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



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**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
* **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
* **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.
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3. Training.
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|  Price (USD) |
| Communicate with the training departmentto know the participation fees* There are offers and discounts for groups
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