

## **Online Course on seawater reverse osmosis desalination**

This online course is ideal for any one requiring a thorough practical understanding of the basic principles of reverse osmosis desalination. This course is essential for water treatment professionals as it will improve knowledge and proficiency, assist with training employees and in solving challenging problems.

### **For whom**

RO operations and maintenance personnel, staff involved in the design of RO systems. Research staff and academics involved in desalination projects,

### **Dates, Fee, ECTS**

200 euros

### **Learning objectives**

Participants will receive training documentation once the student has enrolled into the course, and the course should be completed in two weeks with an extra period of week. The course will be a self-taught course with complete support from trainer during course period. A different number of assignments will be submitted (1 or 2 every week) for completion. Once completed the course, the participant will receive a certificate.

### **Course content**

1. The theory, process and equipment of membrane water treatment systems
2. The most common water treatment schemes used for drinking water, power generation, pharmaceutical, biotech, semiconductor and other applications
3. Understanding different feed water
4. Pretreatment technologies required to protect reverse osmosis and nanofiltration units including microfiltration and ultrafiltration
5. Basic hand tools, equipment, chemical injections, safety and troubleshooting of water treatment systems
6. Piping and instrumentation diagrams
7. Pumps, valves, gauges and meters
8. Fundamental monitoring and troubleshooting skills required to effectively operate and maintain a membrane water treatment system