



مركز المستشار الوطني للتدريب
National Consultant Centre For Training

NCC In-House Training Courses In

Utilities Equipment and Technology

I. Utilities Technology Related Courses:

1. Water Purification by Ion Exchange Resins
2. Ion Exchange Theory and Practice
3. Industrial Water Treatment
4. Technical Problems of Cooling Towers
5. Desalination Technologies
6. Multistage Flash Evaporation
7. Scale Formation and Descaling
8. Boiler Efficiency Improvement
9. Laboratory Technology and Instruments for Water Analysis
10. Fuel Additives Technology and Applications
11. Industrial Liquid Effluents Monitoring and Treatment
12. Corrosion in Power Generation Plant
13. Reading and Interpretation of P&I Diagrams
14. Thermal Insulation
15. Applied Combustion Technology

II. Utilities Mechanical Equipment Related Courses

1. Boilers Operation and Maintenance
2. Steam Turbines Operation and Maintenance
3. Gas Turbines Operation and Maintenance
4. Pumps Operation and Maintenance
5. Compressors Operation and Maintenance
6. Valve Selection, Troubleshooting and Maintenance
7. Heat Exchangers Design, Operation and Maintenance
8. Fans and Blowers Installation Operation and Maintenance
9. Fired Heaters Construction and Troubleshooting
10. Fuel and Flare Systems Design and Operation
11. Pipework Design, Construction and Troubleshooting
12. Hot Spots in Fired Process Heaters and Furnaces
13. Burners Selection Operation and Maintenance
14. Metering Pumps for Dosing Operation and Maintenance



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15. Bearings and Couplings Selection and Troubleshooting
16. Mechanical Seals Selection and Troubleshooting
17. Vibration Monitoring and Analysis
18. Shaft Alignment Techniques
19. Diesel Standby and Mobile Generators
20. Stack Design Construction Operation and Control
21. Steam Traps
22. Refractories Selection, Application and Maintenance

III. Instrumentation and Control Courses for Utilities:

1. Industrial Measurements and Instruments
2. Programmable Logic Controllers
3. Automatic Control
4. Distributed Control Systems
5. Pneumatic Control Systems

IV. Electrical Power Courses Related to Utilities:

1. Substation Maintenance
2. Transformers Testing and Maintenance
3. Protective Relays
4. Switchgears Function and Selection
5. Circuit Breakers Maintenance
6. Cathodic Production Systems
7. Cables Testing and Fault Location
8. Uninterrupted Power Supply
9. Motors and Generators
10. Diesel Engines
11. Electrical Maintenance
12. Electrical Safety