

**Course Overview:**

Thermal desalination technologies were introduced about 40 years ago and were able to expand access to water, but at high cost. Developments of new and improved technologies have now significantly broadened the opportunities to access major quantities of safe water in many parts of the world. Costs are still significant but there has been a reducing cost trend, and the option is much more widely available. When the alternative is no water or inadequate water greater cost may be endurable in many circumstances.

**Course Objective:**

By the end of this course, we are looking for the cheapest way for desalination of water. Thermal desalination technologies were introduced about 40 years ago and were able to expand access to water, but at high cost. Developments of new and improved technologies have now significantly broadened the opportunities to access major quantities of safe water in many parts of the world. Costs are still significant but there has been a reducing cost trend, and the option is much more widely available. When the alternative is no water or inadequate water greater cost may be endurable in many circumstances.

**Course Outline:**

- BASICS OF THERMAL DESALINATION
- COMBINED POWER AND THERMAL DESALINATION PLANT
- THERMAL DESALINATION PLANT INTERFACES WITH THE REST OF THE YARD
- BASICS OF THE PROCESS AND THE TECHNOLOGY
- MULTIPLE EFFECT DISTILLATION (MED) TECHNOLOGY
- THE IMPORTANCE OF MATERIAL SELECTION ON WATER COST
- PLANT OPERATIONAL MONITORING AND TROUBLESHOOTING

**Who Should Attend:**

- Mechanical Engineers
- Production Engineers
- Chemists
- Department Managers

**Training Language:**

EN / AR

**Training Methodology:**

- Presentation & Slides
- Audio Visual Aids
- Interactive Discussion
- Participatory Exercise
- Action Learning
- Class Activities
- Case Studies
- Workshops
- Simulation