

Course Overview:

Desalination technologies were introduced about 50 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:

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Course Outline:

- OVERVIEW OF DESALINATION TECHNOLOGIES
- REVERSE OSMOSIS FUNDAMENTALS
- PLANNING FOR SEAWATER DESALINATION PLANT
- SEAWATER INTAKES
- SEAWATER PRETREATMENT
- REVERSE OSMOSIS SYSTEM CONFIGURATION
- DESALINATION PLANT ENERGY USE
- SEAWATER CONCENTRATE DISPOSAL
- DESALINATION PLANT PERFORMANCE ANALYSIS AND OPTIMIZATION
- DESALINATION PLANT OPERATIONAL MONITORING AND TROUBLESHOOTING
- DESALINATION PLANT CASE STUDIES
- OPERATION AND MONITORING OF SMALL PLANTS

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