



First Select

Centrifugal Pump Repair & Maintenance

Date	Venues	(\$) Fees	Book your seat
21 Dec -25 Dec 2025	Bahrain	2900	Register Now

Objectives:

1. Identify different types of pumps and their parts
2. Troubleshoot and install mechanical seals
3. Understand pump case repair methods
4. Develop a pump maintenance program

You Will Learn:

- Pumps Repairing
- Pumps Maintenance Preventive
- Troubleshooting Pumps

Who should attend?

- Multi-Craft Technicians
- Maintenance Technicians
- Foreman & Senior Foreman
- Pump System Engineers
- Water Treatment Engineers
- Boiler Operators & Technicians
- Stationary Engineers
- Mechanical & Millwright Technicians
- Building Engineers
- Plant / Facility Managers
- Anyone Interesting In Improving Pump Maintenance & Repair Knowledge!

Course Outline:

CENTRIFUGAL PUMP DESIGN & HISTORY:

- A Short History of Pumps
- Bernoulli's Principle & the Venturi Effect
- Centrifugal Pump Design

CENTRIFUGAL PUMP PARTS AND IDENTIFICATION:

- Wetted End Parts
- Dry End Part
- Pump Tree
- Drivers

PUMP BEARING REMOVAL & INSTALLATION:

- Bearing Types & Life
- Proper Installation of Pump Bearings

PUMP REPAIRING & MAINTENANCE:

BEARING FAILURE ANALYSIS

- Disassembling a Bearing for Inspection
- Troubleshooting Bearing Failures

ACOUSTICAL MEASUREMENT OF PUMP BEARING CONDITION:

- Creation of a Pothole Index
- Spalling and How to Determine When It Occurs
- Pump Bearings Condition Guide
- SPLIT CASE PUMP REBUILDING PROCEDURES & TECHNIQUES

PUMP CASE REPAIR:

- Spray Metalizing
- Epoxy Repair
- MIG & TIG Repair

SUCTION & DISCHARGE ENDS REPAIR:

- Piping
- End Suction Pump Rebuilding Procedures & Techniques

PUMP COUPLING AND SHAFT ALIGNMENT:

- Soft Foot Inspection & Correction
- Shaft Alignment Techniques

WETTED END PUMP TROUBLESHOOTING:

- Cavitation
- Unbalance of Impellers
- Volute Wear
- Piping Strain
- Air Entrainment
- Seal Failure
- Flange Leaks

WORKSHOP STYLE:

This will be a participative workshop with a mix of interactive learning sessions, exercises and discussions aimed to provide maximum impact and learning retention for all delegates.



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