KNOWLEDGE
For Training

1. Course Details:

Course Code : ICPE-005
Course Title : Compressor Operation and Maintenance
Course Duration : 5 Days

2. Course Overview:

- Pumps and compressors find extensive use in power plants, water circulation systems, and many other applications. Keeping these machines running with least troubles and shutdown decreases the downtime of the whole system. Right machine selection appropriate to the right application, right machine operation, effective maintenance programs, reliable monitoring system, and skilled personnel capable of doing the right trouble shooting are essential requirements for prolong machine life.

3. Learning Outcomes:

- Describe the Classifications & Selection of compressors including design aspects, laws, performance comparisons, characteristic curves and performance testing
- Determine Positive Displacement Type operation and perform maintenance and troubleshooting that including reciprocating and screw compressors.
- Determine Dynamic Type operation and perform maintenance and troubleshooting that including centrifugal and axial flow compressors.
- Be able to operate compressors with safety regulations

4. Course Contents:

- Compressors Overview, Design, Performance & Construction
- Compressors Types & Classification
- Air Compressors Theory, Operation requirements & Performance
- Gas Compressors, Theory, Operation requirements & Performance
- Reciprocating Compressors
- Rotary (Screw) Compressors
- Radial Flow (Centrifugal) Compressors
- Axial Flow Compressors
- Operations Constrains & Considerations
- Control & Instrumentation system
- Testing & Performance
- Safety Regulations & Procedures
- Failure analysis & Troubleshooting

- Preventive & Predictive maintenance
- Inspection & Repair
- Computerized Maintenance Management System (CMMS)

5. Our Methodology:

- Make coaching and monitoring innovative and using modern
- Media training also using on the go training by using interactive means and focusing on
- The exercises, practical applications and real situations study.
- Live delivery method, instructor-led training.
- Experienced consultant, trainers, and professional.
- Qualified trainer with high-level experience

6. Attendance Reports:

- Send daily attendance reports to trainingdep
- Send full attendance report to training dep. by the end of thecourse
- Attend 100 % from the course days also providedaily
- Issue attendance certificate for participant who attend minimum 80% from the course duration

7. Pre/Post Reports:

- Pre- assessment before starting training.
- Post assessment after finish training
- Full report for the deferent between Pre-& Post assessment

8. Who Should Attend?

- Operation engineers and supervisors
- Maintenance (Mech, Elect& Inst) engineers and supervisors
- Operations & Maintenance Managers