

WATER QUALITY, SAMPLING AND HYGIENIC WORKING

Information

<i>Target group:</i>	Water system operator (including First level response operator)
<i>Entry level:</i>	Vocational level
<i>Entry level description:</i>	in combination with the certificate of course Basics of Water Distribution

Learning targets

The availability of clean drinking water is essential for human health. To make tap water suitable for human consumption it needs to be of good quality and thus free from chemical or biological contamination. Pipelines and utilities have to be kept clean at all times. Every human interference can contaminate the water. To prevent contamination, hygienic working is needed when handling equipment and utilities that get into contact with the water.

This course explains the basics of chemistry and microbiology and how the chemical and microbiological composition of the water relate to water quality.

You will learn how to take samples for quality control and how to handle the drinking water utilities in an hygienic manner to prevent contamination of the water.

Content

These topics are covered:

- Basics of chemistry and microbiology
- Water quality
- Sampling
- Hygienic working
- Data analysis

Outcome

After successfully completing this course you will know how the water quality is affected by the chemical and microbiological composition. You can put the hygienic working principles into practice. You can take samples without contaminating them.

Course material

Course book and presentation handouts.

Training approach

In addition to classroom presentations this course demonstrates interactive and innovative training methods, such as group work, discussions, practical exercises, demonstrations and role-plays. You will have the opportunity to hands-on-train your hygienic working skills.

The training methods are tailored to the objectives of the training.

Extra

This course is one of five modules of the overall course *Water Distribution and Control* for Water System Operators. After successfully completing the five modules, the participant will be awarded a diploma.