Maintenance, Reliability and Asset Management Technology
Best Practices
Inspection, Analysis & Monitoring

13 - 17 Aug 2018, Istanbul
03 - 07 Dec 2018, Kuala Lumpur
Why Choose this Training Course?

Maintenance, Reliability and Asset Management Best Practices are critical for every successful individual and company. It is the job of the maintenance professional to optimise the maintenance effort using a structured and systematic approach. This training course covers all the fundamentals of Maintenance, Reliability and Asset Management that a suitably qualified professional would be expected to carry out during his duty starting with the first steps and building up in a stair case fashion to a fully functional maintenance organisation.

Individuals exposed to this training will develop new insights into international best practices. They will learn why the best companies in the world see Maintenance management as the key to delivering the right quality product at the lowest costs. Technical knowledge is key to effective control and peer respect within any maintenance organisation; when this is achieved personal satisfaction follows. This seminar will give the delegate the required level of technical knowledge and skill to achieve that personal satisfaction.

On completion of this seminar the delegate will be able to critically analyse the methodologies employed within the organisation and instigate improvements where required.

This training course will feature:

- Fundamentals of maintenance, reliability and asset management
- Reliability modelling and failure modes for rotating and stationery machinery
- Learning from major failures
- Condition based maintenance technologies
- Selection of appropriate maintenance strategies in asset management

Who is this Training Course for?

This comprehensive 5-day training course has been designed to benefit both qualified new professionals as well as experienced professionals who might need to refresh their skills. It is highly recommended that all Maintenance, Reliability, Engineering and technical support staff including leadership and management attend this workshop. If you and your company are interested in greatly increasing productivity, this will be a very valuable training course.

This AZTech training course is suitable to a wide range of professionals but will greatly benefit:

- Maintenance supervisors and superintendents
- Reliability engineers
- Operational professionals who are interested in maintenance reliability and asset management
- Safety and integrity professionals
- Other professionals involved in process improvement

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What are the Goals?

To provide a step-by-step guide to maintenance, reliability and asset management best practice starting with foundations and building up to best practice that will deliver maximum business benefits. By virtue of dynamic participation in this seminar, it is to be expected that delegates will make a substantial, positive impact on the maintenance regime within their home organisation.

By the end of this training course, participants will be able to have:

- A solid understanding of Maintenance optimization best practice techniques
- An understanding of a range of equipment failures and their implications to the operational organisation.
- The ability to design a maintenance plan for the upkeep and maintenance inspections of static and rotating plant.
- A practical approach to developing an action plan to utilise these technologies in their own areas of responsibility, fitting them into the overall maintenance strategy, and measuring benefits
- Integration of Reliability Centred Maintenance (RCM), Total Productive Maintenance (TPM) and Condition Based Maintenance (CBM)
How will this Training Course be Presented?

This AZTech training course will utilise a variety of proven adult learning techniques to ensure maximum understanding, comprehension and retention of the information presented. This is designed to be a hands-on, stimulating experience. This training course is highly interactive with many discussion and facilitated practice sessions led by speakers who are at the forefront of their field. There are plenty of case studies, and illustration of both worst and best practices in the field of maintenance and asset management.

**DAY ONE:**

**Failure of Machines and Inspection Based Failure Analysis - Causes of Machinery Failure in Rotating Equipment**

- Cavitation in Pumps
- Tripping of Turbines
- Surging in Compressors
- Wear Mechanisms: Fatigue, Fretting, and Corrosion
- Fundamentals of Maintenance and Asset Management

**DAY TWO:**

**Failure Analysis and Reliability**

- Elementary Statistics and Standards
- Reliability Models
- Learning from Major Failures Case Studies in Process Industries
- Learning from Major Failures Case Studies in Oil and Gas Industries
- Root Cause Analysis and Extractions of Specific and Generic Lessons
- Reflection on Why Systems Fail

**DAY THREE:**

**Statistical Failure Analysis and Reliability**

- Further Reliability Definitions and Standards
- Examples of the Planning Process
- Hazard Function and Bath Tub Curve
- Weibull Analysis
- Case Studies from Rotating Equipment
- Case Studies of Major Failures in other Industries

**DAY FOUR:**

**Condition Based Maintenance**

- General Purpose CBM
- The P-F Curve
- Principles of Vibration Monitoring
- Thermal Monitoring
- Acoustic Emission
- Lubricant Monitoring

**DAY FIVE:**

**Decision Analysis in Asset Management**

- Main Criticism of Existing Management of Computerised Maintenance Systems
- The Asset Management Framework
- The Decision-Making Grid Approaches
- Selection of Appropriate Maintenance Strategies
- Integration of RCM, TPM, and CBM Approaches

**The Certificate**

AZTech Certificate of Completion for delegates who attend and complete the course.
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Complete & send by fax/mail to address given below. Please use BLOCK CAPITALS.

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<thead>
<tr>
<th>Date</th>
<th>Venue</th>
<th>Fees(USD)</th>
<th>Book your seat</th>
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<tr>
<td>13 - 17 Aug 2018</td>
<td>Istanbul</td>
<td>$4,950</td>
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VAT Announcement: The Government of UAE have introduced Value Added Tax (VAT) on goods and services from 01-January-2018. In compliance with the legislation issued by the UAE Government, we will be applying a 5% VAT on the fees for all our programs and services offered from January 2018 as applicable and stipulated in the FTA circulars.

HOTEL ACCOMMODATION
Hotel accommodation is not included in the Registration Fee. A reduced corporate rate and a limited number of rooms are available for attendees wishing to stay at the hotel venue. Please make your request for accommodation at least **3 weeks** prior to the commencement of the course.

EVENT DISCLAIMER
We reserve the right to cancel or postpone a seminar or related event, change venue, substitution of the Instructor at our sole discretion. If this occurs, our responsibility is limited to a refund of any registration fee(s) already paid. We are not responsible for airline tickets, hotels costs, other tickets or payments, or any similar fee penalties or related or unrelated losses, costs and/or expenses registrant may incur or have incurred as a result of any trip cancellations or changes.

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Our training portfolio will provide you a number of seminars and courses to choose from depending on your organisational goals and personal development objectives.

CANCELLATIONS & SUBSTITUTIONS
You must notify the Registrar of cancellations at least 2 weeks before a scheduled seminar in order to be eligible for a credit. If you cannot attend, you may send a replacement from your organisation at no charge. There is a $250 handling charge for all cancellations or rescheduling. We reserve the right to cancel a seminar due to low enrollment. All registrants will be notified in advance and a full refund will be provided upon request.

CERTIFICATION
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