



Asia Masters Center

Modern Techniques for The Maintenance of Stationary & Rotating Equipment



Modern Techniques for The Maintenance of Stationary & Rotating Equipment

➔ Course Objective

- Follow the requirements of industry inspection standards and practices
- Identify elements of safety of pressure vessels, storage tanks and pipelines
- Apply diagnostics and inspection procedures to pressure equipment
- Analyze results of condition monitoring and vibration control of rotating equipment
- Plan and manage activities related to maintenance and repair

➔ Target Audience

- Operation, technical service and maintenance professionals
- Technical professionals responsible for maintenance and repair of equipment
- Professionals involved in inspection and maintenance and repair
- Technical professionals dealing with risk assessment and integrity analysis
- Technicians dealing with regulating and metering and other measurements



Course Outline

Stationary Equipment - Technical Characteristics & Operational Safety

- Above Ground Storage Tanks: Operation & Safety
- Pressure Vessels, Heat Exchangers and Steam Boilers
- Pipelines & Piping Systems: Operation & Safety
- Pressure Relief Valves: Selection & Sizing
- ASME BPV VIII & ASME B31.3 Standards and API Inspection Codes

Rotating Equipment - Operation, Efficiency & Safety

- Centrifugal Pumps: Maintaining NPSH and Prevention of Cavitation
- Reciprocating & Rotary Pumps
- Centrifugal Compressors: Anti-surge Control and Choke Conditions
- Reciprocating & Rotary Compressors
- Safety Issues, Troubleshooting and Problem Solving of Rotating Equipment

Diagnostics of Equipment Failure & Root Cause Analysis

- Material Degradation & Failures of Stationary & Rotating Equipment
- Failure Modes, Effects and Diagnostics Analysis (FMEDA)
- Diagnostics of Fatigue, Cracks, & Ruptures: Fitness For Service (FFS) Analysis
- Root Cause Analysis (RCA) of Failures
- Risk Management & Mitigation Technologies: ALARP Criteria

Inspection, Monitoring & Mechanical Integrity Evaluation

- Risk Based Inspection (RBI API 580) For Stationary Pressure Equipment (NDT)



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- Pipeline Internal and External Corrosion Direct Assessment (ICDA & ECFA) Methods
- Pigging of Complex Onshore and Offshore Pipelines
- Rotating Machinery Condition Monitoring
- Vibration Analysis Including Rotor Balancing, Shaft Alignment Techniques

Maintenance & Repairs Organization & Management

- Storage Tanks: External & Internal Maintenance Techniques
- Cathodic Protection of Pipelines and Storage Tanks
- Coating & Thermal Protection
- Repair Technologies
- Summary and Conclusions
- The design of financial models for forecasting and decision-making

➤ The Feature Of Asia Master Training And Development Center

- we pick up the customer from the airport to the hotel.
- we give the participant training bag includes all the necessary tools for the course.
- Working within groups to achieve the best results.
- All our courses are confirmed and we do not postpone or cancel the courses regardless of the number of participants in the course.
- We can assist you in booking hotels at discounted prices if you wish to book through us.
- We offer the certificate from Asia Masters Center for Training and Administrative Development.

➔ **The Cost Of The Training Program Includes The Following:**

- 1) Scientific article on flash memory.
- 2) Training Room.
- 3) Training.
- 4) Coffee break.
- 5) The training bag includes all the tools for the course.

➔ **Course schedule**

- 1) Pick up & drop from the Airport
- 2) The training hours daily 6 hours
- 3) Theoretical and practical training as needed
- 4) Professional trainer from Malaysian Petroleum Company (Petronas) and other trainers.

Price (USD)

➤ **7000 \$ PER PERCIPANTE**

The details of the bank account

Bank name: CIMB Bank Berhad
Account name: Asia Masters Center SDN. BHD
Bank account number: 80-0733590-5
Swift code: CIBBMYKL
IBAN: Null