



شركة ميرك العربية السعودية  
MEIRC Saudi Arabia

## Process Operations & Troubleshooting

**Duration: 5 Days**

**Who should attend:**

This course is designed to help maintenance engineers, supervisors and operators in troubleshooting process operations. The course covers troubleshooting of plant equipment such as pumps, compressors, turbines boilers and others.

**Course Objectives:**

By the end of this course participants should be able to:

- Understand unit processes
- List common problems in chemical plants
- Troubleshoot chemical plant equipment

**Course Outline:**

1. Introduction to unit processes / operations
2. Basics of plant equipment/functionality/operations
3. Conventional operational controls
4. Normal/Common problems associated with process
5. Problems associated with equipments
6. Handling abnormal situations
7. Troubleshooting problems in
  - a) Process heaters
  - b) Pumps
  - c) Compressors
  - d) Turbines
  - e) Boilers
  - f) Heat Exchangers
  - g) Coolers / Condensers
  - h) Refrigeration units
  - i) Distillation towers
  - j) Reactors
  - k) Vessels / Tanks
  - l) Safety systems
8. Equipment condition monitoring methods
9. Predicting probable failure time/preventive action
10. Case Studies