1. Course Details:

Course Code : ICPE-012
Course Title : Maintenance and Repair of Equipment and Refrigeration and Air Conditioning
Course Duration : 5 Days

2. Course Overview:

- Participants will have a thorough understanding of the fundamental concepts of Mechanical installations techniques. Participants will have in-depth knowledge of HVAC, Elevators, Firefighting and fire alarm systems, Pumps, Drainage system, Heating system, isolation materials inside the buildings, equipment selection, proper operation, troubleshooting through presentation of actual case studies.

3. Learning Outcomes:

- Teach participants the basic principles of HVAC
- Explain the purpose of the most common system components
- Provide a thorough explanation of Air Handling units and the processes taking place
- Give participants an understanding of heat pump systems and components
- Provide the knowledge necessary for participants to make a logical selection of equipment
- Provide participants with the knowledge necessary to maintain a variety of types of air conditioning plant and to be able to make correct fault diagnosis and effect repairs Provide participants with the ability to confidently deal with outside air-conditioning contractors
- Ensure that participants can witness system commissioning, testing and maintenance

4. Course Contents:

- Introduction to HVAC
- What Is Air-Conditioning
- Heat Transmission in Building Structures
- Secondary System Components
- Central Systems
- Major HVAC System Types
- AllAir Systems
- System Controls
- Introduction and Common Basics of PlumbingSystems
- Service Water Heating Systems Pipe Sizing
- Water Heating Efficiencies and Design Considerations
- Steam and Condensate Piping

- Fuel Gas Piping
- Energy Conservation in Water Systems Design
- Maintenance PlanPreparation

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?

- Operators
- Operation and maintenance
- Control Engineers
- Mechanical Engineers
- Engineering Personnel