



شركة ميرك العربية السعودية  
MEIRC Saudi Arabia

## Pumps Operation & Troubleshooting

**Duration 5 Days**

**Course objective:**

- Describe the basic functions of pumps and the major types of pumps.
- Describe the major components of pumps.
- Describe how pumps work.
- Operate pumps.
- Pumps Maintenance & Troubleshooting.

**Course Outline:**

**Day 1: Introduction to Pumps**

- Introduction to Pumps Categories & Types of each Category.
- The Function of six classes of Pumps.

**Day 2: Basic Components of Pumps**

- Sealing Mechanism.

**Day3: How Pumps Work**

- Define pump capacity, velocity, pressure, efficiency, and horsepower.
- Describe static suction lift, static suction head, and discharge head.

**Day4: Operating Pumps**

- The principles of pump operation.
- How to start up and shut down pumps.
- Pump operating conditions.

**Day 5: Pumps Maintenance & Troubleshooting**

- The routine preventive maintenance performed on pumps.

Centrifugal & Reciprocating Pumps Troubleshooting