Condition Monitoring & Predictive Maintenance

Date	Venues	($)Fees	Book your seat
15 Dec -19 Dec 2024	Bahrain	2900	[Register Now](#)

:Objectives

By the end of this course:

- Identify Why Time Based Maintenance Doesn't Work Understand Different PdM Technologies
- Predict What Maintenance Needs to be done and When
- How to Choose the right PdM Technologies for You
- Measure the Effectiveness of Maintenance Decisions
- Communicate the Condition Monitoring Program through the Facility
- How to Choose a PdM Service Provider
- How to Implement a PdM Program

Course Outline:

Predictive Maintenance Program Types:

- Predictive Maintenance Program Types
- Break down
- Preventive
- Predictive

Failure Rate vs. Time:

- Bathtub Curve
- Definition: Weibull Distribution Curve of Failure Rate vs. Time

Sixteen PdM Program Benefits:

- How to Develop a PdM Program Worksheet with Microsoft Excel

Using Maintenance Log Data:

- Times-To-Failure
- Suspension Time
- Times-To-Repair
- MTBF - Mean Time Between Failures

Root Cause Analysis for Beginners:

- What Happened? How? Why?

- How to do Cause Charting for Root Causes Possible Causes
- Recommendations
- Implementation Action Steps

WORKSHOP STYLE:

A mixture of short presentations, interactive discussion, individual exercises and group work. The emphasis throughout is on a practical approach using case material and examples.

Wireless Communication

- Cellular Networks
- Mobile communication systems
- GSM – GPRS – CDMA – UMTS-LTE
- Voice over IP (VOIP) – IPV4-IPV6
- Supervision of senior projects
- In building solution designing,
- Link budget calculations, coverage
- Simulation, planning parameter optimization

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