



MAINTENANCE AND ENGINEERING | ME-021

Water Treatment Plant Operation

Contact

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Course content

Why Attend

Water treatment plants must reliably deliver safe water that meets quality standards. Operators need sound knowledge of treatment processes, chemistry, equipment and monitoring.

This Aractech course covers raw water quality, coagulation and flocculation, sedimentation, filtration, disinfection, chemical dosing, sludge handling, monitoring and laboratory testing, process control and safety. Participants solve operational problems in case studies.

Course Methodology

- Process presentations
- Calculation exercises
- Case studies
- Troubleshooting workshops
- Group discussions

Course Objectives

- Understand raw water quality and treatment objectives
- Operate coagulation, sedimentation and filtration
- Manage disinfection and chemical dosing
- Monitor water quality and process performance
- Handle sludge and residuals
- Troubleshoot plant operations safely

Target Audience

- Water treatment operators
- Utility engineers

Course content

- Plant supervisors
- Laboratory technicians

Course outline

Detailed course outline

Day-by-day outline for Water Treatment Plant Operation.

Day 1 - Water Quality

- 09:00-09:45 | Raw water sources
- 09:45-10:30 | Quality parameters
- 10:30-11:00 | Standards
- 11:00-11:30 | Coffee break
- 11:30-11:45 | Standards (continued)
- 11:45-12:30 | Treatment objectives
- 12:30-14:00 | Exercise: Water quality review

Day 2 - Clarification

- 09:00-09:45 | Coagulation
- 09:45-10:30 | Flocculation
- 10:30-11:00 | Sedimentation
- 11:00-11:30 | Coffee break
- 11:30-11:45 | Sedimentation (continued)
- 11:45-12:30 | Jar testing
- 12:30-14:00 | Lab: Dose calculation

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Day 3 - Filtration and Disinfection

- 09:00-09:54 | Filtration types
- 09:54-10:48 | Backwashing
- 10:48-11:00 | Disinfection methods
- 11:00-11:30 | Coffee break
- 11:30-12:12 | Disinfection methods (continued)
- 12:12-13:06 | Chlorine dosing
- 13:06-14:00 | By-products

Day 4 - Monitoring and Control

- 09:00-09:39 | Online monitoring
- 09:39-10:56 | Laboratory testing
- 10:56-11:00 | Process control
- 11:00-11:30 | Coffee break
- 11:30-12:05 | Process control (continued)
- 12:05-12:43 | Records
- 12:43-14:00 | Workshop: Monitoring plan

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Day 5 - Operations and Safety

- 09:00-09:54 | Sludge handling
- 09:54-10:48 | Chemical safety
- 10:48-11:00 | Troubleshooting
- 11:00-11:30 | Coffee break
- 11:30-12:12 | Troubleshooting (continued)
- 12:12-13:06 | Emergency response
- 13:06-14:00 | Capstone: Operational problem solving

Seminar dates

Available seminar dates

Live dates and pricing for Water Treatment Plant Operation generated from the course details page.

Date	Location	Format	Fee
2 - 6 November 2026	Rome	Classroom	€3,460
21 - 25 December 2026	Kuala lumpur	Classroom	€1,925
18 - 22 January 2027	Vienna	Classroom	€3,225
15 - 19 February 2027	Barcelona	Classroom	€2,815
15 - 19 March 2027	Cape Town	Classroom	€1,625
19 - 23 April 2027	Frankfurt	Classroom	€1,875
17 - 21 May 2027	Barcelona	Classroom	€2,815
21 - 25 June 2027	Frankfurt	Classroom	€1,875
19 - 23 July 2027	Rome	Classroom	€3,460
16 - 20 August 2027	Kuala lumpur	Classroom	€1,925

Seminar dates

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Live dates and pricing for Water Treatment Plant Operation generated from the course details page.

Date	Location	Format	Fee
20 - 24 September 2027	Vienna	Classroom	€3,225
18 - 22 October 2027	Barcelona	Classroom	€2,815
15 - 19 November 2027	Paris	Classroom	€3,825
20 - 24 December 2027	Frankfurt	Classroom	€1,875
2 - 6 November 2026	Online / Live	Online / Live	€1,815
21 - 25 December 2026	Online / Live	Online / Live	€1,815
18 - 22 January 2027	Online / Live	Online / Live	€1,815
15 - 19 February 2027	Online / Live	Online / Live	€1,815
15 - 19 March 2027	Online / Live	Online / Live	€1,815
19 - 23 April 2027	Online / Live	Online / Live	€1,815

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Date	Location	Format	Fee
17 - 21 May 2027	Online / Live	Online / Live	€1,815
21 - 25 June 2027	Online / Live	Online / Live	€1,815
19 - 23 July 2027	Online / Live	Online / Live	€1,815
16 - 20 August 2027	Online / Live	Online / Live	€1,815
20 - 24 September 2027	Online / Live	Online / Live	€1,815
18 - 22 October 2027	Online / Live	Online / Live	€1,815
15 - 19 November 2027	Online / Live	Online / Live	€1,815
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