

TRAINING PROGRAM ON

# Asset Management Strategy Development (AMSD)

Code - 2405

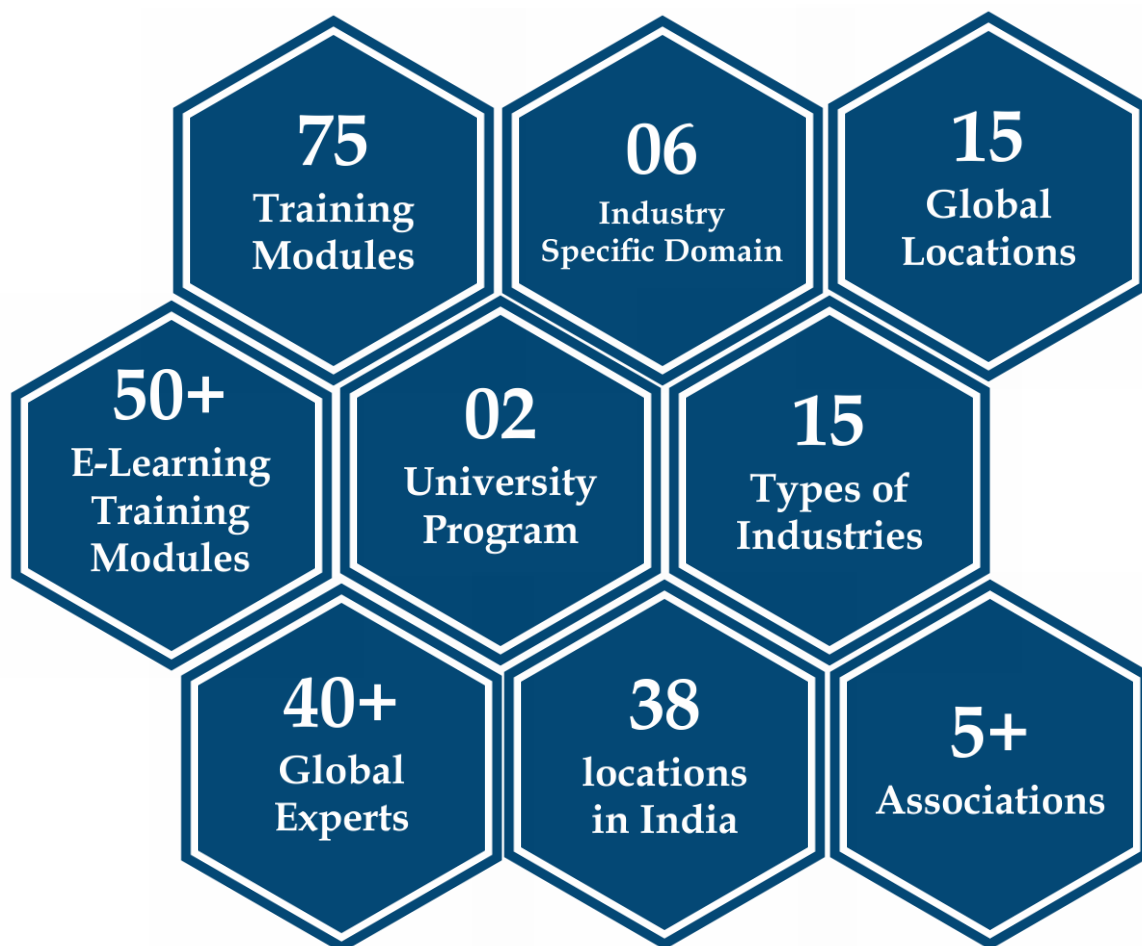
# ABOUT ARRELIC TRAINING INSTITUTE

Arrellic 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.

Arrellic 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.

Arrellic 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.arrellic.com/offerings/training-and-development](http://www.arrellic.com/offerings/training-and-development)



# ARRELIC AWARDS & RECOGNITIONS

**NASSCOM<sup>®</sup>**

**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 Management Strategy Development (AMSD) (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 Management Strategy Development (AMSD) 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 Management Strategy Development (AMSD) 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

With Asset Management Strategy Development (AMSD), Arrelic offers value-added solutions to optimize asset operation, maintenance and replacement strategy, taking into account asset condition, criticality and performance objectives. Maintenance and replacement decisions can be optimized by moving from reactive to proactive maintenance and reducing unplanned downtime, minimizing costs to extend asset life.

By attending this technical training on “Asset Management Strategy Development” delegates will be able learn and deliver the following things.

- ✓ It cultivates a partnership between operations and maintenance, whose common goal is equipment uptime.
- ✓ APM optimize the equipment performance and reliability on daily basis.
- ✓ It will help to identify the current asset health and able to provide a long-term view to drive capital planning.
- ✓ Visibility into complete lifecycle of asset - Understanding the Economic Value Add
- ✓ Aligning asset performance to corporate performance
- ✓ How critical is this asset?

## WHO SHOULD ATTEND ?

Successful Asset Management Strategy Development 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. People in the following roles should participate in this training:

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

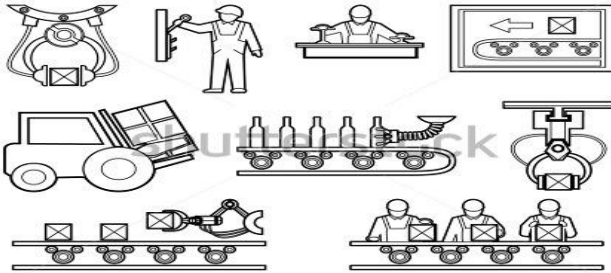






# INDUSTRIES THAT CONCERN ABOUT

## 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

### Introduction to AMSD

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

### Basics and Fundamentals of AMSD

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

### AMSD Methodology

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

### REVIEW & Q/A

## DAY - 2

### APM Reliability

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

### APM Integrity

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

### REVIEW & Q/A

### POST ASSESSMENT

## PROGRAM SCHEDULE

09:00 -10:30	Morning Session 1	13:30 -15:00	Afternoon Session 1
10:30 -11:00	Refreshments & Networking Break	15:00 -15:30	Refreshments & Networking Break
11:00 -12:30	Morning Session 2	15:30 -17:00	Afternoon Session 2
12:30 -13:30	Lunch	17:00 -17:30	Day review & Q/A