



TRAINING PROGRAM ON
**ADVANCE
MAINTENANCE
STRATEGY**



ABOUT ARRELIC TRAINING INSTITUTE

Arrelic Institute is focused to equip both industry professionals and college graduates with the skills and knowledge required for bridging the desire state of workforce which industry needs to compete globally.

Arrelic Institute provides over 75 different type of customized training programs in the field of Reliability Engineering, Asset Management, Best Practice, Operation & Maintenance, Predictive Maintenance, NDT, Predictive Analytics, Quality, Risk & Safety.

Arrelic Institute conducts public trainings and workshops in 38 locations across India and 10+ International locations. We are working for large corporate house from 15 different types of industries ranging from Airlines, Automobiles, Cement, Defence Manufacturing, FMCG, Glass, Marine, Metals, Mining, Oil & Gas, Power, Pulp & Paper, Facility Management and Fertilizer.

ARRELIC INSTITUTE: AT A GLANCE



www.arrelic.com/offerings/training-and-development

ARRELIC AWARDS & RECOGNITIONS

NASSCOM®
TOP5

Won the Top 5 Startups in eastern India in Thieve 30 by NASSCOM



Selected for GES – 2017, Hyderabad and showcased among top 100 Start-ups from India.



TOP50
Emerged as one of the top 40 startups in #Smartfifty' – a search for solutions to transform India



Top 24 Start-ups selected over 1850 startups across India By CNBC.



Selected for NPC – Bangalore and NPC – Kolkata for Product showcase.



Product showcased in TIECON – 2017 and selected through Govt. Of Odisha.

#startupindia

Startup India Recognize



STARTUP ODISHA recognised.



Ignite Innovate Incubate

BIRAC finalist in SPARCH - 2017

web summit
LISBON, NOVEMBER 6-9, 2017

Selected for Web summit - Lisbon



Selected for Hello tomorrow, Paris Summit.



Selected and presented in 1000 open startups.



ABOUT THE TRAINING COURSE

ADVANCE MAINTENANCE STRATEGY

To survive in today's world of 'lean and mean' operations, we cannot wait for breakdowns. As a matter of fact, we should make responding to breakdowns the exception in our daily workload, not the norm. A successful and effective maintenance operation has to break away from the 'fix it when it breaks' mentality. The ultimate goal of the maintenance department should be to 'stop' things from breaking, increase assets availability and reliability and do so with the lowest possible cost. This has certainly put an immense pressure on the maintenance department management team. In this course, various best practices will be presented that deliver the management objectives.

Leading industrial organizations are evolving away from reactive ("fix-it-when-it-breaks") management into predictive, productive management ("anticipating, planning, and fix-it-before-it-breaks"). This evolution requires well-planned and executed actions on several fronts.

Arrelic's Maintenance Management training course is focused on comprehensively structuring the maintenance management environment. These key tools can be used to ensure the core disciplines are maintained, drive improvement, identify best practices, and assist with the formulation of strategies.

key elements of maintenance management strategy:

- ❖ Maintenance organisation
- ❖ Failure management programme development
- ❖ Work planning, scheduling and control
- ❖ Decision models
- ❖ Maintenance auditing and performance measurement
- ❖ Continuous improvement, and other techniques required to implement a world-class maintenance practice.





LEARNING OBJECTIVES & KEY BENEFITS OF ATTENDING THE WORKSHOP

By attending this technical training on “ADVANCE MAINTENANCE STRATEGY” delegates will be able learn and deliver the following things:

- ✓ Identify planning best practices and key elements for taking action on them
- ✓ Understand how world-class organizations solve common planning problems
- ✓ Evaluate your practices compared to those of others
- ✓ Improve the use of your information and communication tools
- ✓ Improve productivity through use of better, more timely information
- ✓ Create and preserve lead-time in work management and use it for planning and scheduling resources
- ✓ Improve consistency and reliability of asset information
- ✓ Optimize preventive and predictive maintenance strategies
- ✓ Audit your maintenance operations
- ✓ Use the results to develop and improvement strategy
- ✓ Establish Auditing and Performance Indicators as a key element of the maintenance strategy

The Advanced Maintenance Management training course will impart an understanding of how such techniques can be applied as part of a broad systematic approach to proactively managing and improving maintenance.

WHO SHOULD ATTEND ?

Successful Advanced Maintenance Strategy Program require the disciplined application of proven processes and interdepartmental partnerships. It is important for departments that are influenced and impacted by the processes to understand the processes. This training course is suitable to a wide range of professionals involved in the area of Advanced Maintenance Management, but will greatly benefit:

- ✓ **All professionals involved in Maintenance Management**
- ✓ **Professionals involved in work planning & control**
- ✓ **Maintenance supervisors**
- ✓ **Maintenance engineers**
- ✓ **Maintenance team leaders and managers**
- ✓ **Operations team leaders and managers**





INDUSTRIES THAT CONCERN ABOUT

LOW PRODUCTIVITY



Conventional use of time-based approach for maintenance does not take into consideration the way assets are being utilized, their current condition and real world operating conditions.

HIGH DOWNTIME



Failure to curb unplanned downtime and lack of control over value chain processes lead to high costs, inefficiencies and poor compliance. These severely impacts the profit and industrial growth.

INADEQUATE ASSESS CONTROL



Industries lack the ability to interpret assets data and because of unavailability of proper predictive methods they are unable to predict equipment failures which leads to unplanned downtime.

HIGH MAINTENANCE COST



Increased competition, pressure to grow revenue & profit, tighter regulations, scarcity of raw material, fluctuation demand and obsolete technologies have impacted the way industries are being operated.



COURSE OUTLINE

DAY - 1

MAINTENANCE MANAGEMENT STRATEGY

- ✓ Maintenance in the Business Process
- ✓ Evolution in Maintenance Management
- ✓ The Maintenance Management Environment and the need for improvement
- ✓ An overview of various approaches to maintenance improvement
- ✓ World-Class Maintenance Management
- ✓ Structure and content of Maintenance Management Strategy

MAINTENANCE PLAN: DEFINE THE WORKLOAD

- ✓ Failure Modes and Effects Analysis (FMEA)
- ✓ Risk Priority Number
- ✓ The Criticality Matrix
- ✓ Failure Management Policies
- ✓ The application of RCM in the Development of Failure Management Policies
- ✓ Implementing Failure Management Policies
- ✓ Corrective Maintenance Planning
- ✓ Maintenance Logistics Planning
- ✓ Maintenance Task Detail Planning
- ✓ Maintenance Work Estimating

REVIEW & Q/A

DAY - 2

MAINTENANCE MANAGEMENT SYSTEMS

- ✓ Maintenance Work Flow
- ✓ Maintenance Work Prioritisation
- ✓ Notifications
- ✓ Weekly Master Schedule
- ✓ Backlog Management

MAINTENANCE AUDITING AND IMPROVEMENT

- ✓ Introduction to Maintenance Auditing and Benchmarking
- ✓ The Maintenance Auditing Process
- ✓ Maintenance Auditing Methodology
- ✓ Conducting a Maintenance Audit
- ✓ Interpreting Audit Results
- ✓ Using Auditing and Benchmarking to drive improvement

PERFORMANCE INDICATORS AND MANAGEMENT REPORTING

- ✓ Managing and Measuring Progress to Excellence
- ✓ Information and Control
- ✓ Management Levels and Information
- ✓ Maintenance Performance Indicators
- ✓ Management Reports
- ✓ Continuous Improvement in Maintenance

COURSE REVIEW

POST ASSESSMENT

PROGRAM SCHEDULE

09:00 -10:30
10:30 -11:00
11:00 -12:30
12:30 -13:30

Morning Session 1
Refreshments & Networking Break
Morning Session 2
Lunch

13:30 -15:00
15:00 -15:30
15:30 -17:00
17:00 -17:30

Afternoon Session 1
Refreshments & Networking Break
Afternoon Session 2
Day review & Q/A

WORLD CLASS TRAINERS



**DR. TARAPADA
PYNE**
Ph.D.

**(Reliability + Management),
M. Tech (Mechanical)
Chartered Engineer,**

**Experience: 37+
Training Hours Completed: 500+
Arrelic's Trainer Rating : 9.68**

DOMAIN KNOWLEDGE:

Mechanical / Reliability Engineering / CBM/ NDTs

Reliability Centered Maintenance, Reliability Analytics, RGA, RBD, Weibull, Failure Analysis, Defect elimination, Failure Mechanism, RCFA, FMECA, FTA, Condition Monitoring Tools, Vibration Monitoring, Lubricant Analysis, Thermal Imaging, Motor Current Signature Analysis, Non-Destructive Techniques

Manufacturing Excellence & Asset Management

Asset Strategy, Total Productive Maintenance, OEE, 5S, Value Engineering, Lean Manufacturing, Six Sigma, PMO, BSC, KPIs, Knowledge Management, Change Management initiatives, Asset Performance Management, Integrity Management, Asset Life Assessment/ Asset Condition Management, Exposure in ISO 55000, Energy Management, Energy Audits, Energy Monitoring Tools

**MR. DEEPAK
KUMAR
SAHOO,
CRL, CMRP**



**Master in Reliability Engineering
PG in Engineering Management
B. Tech in Mechanical Engineering**

**Experience: 09+
Training Hours Completed: 300+
Arrelic's Trainer Rating : 9.65**

DOMAIN EXPERTISE:

Operational Excellence:

Total Productive Maintenance, Lean Manufacturing, Six Sigma, Balance Score Card, BCG Matrix, Value Stream Mapping, Loss Cost Matrix, KAIZEN, SMED, KMI/KPI/KAI Setup, Maintenance Optimization Strategy, Statistical Process Control, EBITDA Growth Analysis, OEE/TEEP Improvement and GAP Analysis.

Asset Management:

Acquainted with PAS - 55, ISO - 55000 standards, Asset Performance Management Modules, Integrating Asset Performance Management with other Management Initiatives, Asset Management Landscape.

Reliability Engineering:

Reliability Centered Maintenance, CBM/PdM Tools- Vibration Analysis, IR - Thermography, Product life Cycle, FMEA, FTA, Reliability Modelling, Reliability Block Diagram, Reliability Prediction, Reliability Testing - ALT, HALT, PRAT, Reliability Growth Analysis, Weibull Analysis, FRACAS, Defect Elimination.



DATE & LOCATION



HOTEL BABYLON INN

Jail Road Devendra Nagar, Raipur 492001, India

25-26 May, 2018

Raipur, India

REGISTRATION, BOOKING & PAYMENT

TERMS & CONDITIONS

PAYMENT POLICY:

Payment is due in full at the time of registration and it includes lunches, refreshments and detailed conference materials. Your registration will not be confirmed until payment is received and may be subjected to cancellation.

CANCELLATION & SUBSTITUTIONS:

You may substitute delegate at any time. Arrelic does not provide refunds for cancellations. For cancellations received in writing more than seven (7) days prior to the conference, you will receive a 100% credit to be used at another Arrelic conference for up to one year from the date of issuance. For cancellations received seven (7) days or less prior to an event (including day 7), **No** credits will be issued. In a scenario that Arrelic cancels an event, delegate payment at the date of cancellation will be credited to a future Arrelic event. This credit will be available for up to one year from the date of issuance. In a scenario that Arrelic postpones an event, delegate payment at the postponement date will be credited towards the rescheduled date. If the delegate is unable to attend the rescheduled event, the delegate will receive a 100% credit representing payments made towards a future Arrelic event. This credit will be available for up to one year from the date of issuance. No refunds will be available for cancellations or postponements. Arrelic is not responsible for any loss or damage as a result of a substitution, alteration or cancellation/postponement of an event. Arrelic shall assume no liability whatsoever in the event that conference is cancelled, rescheduled or postponed due to a fortuitous event, act of God, unforeseen occurrence or any other event that renders performance of this conference impracticable or impossible. For purposes of this clause, a fortuitous event may include, but not limited to: war, fire, labour strike, extreme weather or other emergencies.

PROGRAM CHANGES POLICY:

Please note that speakers and topics are confirmed at the time of publishing; however, circumstances beyond the control of the organizers may necessitate substitutions, alterations or cancellations of the speakers and/or topics. As such, Arrelic reserves the right to alter or modify the advertised speakers and/or topics if necessary. Any substitutions or alterations will be updated on our web page as soon as possible.

DETAILS:

Please email our Database Manager at training@arrelic.com and inform him/her of any incorrect details which will be amended accordingly.

PAYMENT METHOD

CREDIT/DEBIT/ ONLINE PAYMENT LINK:

<https://pmny.in/vIcL2k5us9Xp>

BANK TRANSFER:

ACCOUNT NAME: ARRELIC RELIABILITY PRIVATE LIMITED
A/C NUMBER: 006105021542
IFSC CODE: ICIC0000061
RTGS CODE: ICIC0000061
MICR CODE: 751229002
BANK: ICICI Bank Limited
BRANCH: Bhubaneswar Main Branch, Odisha, India

PRECOURSE PREPARATION

A pre-workshop survey is forwarded to each delegate before the course initiates and the results are analysed by the training team prior to the event. This allows us to focus on more customisation of the training materials for better understanding.

REGISTRATION

<http://bit.ly/2u1ChrA>



Scan me

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TRAINING PRICES

COURSE NAME:

Advanced Maintenance Strategy

COURSE CODE: 6210

TRAINING FEE: INR 25,000/-

GROUP REGISTRATION:

4 Delegates = INR 90,000/-

PLEASE NOTE:

- Lunch, Breakfast is included in the training fees. Training kit contains pen drives, pen, Notebook and paper bags.
- Certificate will be awarded to each delegates after successfully completed the post assessment with minimum 70%.
- Accommodation and Travel costs are not included in the course fees.