

TRAINING PROGRAM ON

Total Productive Maintenance



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.

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

Introduction to Total Productive Maintenance

Arrelic's Total Productive Maintenance is a systematic proactive approach that includes periodic, predictive and corrective maintenance, and has a goal of identifying and eliminating waste or loss associated with production equipment. Zero Breakdowns, Zero Defects, Zero Minor Stoppages and Lower Costs Losses are identified and attacked by employees. To achieve these goals, the various phases of the equipment's life span are properly observed and focused effort applied.

It is an all-inclusive approach to equipment maintenance that strives to achieve perfect production (zero defects). This means that equipment is expected to have zero breakdowns, slow runs, or defects. TPM also values a safe working environment with a zero accident policy.

It is a team and shop floor based initiative focused on optimizing the effectiveness of manufacturing equipment. TPM helps workers efficiently care for the equipment and machines they work with, which will reduce costs, including money and space tied up with spare parts inventory.

TPM focused to maximize the productivity of facilities by transferring the responsibility for regular maintenance to employees. It consists of 8 pillars, each containing approaches to eliminate losses and waste.

If organisations are to move toward an asset management environment with a focus on maximising equipment life, then the planner must be seen more as a whole of life Asset Management Planner rather than the Maintenance Planner of old. This course is the starting point for that transition.





LEARNING OBJECTIVES & KEY BENEFITS OF ATTENDING THE WORKSHOP

By attending this technical training on “Total Productive Maintenance” delegates will be able learn and deliver the following things.

- ✓ Describe the primary benefits gained from total productive maintenance
- ✓ Identify the four major categories of maintenance
- ✓ Identify the four major categories of maintenance
- ✓ Organize kaizen events to conduct and lead autonomous maintenance
- ✓ Conduct breakdown analysis reviews, and grasp their importance
- ✓ Use the principles of Early Equipment Management
- ✓ Understand the principles of change management and apply the individual roles of leadership in change management as it relates to TPM/TPR implementation

WHO SHOULD ATTEND ?

Predictive Maintenance attempts to detect the onset of a degradation mechanism with an aim of correcting the degradation prior to significant deterioration in the component or equipment. People in the following roles should participate in this training:

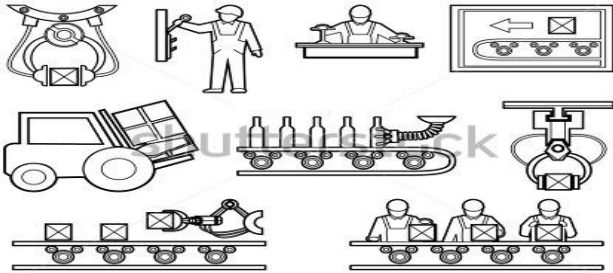
- ✓ Participants must be affiliated with a manufacturing or service organization actively pursuing process improvement techniques, and should have a fundamental understanding of TPM and lean techniques they may be production Engineering, maintenance, setters, operators, team Leaders, middle managers.





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

INTRODUCTION TO TPM

- ✓ Maintenance management methods
- ✓ Types of Maintenance Focused Improvement
- ✓ Properly use machine performance data to identify and execute a tactical action plan

12 STEPS OF DEPLOYMENT

- ✓ Properly use machine performance data to identify and execute a tactical action plan
- ✓ Evaluation of the maintenance organization

DAY - 2

OVERLAPPING SMALL GROUPS

- ✓ Properly use machine performance data to identify and execute a tactical action plan
- ✓ Functional Requirements

THE 8 PILLARS OF TPM

- ✓ Focussed Improvement
- ✓ Training and Education
- ✓ Driven components

DAY - 3

BASIC CONCEPTS OF TPM

- ✓ Addressing the various concepts of TPM
- ✓ Enhancing overall product quality through suitable materials

16 LOSSES AND OEE

- ✓ Identification process and prioritization that maximizes business performance.
- ✓ Properly use machine performance data to identify and execute a tactical action plan

DAY - 4

DETERIORATION AND RELIABILITY

- ✓ Performance Assessment and Analytics
- ✓ Maintenance Materials Management

ACHIEVING ZERO LOSSES - ACCIDENTS, BREAKDOWNS, DEFECTS

- ✓ Failure analysis and Recurrence prevention
- ✓ Maintenance work management
- ✓ Maintenance cost management

DAY - 5

QUALITY MAINTENANCE

- ✓ Properly use machine performance data to identify and execute a tactical action plan
- ✓ Selecting a predictive maintenance system
- ✓ Database development

AUTONOMOUS MAINTENANCE

- ✓ Maintenance troubleshooting
- ✓ Additional training
- ✓ Technical support
- ✓ Spare parts management

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`