 Flow of Activities
- Step 2 Detailed Roadmap of Activities

Afternoon Break / Meal

Module 6 - Step 3: Establish Equipment Standards

- Importance of cleaning, inspection and lub Standards
- Lubrication, Inspection, bolting and Cleaning Standards
- Step 3 flow of activities and Roadmap of Activities

Autonomous Maintenance Day 2

- Module 7 : Basics of Lubrication & Contamination Control

- Basics of lubrication and oil contamination control
- Basic properties of lubricating oil
- Understand how oil is contaminated
- What oil contamination can do?
- Contamination Control Awareness

Morning Break / Meals

Module 8: Step 4 : Develop General Equipment Inspection Procedures

- Basic Concept of Step 4
- Trainings Operators Need
- Role of Planned Maintenance in Step 4
- Step 4 flow chart of activities
- Step 4 detailed roadmap of activities

Module 9 : Step 5 : Conduct General Equipment Inspection Autonomously

- Finalize Autonomous Maintenance inspection process
- Consolidate AM and PM maintenance standards
- Step 5 detailed roadmap of activities

Afternoon Break / Meal

Module 10 : Step 6: Manage Systematic Autonomous Maintenance in their Workplace

- Basic Concept of Step 6
- 5 Criteria for Quality Assurance
- Step 6 flow chart of activities
- Step 6 Roadmap of activities

Module 12 - Step 7 : Achieve Empowered Autonomous Maintenance in the Workforce

- Achieving an empowered workforce
- Workshop on Autonomous Maintenance
- Reflections on AM
- Take final IQ Quiz on AM
- Closing Remarks

End of Seminar



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Testimonies and Feedback:

- The training is good for the operator because it reduces a lot of downtime and it enables the operator to do his/her job well done and sees the problem before it occurs. Also the operators and maintenance teams up and they join hands together to have a one solid team and provide good results in the future. From Mooketsi Mpebe, Operations, Botash
- This bought to light the role and importance of lubricants in equipment. The use of oil analysis to determine machine failure. Correct and better filtration techniques. Importance of having our own oil analysis facility and its benefits. From Knomotso Mopipi
- It improved my understanding and be able to work together with maintenance personnel to prevent continuous breakdown of equipment. From Thato Nchenje
- I learned a lot of things that I did not know about since this was my first training to attend. This will bring change to our company if we people, the employees and the management change and be a good company with less breakdowns. This will show our management team the good and bad aspects that need to be fixed and change even though this is a big decision to do but I believe that Autonomous Maintenance can only work if we forget about how much years and money it will take vs cost. But if we want to change Botash will be a better company in the world. From Otang Sibawela
- Will improve the downtime of the equipment after the operator has been trained and empowered to look after the equipment. We need to start as soon as possible. From Samir Bandyo Padhyar, Power Plant, India
- This training, I like it because it has improve me on the plant. How to save the equipment life span and in cleaning, checking, lubricating, tightening, operation contamination sources like gases and liquids etc., so I need another step on this course so that I can improve again the plant availability as well. From Rebagoho Gaatshameke
- Operation will share the responsibility on the machine. The relationship between operation will improve, hence less downtime and breakdowns. Less cost since the operator will attend the problem early. Create new departments which will monitor the plat machinery. From Brown Gabosebiwe
- Good relationship between workers. Empowers the operators on how to take good care of the equipment in our plant. From Samson L. Plant Operator, Botash Ash
- Autonomous Maintenance can be good in our equipment or our plant in terms of time delaying of fitters on maintenance when they have worked off. It can also give as a knowledge about how important is our equipment and how to protect it in a safer way in terms of repairing the equipment. To develop skill in operation, build team work in both maintenance and operation strongly to develop operators to be independent on his self to do their jobs. From Olladi M. Salt Plant , Plant Attendant, Botash Ash
- It improves the operator to understand fully the equipment that they are running and in terms of design , structure and operation. It also reinforces operation, maintenance relation in a positive way. Operation and maintenance should be in a harmonious relation in regards to the plant running and maintenance. From Gaone Bogopa, Plant Operator, Botash Ash



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Training Investment Costs:

- The cost of this AM7 training is @ PHP 15,500.00 per head
- Online Training Platform will either be Zoom or Ms Teams.

If your company is **NON-VAT** send us your supporting documents.

Payment Procedure and Policy:

- Since this is an Online training, we accept bank or wire transfer or cheque payments. For check payment kindly pay to RSA Reliability and Maintenance Consultancy Firm. Do not shortcut my company name to avoid problems with the bank..
- Official Receipt will be provided after issuance of the complete payment together with BIR form 2307 for Philippine clients only.
- Payment should be done during the day of the training. If this is not possible, provide us a clear date on when we can get the payment.
- 10% Tax can be deducted from the total cost of training provided industry joining the training to provide BIR form 2307 together with the payment

100% Money Back Guarantee



If for any reasons you were not happy or satisfied with the outcome of the training. Our small firm offers you **Unconditional 100% Payment Back** and you keep the WCM Book and all the materials provided during the training provided payment had been received during the registration period.

Cancellation, Postponement Policy

- For delegates who will not complete the duration of the training, seminar and workshop, RSA Reliability and Maintenance Consultancy Firm will offer no refunds regarding this matter. Certificates of attendance will only be provided to those delegates that will complete the whole training.
- In the event that the seminar will be cancelled as a result of unforeseen events such as Acts of God or blackouts or problems on internet connectivity. We shall resume the training the following day or we shall send you an email on the date that the training will be resumed.
- In case of a low turn out of delegates for this event, RSA Reliability and Maintenance Consultancy Firm reserves the right to cancel the event. An email will be sent to concerned parties regarding the cancellation.
- In the event you would like to cancel your participation in this seminar, kindly send us an email one week before the event is due. If you have made an advance payment and your delegates did not attend and have not informed us one week before the event, you will be charged with the full amount of the training fee.
- In case the delegate register for this event will not make it on this event, kindly notify us through email regarding the changes in the name of the delegates.

How To Register for this Event:

Step 1: Send us an email on the following:

- Full Name of Delegates: (FN, MI, LN)
- Email of participating delegates
- Position or Designation / Department
- Name of Industry
- Type of Industry
- How is payment to be made Cash or Check
- Is your industry VAT or NON-VAT

Step 2: Once we have confirmed the names of those you will send, we will provide a confirmation email. Strictly No last minute registration will be allowed . We will be using MS Teams as the online platform.

