

TRAINING PROGRAM ON

Asset Performance Management Code - 2400



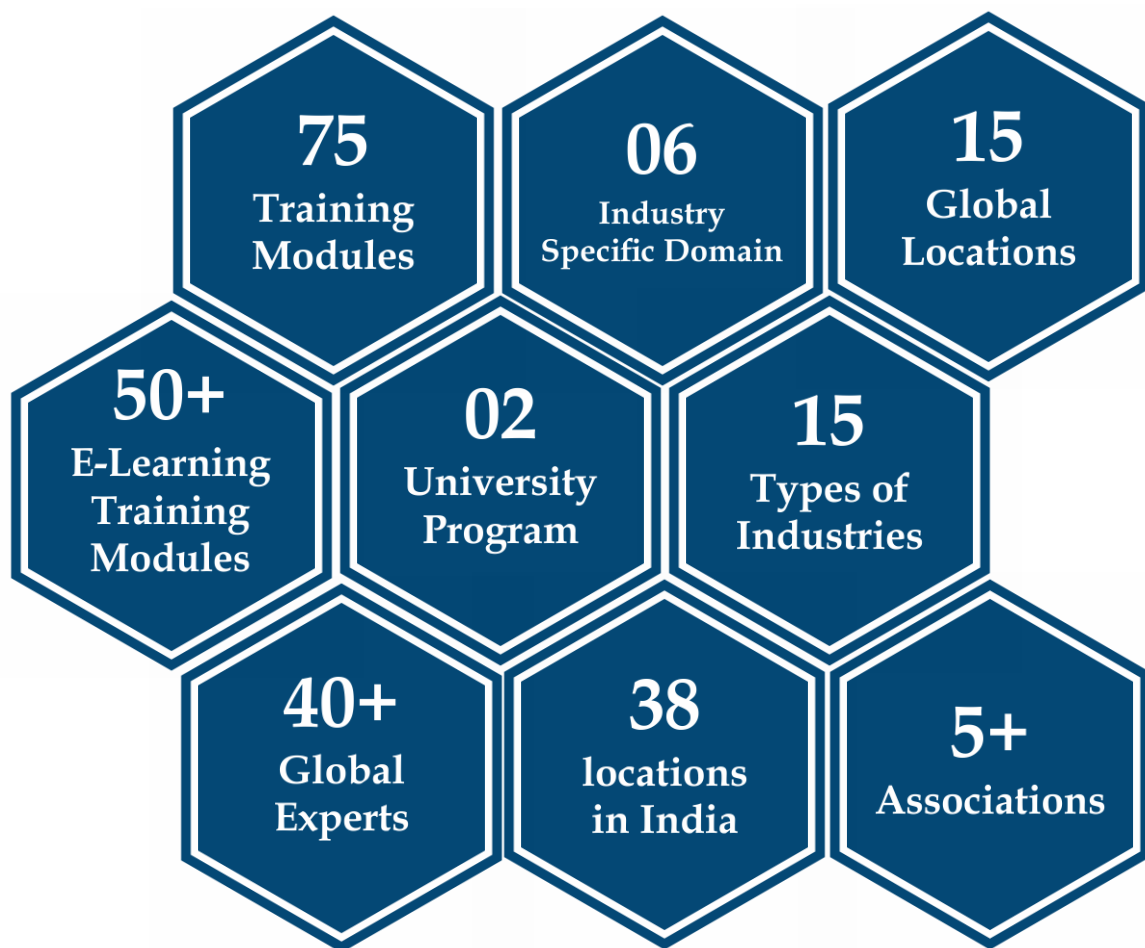
ABOUT ARRELIC TRAINING INSTITUTE

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



GLOBAL ENTREPRENEURSHIP SUMMIT
INDIA 2017

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



SMART FIFTY
50 Solutions to Transform 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.



birac
Ignite Innovate Incubate

BIRAC finalist in SPARCH - 2017

web summit

LISBON, NOVEMBER 6-9, 2017

Selected for Web summit - Lisbon



hello tomorrow

Selected for Hello tomorrow, Paris Summit.



Selected and presented in 1000 open startups.



ABOUT THE TRAINING COURSE

Asset Management Strategy Development

Asset performance management (APM) systems act to improve the reliability and availability of physical assets while minimizing risk and operating costs. APM typically includes condition monitoring, predictive maintenance, asset integrity management, reliability-centered maintenance, and often involves technologies such as asset health data collection, visualization, and analytics.

Asset Performance Management involves information sharing and application integration among operations and maintenance to provide a comprehensive view of production, asset performance, and product quality. APM improves integration between production management (making the product) and asset management (ensuring the capability to produce). Goals and objectives become more clearly communicated and shared. The ramifications of APM extend into business processes, technology, and organizational structure

Asset Performance Management synchronizes production and maintenance with information sharing and application integration among enterprise asset management, manufacturing execution systems/manufacturing operations management, plant asset management, asset integrity management (inspections), and other solutions to provide a comprehensive view of production and asset performance. This integration increases cross-functional visibility, collaboration, and communication for better productivity, reliability, safety, quality and return on assets



LEARNING OBJECTIVES & KEY BENEFITS OF ATTENDING THE WORKSHOP

Asset performance management (APM) systems act to improve the reliability and availability of physical assets while minimizing risk and operating costs. APM typically includes condition monitoring, predictive maintenance, asset integrity management, reliability-centered maintenance, and often involves technologies such as asset health data collection, visualization, and analytics. Asset Performance Management involves information sharing and application integration among operations and maintenance to provide a comprehensive view of production, asset performance, and product quality. APM improves integration between production management (making the product) and asset management (ensuring the capability to produce). Goals and objectives become more clearly communicated and shared. The ramifications of APM extend into business processes, technology, and organizational structure

Asset Performance Management synchronizes production and maintenance with information sharing and application integration among enterprise asset management, manufacturing execution systems/manufacturing operations management, plant asset management, asset integrity management (inspections), and other solutions to provide a comprehensive view of production and asset performance. This integration increases cross-functional visibility, collaboration, and communication for better productivity, reliability, safety, quality and return on assets

WHO SHOULD ATTEND ?

- ✓ **Operations Managers**
- ✓ **Maintenance Engineers**
- ✓ **Safety Specialists**
- ✓ **Safety Managers**
- ✓ **Safety Coordinates**
- ✓ **Safety Committee members**
- ✓ **Loss Control Managers**
- ✓ **Full-time Safety Practitioners**





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

Criticality Analysis and Ranking:

- ✓ Introduction, Purpose of Criticality Analysis, Benefits,
- ✓ Calculation of equipment criticality.

Failure Mode Effect and Analysis

- ✓ What is FMEA?
- ✓ History, Benefits and Types of FME
- ✓ How it can implement in Product Life Cycles with examples

DAY - 2

Opportunistic maintenance

- ✓ Introduction, Flow Chart of Opportunistic maintenance
- ✓ Genetic Algorithm(GA)
- ✓ GA based Opportunistic maintenance

Risk Based Inspection

- ✓ The steps involved in a qualitative (team based) RBI study
- ✓ Meeting the requirements of API 580
- ✓ The methodology within each step of an RBI
- ✓ RAM System Modelling and Analysis:
- ✓ RAM Assurance and Physics of Failure

REVIEW & Q/A

DAY -3

Reliability Modelling

- ✓ Definition, Bath Tub Curve
- ✓ Parametric Analysis
- ✓ Regression Analysis
- ✓ Linearized formula for Weibul Distribution

Reliability Maintainability and Availability

- ✓ Reliability, Statistical Methods - Introduction -Definitions, concepts and Introduction to Reliability Engineering
- ✓ Data Collection, Analysis and Corrective Action - Data Collection Methodology
- ✓ Failure Reporting and Corrective / Preventive Action
- ✓ Direct Calculated Reliability Block Diagrams (RBD)
- ✓ Markov analysis - constructing models, defining phase transitions, base rates, time dependent rates
- ✓ Using failure data - Weibull Failure models

REVIEW & Q/A

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