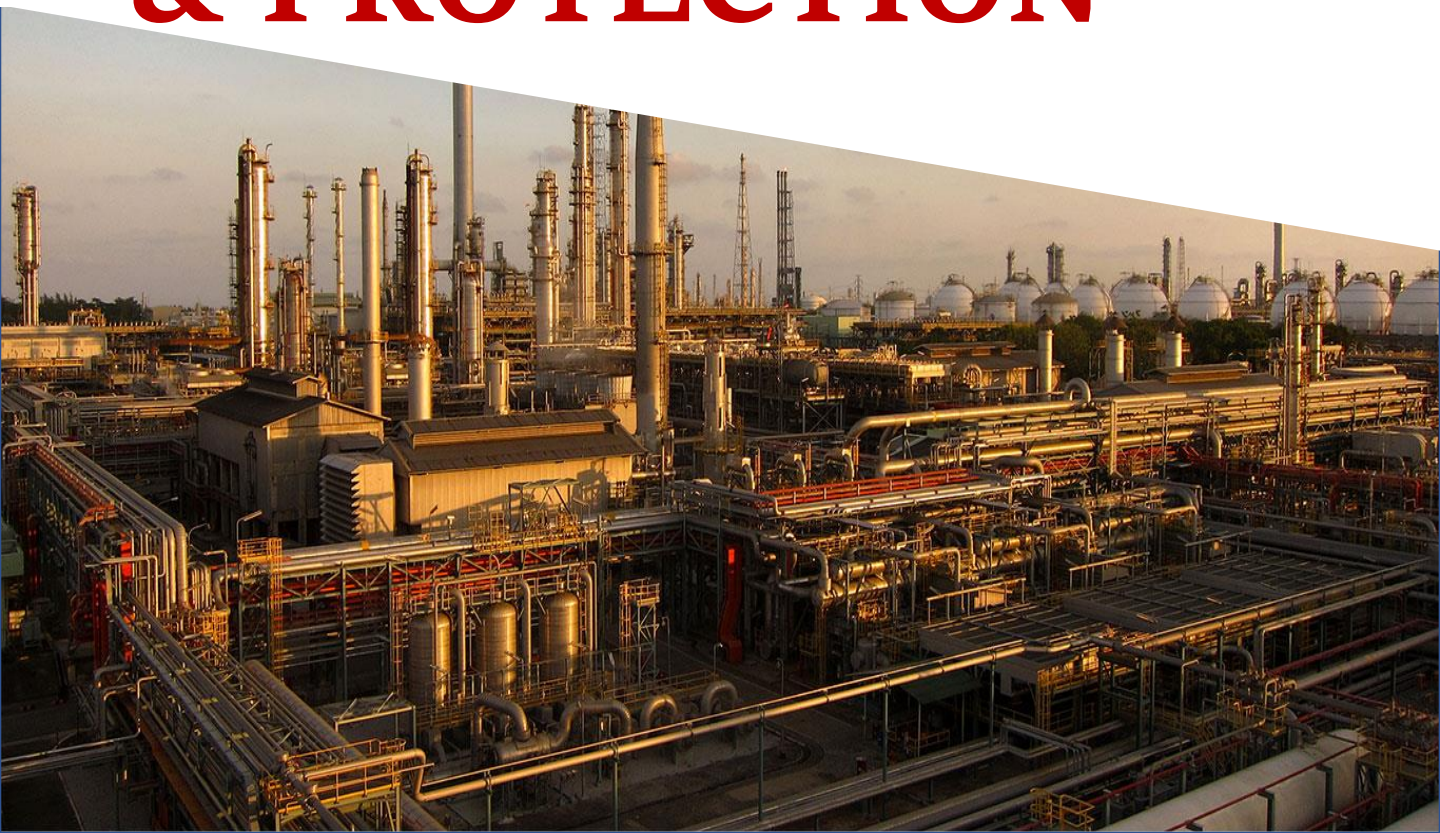




TRAINING PROGRAM ON
**ACCIDENT
PREVENTION
& PROTECTION**



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

50+
E-Learning
Training
Modules

40+
Global
Experts

06
Industry
Specific Domain

15
Types of
Industries

5+
Associations

02
University
Program

38
locations
in India

15
Global
Locations

75
Training
Modules

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.

NASSCOM[®]
PRODUCT CONCLAVE

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

TIE CON DELHI-NCR

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

#startupindia

Startup India Recognize

Startup Odisha

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

ACCIDENT PREVENTION & PROTECTION

According to International Labour Office statistics, 120 million occupational accidents occur annually at workplaces worldwide. Of these, 210,000 are fatal accidents. Every day, more than 500 men or women do not come home because they were killed by accidents at work. These are dramatic numbers which draw fairly little public attention. Considering the fact that accidents take a considerable economic toll from nations, companies and individuals, accidents do not get much publicity.

Accidents can harm and kill. Every day, thousands of accidents occur throughout the world, affecting all sectors of the economy. The problem can be especially acute in small and medium sized businesses, where health and safety may not be heavily regulated. At an individual level, the personal cost of an accident can be high, both emotionally and financially. In addition to the pain and mental distress, it can be a life-changing event, causing suffering to both workers and their families. But there's a financial cost for companies too. Employers have to pay the salary of an injured worker as well as give compensation, and they face additional indirect costs in the form of overtime payments to other workers, lost production, and the recruitment and training of replacement staff.

Studies show that employee errors are behind most workplace accidents, followed by equipment insufficiencies, then bad procedures. These factors can all be addressed with better training and by developing an accident prevention plan. Companies have a special responsibility for employees who may be especially at risk. This course helps the participants to know about the causes of accidents, hierarchy of control measures, Different hazard controls at the work space and Personal protective equipment and help them to prevent and how to protect the employees from any kind of accident at their workplace.



LEARNING OBJECTIVES & KEY BENEFITS OF ATTENDING THE WORKSHOP

By attending this technical training on “**Accident Prevention and Protection**” delegates will be able learn and deliver the following things.

- ✓ **Developing and maintaining an environment that provides safe and healthy working conditions for employees and safe operations of facilities, equipment, and handling products**
- ✓ **Reducing incident rates by maintaining safe and healthy conditions and standards**
- ✓ **Reducing property losses**
- ✓ **Administering training programs that increase awareness of safety and health on a regular basis**
- ✓ **Providing the necessary focus on the importance of health and safety programs in the workplace**
- ✓ **Reducing the pain, suffering, and associated costs of employee injuries and illness**
- ✓ **Reducing workers’ compensation costs.**

WHO SHOULD ATTEND ?

Successful accident prevention and protection 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:

- ✓ **Maintenance Planner/Scheduler**
- ✓ **Maintenance Supervisor**
- ✓ **Maintenance Manager**
- ✓ **Maintenance Engineer**
- ✓ **Operation Engineer**
- ✓ **Operation Coordinator**
- ✓ **Production Supervisor**
- ✓ **Storeroom Manager**
- ✓ **Project Engineer**
- ✓ **Purchase Manager**





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

CAUSES OF ACCIDENTS

- ✓ Unsafe Acts
- ✓ Unsafe Conditions
- ✓ Unsafe Acts vs Unsafe Conditions

CATEGORIES OF ACCIDENT CAUSES IN DETAIL

- ✓ Task
- ✓ Material
- ✓ Environment
- ✓ Personnel
- ✓ Management

HIERARCHY OF CONTROL MEASURES

- ✓ How to eliminate risks
- ✓ How to combat risks
- ✓ How to minimize risks

REVIEW & Q/A

DAY - 2

HAZARD CONTROL AT WORK PLACE

ENGINEERING CONTROLS

- ✓ Analysis of Hazard & Risk involved with plant & machinery.
- ✓ Elimination/reduction of hazard by proper selection & design of facilities.
- ✓ Diminishing chances of accidents by providing additional safety devices.

ADMINISTRATIVE CONTROLS

- ✓ Standard operating procedure
- ✓ Work permit system
- ✓ Safe work practices (job safety analysis)
- ✓ Training of employees & contract workmen
- ✓ Emergency planning & mutual aid system

REVIEW & Q/A

DAY - 3

TRAINING CONTROLS

- ✓ How to recognize, report, avoid and control hazards
- ✓ How to safely use equipment, tools and chemicals
- ✓ How to select, use and store personal protective equipment

PERSONAL PROTECTIVE EQUIPMENT

- ✓ Safety culture & its significance in enhancing safety at workplace
- ✓ Identification of hazards by recognizing, anticipating unsafe conditions & acts
- ✓ Effective safety audit to make the workplace safer
- ✓ Root cause analysis of accidents/incidents based on detail investigation
- ✓ Accident Safety regulations (as per factory act) & their significance

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