

COURSE CODE – 1320



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RELIABILITY CENTERED MAINTENANCE RCM - OVERVIEW



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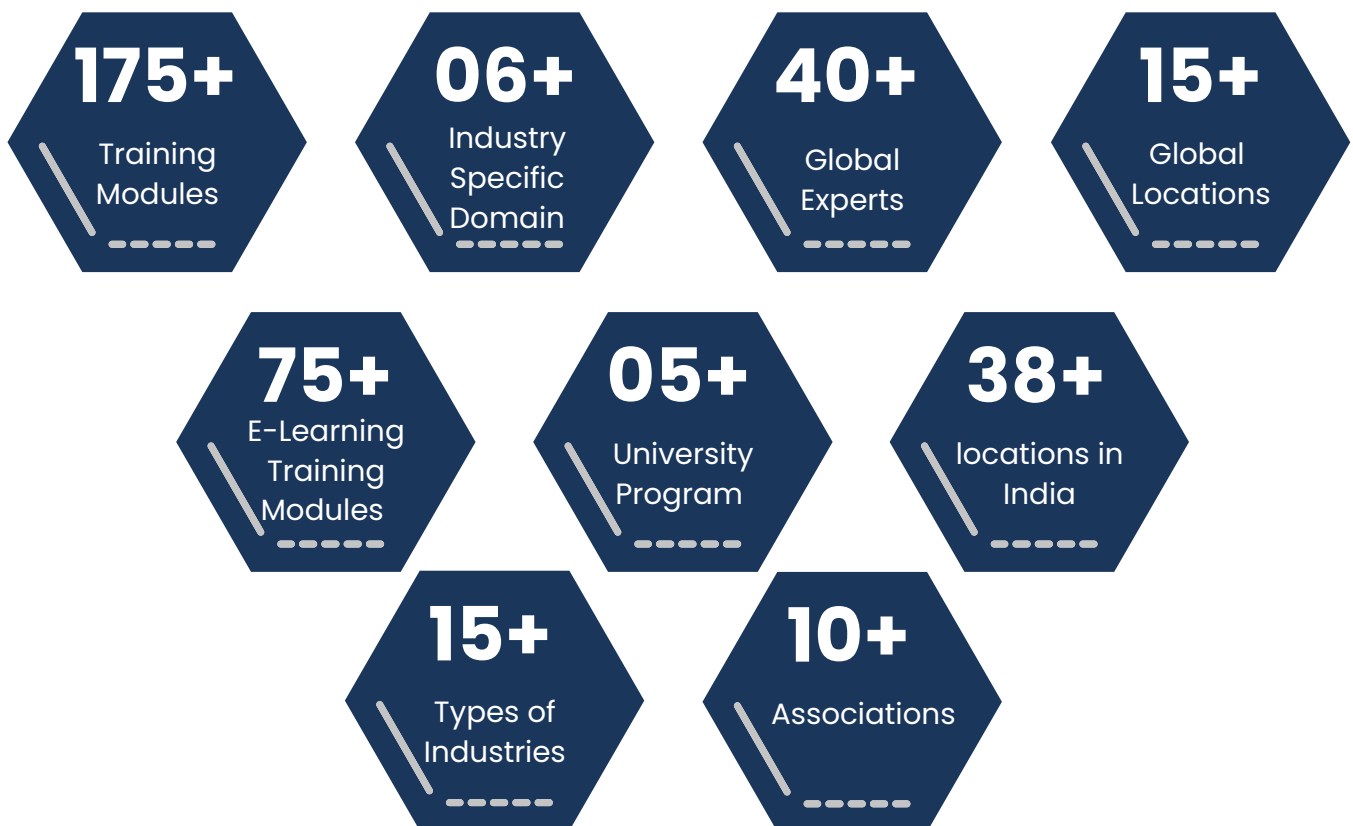
PUBLIC
TRAINING

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



ARRELIC

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PARTICIPANTS

FROM DIFFERENT COUNTRIES



RCM - OVERVIEW

RUN THIS COURSE IN-HOUSE

Self-paced E-Learning



Live Virtual



In-House



Public



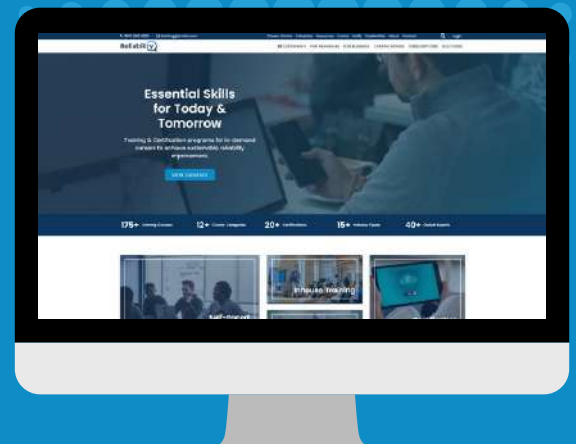
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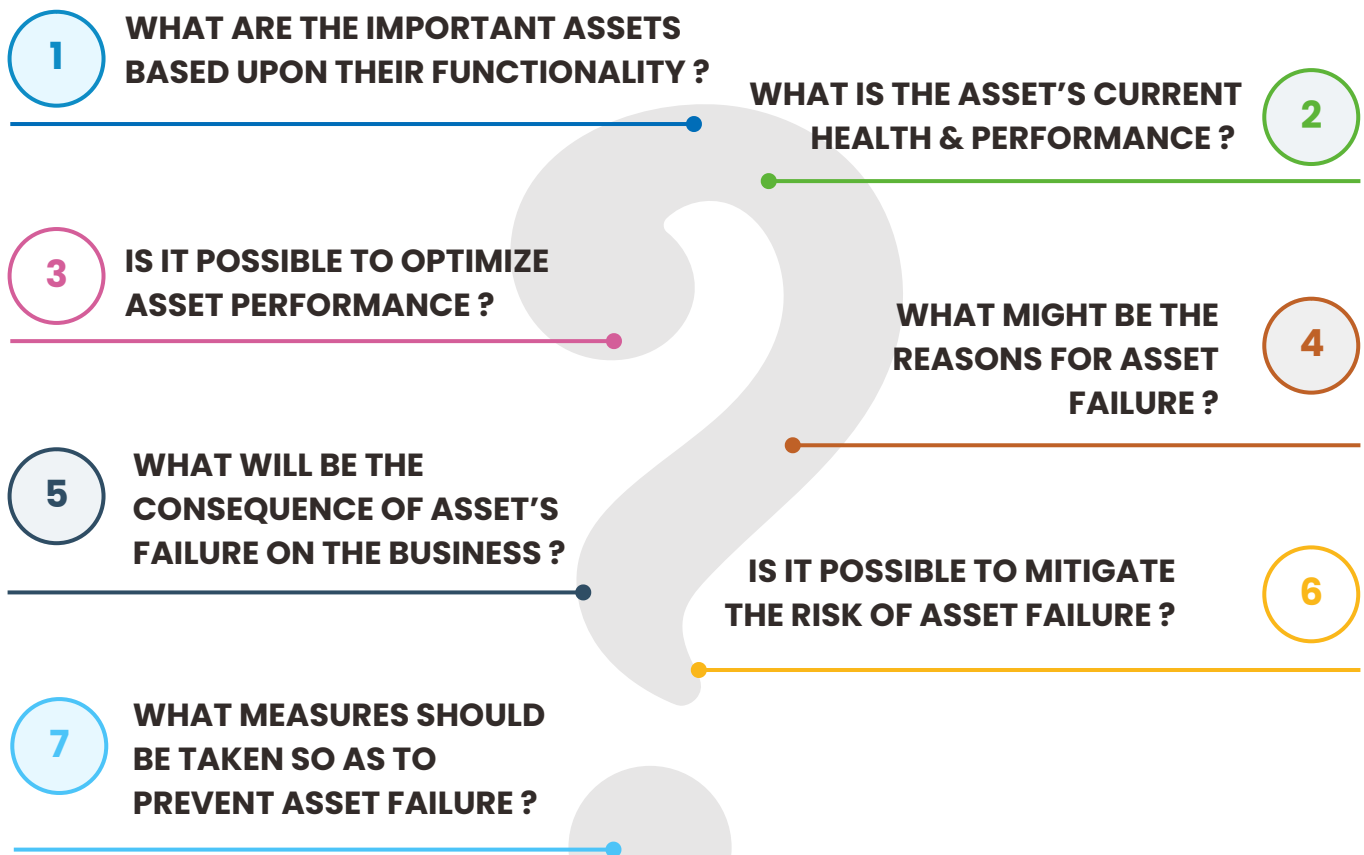
AI Based Virtual E-Learning **LMS** Platform for your Business

Reliability  Platform
 From Arrelic



IMPROVING PLANT RELIABILITY THROUGH RCM

7 Questions of RCM



ABOUT

TRAINING COURSE

RCM is the second generation of the maintenance technique that was developed and applied over the past thirty years in the most demanding maintenance arena -- civil aviation. The development of RCM while aviation shifted from the DC 8 to the DC 10, a far more complex aircraft, allowed items subject to overhaul to drop from 339 to 7, while reliability and safety increased 240%. Its numerous applications over the past three decades in all major industries prove it to be the most advanced and effective maintenance management method.

With the rapid improvement of equipment technologies, varieties and the number of physical assets, higher expectations of the management for increased asset utilization combined with several internal and external challenges, Plant maintenance as a niche discipline has evolved with great expertise in the past twenty years.

In this operating scenario, the demands placed on the maintenance team has also increases manifold times for ensuring smooth functioning of the Equipment/ Machineries. Newer techniques, tools and methodologies need to be integrated along with the daily maintenance practices.

The three-day (24 hours) Reliability Centered Maintenance (RCM) – Overview course will focus on the

- RCM process flow,
- Differences in RCM approach,
- Importance of data structure and content,
- Identifying and Categorizing Assets,
- Criticality and FMECA approach in RCM
- Developing an RCM analysis as well as the implications of making the strategy work,
- Conducting a task comparison.



LEARNING OBJECTIVES & KEY BENEFITS

By attending this technical training on “Reliability Centered Maintenance (RCM) - Overview” delegates will be able learn and deliver the following things.

- Deliver the higher maintenance performance that a management of any company want.
- It identify a clear approach to reliability improvement for both fixed plant and moving equipment.
- Auditing the operational and maintenance performance for improvement opportunities
- Deeper understanding of the theory, processes, and procedures needed to supervise, implement and perform RCM analysis.
- Topics and knowledge for the more advanced RCM analyst with experience.
- Examination of RCM Case studies to address implementation and integration issues.
- An understanding of RCM’s role within asset management.
- Increase your knowledge to plan, design and development of RCM analyses, workshops, plans and program

WHO SHOULD ATTEND ?

Successful Reliability Centered Maintenance programs 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.

- Asset Manager
- Business Excellence Manager
- Plant Manager
- Maintenance Manager
- Maintenance Engineer
- Maintenance Planner
- Maintenance Supervisor
- Reliability Manager
- Reliability Engineer
- Production Manager
- Operation Engineer
- Production Supervisor



RCM

PROCESS

What is RCM?

RCM is a process to ensure that assets continue to meet their user requirements in their present operating context. It applies to any equipment where there is a need to realize maximum operating reliability at the lowest cost. It is actually a guiding set of principles for the management of physical assets.

BASIC PROCESS OF RCM

Although there is a great deal of variation in the application of RCM, most procedures include some or all of the following steps.

Prepare for the Analysis

As with almost any project, some preliminary work will be required to prepare for the RCM analysis. Some important up-front activities include assembling an appropriate cross-functional team, making sure that all members of the analysis team understand and accept the ground rules and conditions of the analysis (e.g., scope of the analysis, definition of "failure," etc.), gathering and reviewing relevant documentation, etc.

Select the Equipment to Be Analyzed

Because RCM analysis requires an investment of time and resources, the organization may wish to focus analysis resources on selected pieces of equipment, based on safety, legal, economic and other considerations. Selection Questions and Criticality Factors are two methods of equipment selection that are commonly employed.

- The Selection Questions method consists of a set of Yes/No questions that are designed to identify whether RCM analysis is indicated for a particular piece of equipment.
- The Criticality Factors method consists of a set of factors designed to evaluate the criticality of the equipment in terms of safety, maintenance, operations, environmental impact, quality control, etc. Each factor is rated according to a pre-defined scale (e.g., 1 to 5 or 1 to 10) where higher ratings indicate higher criticality. The equipment's criticality value can then be used as a ranking and/or as a threshold.
- Other methods, such as Pareto analysis of equipment based on downtime, unreliability or other relevant metrics, may also be applied. Whichever method (or combination of methods) is selected, the goal is to focus RCM analysis resources on the equipment that will provide the maximum benefit to the organization in terms of safety, legal, operational, economic and related priorities.

RCM

PROCESS

Identify Functions and Potential Functional Failures

One of the primary tenets of the Reliability Centered Maintenance approach is that maintenance activities should be focused toward preserving equipment functionality. Therefore, it follows that the first step in analyzing a particular piece of equipment is to identify the function(s) it is intended to perform. Many RCM references recommend including specific performance requirements in function descriptions, which will help to specifically identify functional failures. Functional failures describe ways that the equipment may fail to perform its intended functions.

Identify and Evaluate (Categorize) the Effects of Failure

Identifying and evaluating the effects of failure will help the team to prioritize and choose the appropriate maintenance strategy to address a potential failure. Many RCM references contain logic diagrams that can be used to evaluate and categorize the effects of failure. These logic structures often differentiate evident vs. hidden effects and whether the issue has safety, environmental, operational and economic consequences.

Identify Causes of Failure

The cause of failure (sometimes also called failure mode) represents the specific cause of the functional failure at the actionable level (i.e., the level at which it will be possible to apply a maintenance strategy to address the potential failure). This determination is based on engineering judgment and relies on the team's experience and skill with the RCM analysis process.

Select Maintenance Tasks

Once you have identified the functions that equipment is intended to perform, the ways that it might fail to perform those intended functions and evaluated the consequences of these failures; the next step is to define the appropriate maintenance strategy for the equipment. The RCM analysis team's decision of which strategy (or strategies) to employ for each potential failure may be based on judgment/experience, a pre-defined logic diagram (connected to the failure effect categorization), cost comparisons or some combination of factors.

Maintenance Packaging

Once the appropriate schedule maintenance tasks have been identified, the final step is to package them into a workable maintenance plan. This may involve choosing time intervals at which groups of tasks can be carried out most effectively and efficiently.

FOCUS ON 5 PILLARS



Business & Management

- Create/Administer Strategic Plan
- Communicate with stakeholders
- Measure Performance
- Manage Environmental Health-safety risk
- Manage organizational plant

Manufacturing Process Reliability

- Apply process improvement techniques
- Manage effects of change to processes and equipment
- Maintain processes in accordance with applicable standards and specifications

Equipment Reliability

- Determine equipment reliability expectations
- Identify improvement opportunities
- Establish strategic plan to assure reliability of existing and new equipment
- Cost-justify selected plans and implement

Organisation & Leadership

- Determine organizational requirements and analyze capability
- Develop organizational structure
- Develop personnel
- Lead and manage people

Work Management

- Develop work plans and schedule work
- Document procedure and maintain historical records
- Plan capital projects
- Use information technology

RCM (OVERVIEW)

COURSE OUTLINE

COURSE MODULE

Introduction & RCM Concept

Introduction
Pre-Assessment
Definition of modern maintenance management, Key terms and definitions, Maintenance Managers / Supervisors roles, Objectives Developing & aligning maintenance vision and mission to corporate business objective

Maintenance Strategy

Run to Fail (RTF) approach, Time based maintenance (TBM) / Predictive Maintenance approach, Condition -based maintenance (CBM) approach, Fault - finding maintenance (FFM) approach

RCM Process Flow

Introduction , Approach and Methodology for how to describe the RCM process flow

Data Structure & Content

Their Implications with any kind of strategy work you do

Identifying & Categorizing

Introduction , Approach , Methodology to recognize and categorize assets

Criticality Approach

Probability of Failure, Consequences of Failure , Pareto Analysis, Quantitative Approach of Criticality Analysis

Cost of failure

Understanding of PF Curve, Cost of failure, Predicting failures, RCM program development

COURSE MODULE

FMECA Approach

Defining Functions, Functions of an asset, Defining Failure modes, Effects of failure modes, Examples of FMECA Approach

RCM Analysis

Introduction , Methodology , Examples.

Making Strategy Work

How RCM is tied to strategic planning and decision planning Asset Management planning

Reliability Design

Reliability Block Diagram The Bathtub curve Asset Life Cycle cost

Benchmarking in Maintenance

Managing Performance Leading Indicators Lagging Indicators Best Practice in Maintenance Benchmarking in RCM

CBM/PdM Technologies

Basis of Predictive Maintenance, PdM tools such as Vibration Analysis, IR- Thermography Oil Analysis, Wear Particle Analysis Mechanical Ultrasound, Motor Circuit Signature Analysis, Non Destructive Testing (NDT), Visual Inspection technologies.

Asset Life Assessment (ALA)

ALA Process (various levels), Process flow, Key tasks, Remaining Life Assessment (RLA), ALA Levels.

ARRELIC CERTIFICATION

- A Certificate of Completion will be awarded to those delegates who attend the entire duration of the webinar / training course.
- Verify your certificate: reliabilityq.com/verify

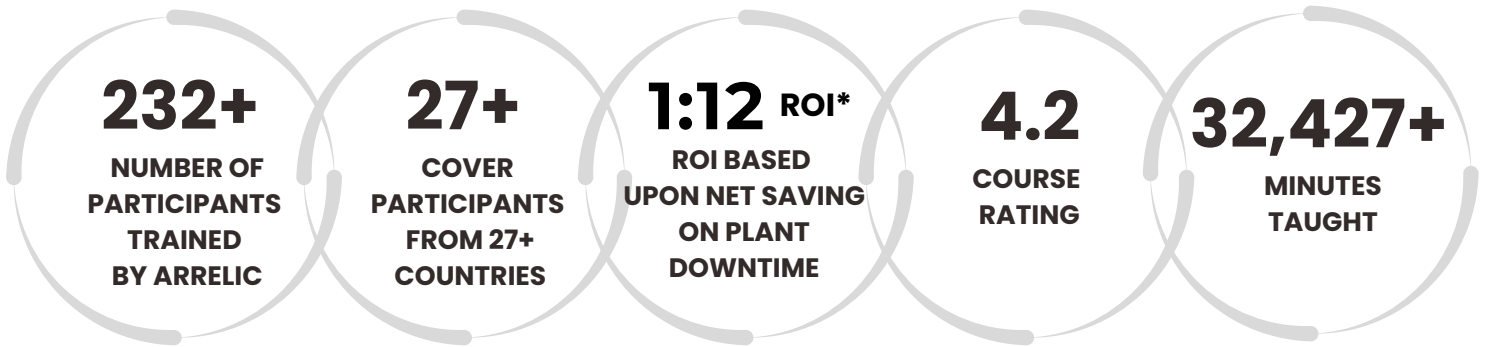


Total credit hours will be 16 hours which can be used in full time or distance mode university programs such as PG Diploma in Asset Reliability Management, PG Diploma in Digital Asset Management, PG Diploma in Engineering Management, PG Diploma in Predictive Maintenance, MBA in Reliability Engineering & Asset Management, Plant Maintenance & Diagnostic Engineer (PMDE)

EXPERTISE

RELIABILITY CENTERED

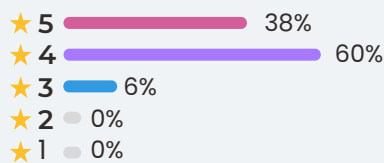
MAINTENANCE (RCM) – OVERVIEW



STUDENT'S FEEDBACK

4.58

★★★★★
Course Rating



Ifeanyi A.

★★★★★

Its a great learning experience



Orime Henry C.

★★★★★

It was an awesome experience using my phone, however a computer remains a better way of attending the course online.



Emmanuel U.

★★★★★

It was quite a refreshing and enlightening course. Delivery was on point, easy to understand and apply. Awesome!

COURSE PERFORMANCE

Are you learning valuable information?

100%

Are the explanations of concepts clear?

100%

Is the instructor's delivery engaging?

87%

Are there enough opportunities to apply what you are learning?

93%

Is the course delivering on your expectations?

100%

Is the instructor knowledgeable about the topics?

100%

ARRELIC

WORLD CLASS TRAINER

DEEPAK KUMAR SAHOO, CRL, CMRP

QUALIFICATION	MS (Reliability Engineering), PG in Engineering Management, B. Tech (Mech)
EXPERIENCE	13+
INDUSTRIES	Petrochemicals, Aerospace, Consulting
BASE LOCATION	Kolkata, India



Worked in multiple industries such as Petrochemicals, Steel, Aerospace and consulting domain in Asia Pacific, Middle-East, Eastern Europe and North Africa regions. Published white papers and presented seminars in various international forum. Filed 7 patents on asset management and online condition monitoring.

DOMAIN KNOWLEDGE

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, Business Strategy, 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, Reliability Readiness Assessment, Work Management.

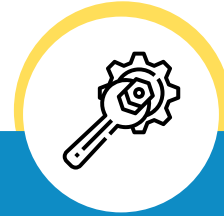
INDUSTRIES

KEY CHALLENGES



HIGHER BREAKDOWN OR MACHINE DOWNTIME

Companies are facing average of 11% downtime over a year.



POOR EQUIPMENTS AVAILABILITY AND RELIABILITY

Still most of manufacturing industry rely on preventive maintenance rather Predictive maintenance. Due to this machines having lower reliability.



LACK OF OPERATIONAL EFFICIENCY

Currently industry average OEE - Overall Equipment Effectiveness stands 81% where as the best in class companies are having more than 88%.



LESS USE OF MACHINE DATA FOR DECISION MAKING

Poor data usage may lead to performance lag. Less than 01% machine data used in industry for decision making.



RISING PRODUCTION COSTS

Wrong assessment of assets, lack of better O&M strategy may lead to rise in production costs.



SKILLS GAP

Companies are increasing facing the required skilled recourses due to rapid change in technology and complex operations.

ARRELIC

SELF - PACED E-LEARNING

USD
149.99
INR
9,440
(GST INCLUSIVE)

Reliability

THIS COURSE INCLUDES

- 10+ hours on demand video
- RCM Certificate from Arrelic Professional Development Institute (APDI)
- Verified badge from ReliabilityQ
- 100% Job Assistance and 12 months free access to Reliability Q - Career Centre.
- Full lifetime access
- Access on mobile and TV

WAY TO REGISTER

tinyurl.com/GForm1320

FOR COUPON CODE CONTACT:

<https://wa.me/919937265750>

<https://wa.me/14087094250>

training@arrelic.com



Reliability

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THIS COURSE INCLUDES

- Entry for 02 days Online Instructor Led Training
- Comprehensive Learning Kit.
- Pre-Course Learning.
- 12+ hours of on-demand video.
- Unlimited access to recorded training videos.
- 100% Job Assistance and 12 months free access to Reliability Q - Career Centre.
- Verified badge from ReliabilityQ
- RCM - Reliability Centered Maintenance Certificate from APDI

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<https://wa.me/919937265750>

<https://wa.me/14087094250>

training@arrelic.com

FOR LIVE TRAINING SCHEDULE

DATE & TIME FOR THE YEAR 2022-23 FOR WEEKEND BATCH

2022 NOV 19 -20

2022 DEC 17-18

2023 JAN 28-29

2023 FEB 14-15

2023 APR 21-22

2023 MAY 18-19

2023 JUN 17-18

2023 JUL 27-28

2023 AUG 26-27

2023 SEP 15-16

2023 NOV 09-10

2023 DEC 16-17

SCHEDULE FOR PUBLIC TRAINING

DATE

2023 AUG 10-11

2023 OCT 07-08

2023 JAN 07-08

2023 MAR 25-26

LOCATIONS

KOLKATA, INDIA

KOLKATA, INDIA

KOLKATA, INDIA

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All classes starts at 10.30 AM | GMT+ 5.30

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REGISTRATION

COURSE NAME

RELIABILITY CENTERED MAINTENANCE
(RCM)

TRAINER NAME

DEEPAK KUMAR SAHOO, CRL, CMRP

CREDIT HOURS: 16 Hours

CERTIFICATE ISSUER: ARRELIC

PROFESSIONAL DEVELOPMENT INSTITUTE

CLIENT IDENTIFICATION DETAILS

(PLEASE COMPLETE FORM IN CAPITAL LETTERS)

NAME: _____

JOB TITLE: _____

EMAIL: _____

MOBILE: _____

ADDRESS: _____

COMPANY/ORGANISATION DETAILS

COMPANY NAME: _____

LOCATION: _____

ADDRESS: _____

INDUSTRY: _____

PHONE: _____

EMAIL: _____

WEBSITE: _____

ACCEPTANCE OF TRAINING CONTRACT & TERMS & CONDITIONS:

I hereby declare I accepted the training contract and terms & conditions.

SIGNATURE: _____

TRAINING TERMS & CONDITIONS

1. PAYMENT TERMS: Arrelic Reliability Private Limited (hereinafter as "Arrelic") requires 100% payment of the full amount upon receipt of the invoice. Arrelic reserves the right to refuse entry to any client who does not pay the invoice in full and on time. The registration fee does not include travel, hotel accommodation, transfers or insurance.

2. HOTEL ACCOMMODATION: Hotel accommodation is not included in the registration fee. A reduced rate or special discounted rates are available to the participants at the hotel hosting the event.

3. CANCELLATION BY CLIENT: The client has the right to cancel his/her participation in the event. Cancellation must be received by Arrelic in writing, either by mail or fax. If the client cancels with more than one month's advance notice before the start of the event, Arrelic shall be entitled to retain and charge 50% of the amount payable for participation in the event. If the client cancels with one month's (or less) advance notice, or fails to attend the event, then the client shall not be entitled to any refund. Failure to attend an event shall not excuse a client from owing the full amount of the registration fee. A copy of the training notes from the event will be sent to the client after the event is over in case of cancellation by the client.

4. CANCELLATION BY ARRELIC: While every reasonable effort is made to adhere to the advertised program, circumstances can arise which may cause changes in the program, including but not limited to changes in the content, date(s), location or venue, or special features of the planned event. Such circumstances include but are not limited to acts of terrorism, war, extreme weather conditions, compliance with government requests, orders and legal requirements, failure of third party suppliers to timely deliver, and failure to register the minimum target amount of attendees for a given event. Arrelic reserves the right to change the content, date(s), location or venue and/ or special features of an event, to merge the event with another event, or to postpone it or cancel it entirely as appropriate under the circumstances. Client agrees that Arrelic shall not be liable for any cost, damage or expense which may be incurred by client as a consequence of the event being so changed, merged, postponed or cancelled and client agrees to hold Arrelic harmless and to indemnify Arrelic in case of liability caused by any such changes, mergers, postponements or cancellations.

5. GOVERNING LAW: This Agreement shall be governed in all respects by the laws of the Indian government. Any disputes arising out of this contract shall be brought before the courts of the India situated in Bhubaneswar, India at its sole discretion.

6. GST: GST will be charged at the rate of 18% or at actual based on what is prevailing at the time of Invoice would be extra.

7. INTELLECTUAL PROPERTY RIGHTS: Arrelic retains ownership to its intellectual properties such as patents, trademarks, training materials, IT software's etc. Participants should not share the training materials such as presentations, handouts and assessment questionnaires to any one.

RCM (OVERVIEW)

CERTIFICANTS

CERTIFICATE NO.	NAME	2021
2113201001	TANMAYEE MOHANTY	
2113201002	GULREZ AZAM	
2113201003	ARUNAVA DAS	
2113201004	SOUNDARAPANDIAN SRINIVASAN	
2113201005	CHITTARANJAN SWAIN	
2113201006	KANNAIAN SHANMUGAM	
2113201007	SUNIT MITRA	
2113201008	BISWAJEET MOHANTA	
2113201009	NITHYANANTHAN S KRISHNAMOORTHY	
2113201010	KAMLESH KUMAR	
2113201011	MANOJ KUMAR BARIK	
2113201012	PRASAD OMPRAKASH	

For RCM Certificate from APDI

For Reliability Centered Maintenance (RCM) Certificate from Arrelic Professional Development Institute, kindly send an email to certify@arrelic.com with your Full Name, Email ID, Company you are currently working, Job Title, Country.



Verify your certificate -
reliabilityq.com/verify

ARRELIC

RELATED COURSE

CODE - 6250



MAINTENANCE PLANNING & SCHEDULING (MPS) - ADVANCE

Training Hours: 24 Hours | 03 Days

Training Level: Sr. Management and Mid Level

Certification Bodies : Arrellic Professional Development Institute

Self-Paced E-Learning Mode: USD 199.99

Live Virtual / Online Mode: USD 499.99

RELIABILITY & MAINTENANCE EXCELLENCE (RME)

Training Hours: 32 Hours | 04 Days

Training Level: Sr. Management and Mid Level

Certification Bodies : Arrellic Professional Development Institute

Self-Paced E-Learning Mode: USD 199.99

Live Virtual / Online Mode: USD 499.99



CODE - 1140

CODE - 2400



ASSET PERFORMANCE MANAGEMENT (APM)

Training Hours: 24 Hours | 03 Days

Training Level: Sr. Management and Mid Level

Certification Bodies : Arrellic Professional Development Institute

Self-Paced E-Learning Mode: USD 149.99

Live Virtual / Online Mode: USD 399.99

ADVANCE MAINTENANCE AND RELIABILITY MANAGEMENT (AMRM)

Training Hours: 32 Hours | 04 Days

Training Level: Sr. Management and Mid Level

Certification Bodies : Arrellic Professional Development Institute

Self-Paced E-Learning Mode: USD 149.99

Live Virtual / Online Mode: USD 399.99



CODE - 1220

CODE - 2410



ASSET INTEGRITY MANAGEMENT (AIM)

Training Hours: 24 Hours | 03 Days

Training Level: Sr. Management and Mid Level

Certification Bodies : Arrellic Professional Development Institute

Self-Paced E-Learning Mode: USD 149.99

Live Virtual / Online Mode: USD 399.99

INTRODUCTION TO PREDICTIVE MAINTENANCE (PDM/CBM)

Training Hours: 24 Hours | 03 Days

Training Level: Sr. Management and Mid Level

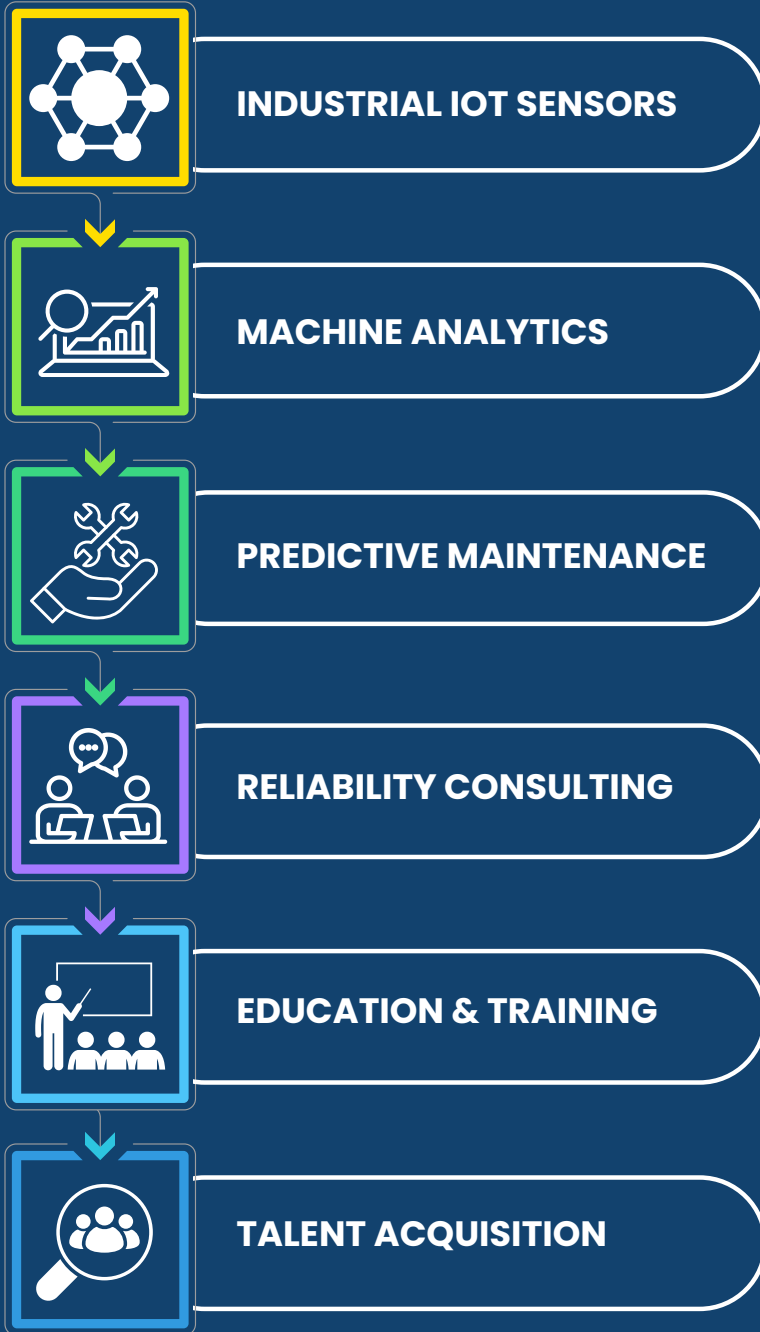
Certification Bodies : Arrellic Professional Development Institute

Self-Paced E-Learning Mode: USD 149.99

Live Virtual / Online Mode: USD 399.99



CODE - 5005



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