



Asia Masters Center

Operation, Diagnostics & Maintenance of Equipment for Oil & Gas Production



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Operation, Diagnostics & Maintenance of Equipment for Oil & Gas Production

➔ Course Objective

- Apply the requirements of the relevant industry standards and practices
- Understand the design and construction of rotating equipment
- Understand the design and construction of pressure vessels, piping systems, and above-ground atmospheric storage tanks
- Develop rotating and static plant into complete systems
- Develop an understanding of codes, standards, and Recommended Practices in process plant equipment and piping system design, construction and maintenance
- Enable the good management of plant systems

➔ Target Audience

- Engineers
- Operations Engineers
- Maintenance Engineers
- Engineering Supervisors and Team Leaders to give them a practical understanding of real world situations in an oil and gas production environment



Course Outline

➤ DAY 1

- Rotating Equipment
- Pumps & Compressors
- Positive displacement
- Centrifugal action
- Pump & Compressor Performance
- Pump curves
- Compressor maps
- System curves
- Selection & Specification
- Fulfilling process requirements
- System integration

➤ DAY 2

- Static Plant
- Piping, Pipelines & Pressure Vessels
- ASME B31 codes for piping
- ASME BPVC VIII for pressure vessels
- Pressure relieving devices
- Above Ground Storage Tanks
- API 650 for ASTs
- AST construction
- General Construction Considerations
- Fabrication techniques
- Resource logistics
- Working with contractors



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➤ **DAY 3**

- Materials & Construction
- Material Properties
- Physical properties
- Testing
- Material specification data
- Welding
- Techniques
- Qualification & procedures
- Approval & quality
- Inspection & Testing
- NDE techniques: VT, PT, ET, MP, RT, UT
- NDT techniques: hydrotest & pneumatic test

➤ **DAY 4**

- System Design
- Process Flow Schemes & Process Engineering Flow Schemes
- Overview
- DEP requirements
- Process design & instrumentation
- Commissioning
- Preparatory checks
- Protocol development
- Startup/Shutdown/Handover
- Plant & Equipment Operability
- Operations consideration
- Maintenance considerations



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- **DAY 5**
- Specifications
- Procurement Requirements
- Material & Performance specifications
- Supporting Standards: regulatory & in-house
- Project schedule
- Measure the Success
- KPIs for the mechanical engineer
- Bench marking

➤ **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.



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Price (USD)

Communicate with the training department
to know the participation fees

➤ **There are offers and discounts for groups**

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