



HEALTH SAFETY AND ENVIRONMENT | HSE-035

Water and Wastewater Management for Industry

Contact

+31 85 7444446
info@aractech.com
<https://aractech.com>

Address

Waarderweg 50, 2031PB Haarlem - Netherlands.

Course content

Why Attend

Industry uses and discharges large volumes of water. Water scarcity, stricter discharge standards and stakeholder scrutiny make effective water management a business priority.

This Aractech course covers water risk assessment, water balances, water efficiency, wastewater characteristics, treatment technologies, discharge permits and monitoring, reuse and recycling, and water management strategies. Participants develop a water management plan for a case facility.

Course Methodology

- Technical presentations
- Water balance exercise
- Case studies
- Treatment selection workshop
- Planning

Course Objectives

- Assess water risks and dependencies
- Build site water balances
- Improve water efficiency
- Understand wastewater treatment technologies
- Comply with discharge permits and monitoring
- Develop water reuse and management strategies

Target Audience

- Environmental and HSE professionals
- Plant and utility engineers

Course content

- Operations managers
- Sustainability managers

Course outline

Detailed course outline

Day-by-day outline for Water and Wastewater Management for Industry.

Day 1 - Water in Industry

- 09:00-09:39 | Water uses
- 09:39-10:18 | Water risks
- 10:18-10:57 | Regulation
- 10:57-11:00 | Stakeholder expectations
- 11:00-11:30 | Coffee break
- 11:30-12:05 | Stakeholder expectations (continued)
- 12:05-12:43 | Water accounting
- 12:43-14:00 | Exercise: Water risk assessment

Day 2 - Water Balance and Efficiency

- 09:00-09:39 | Site water balance
- 09:39-10:18 | Metering
- 10:18-10:57 | Efficiency opportunities
- 10:57-11:00 | Cooling water
- 11:00-11:30 | Coffee break
- 11:30-12:05 | Cooling water (continued)
- 12:05-12:43 | Cleaning processes
- 12:43-14:00 | Lab: Building a water balance

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Day 3 - Wastewater Treatment

- 09:00-09:39 | Wastewater characteristics
- 09:39-10:18 | Physical and chemical treatment
- 10:18-10:57 | Biological treatment
- 10:57-11:00 | Advanced treatment
- 11:00-11:30 | Coffee break
- 11:30-12:05 | Advanced treatment (continued)
- 12:05-12:43 | Sludge management
- 12:43-14:00 | Exercise: Treatment selection

Day 4 - Discharge Compliance

- 09:00-09:39 | Discharge permits
- 09:39-10:18 | Monitoring
- 10:18-10:57 | Sampling
- 10:57-11:00 | Reporting
- 11:00-11:30 | Coffee break
- 11:30-12:05 | Reporting (continued)
- 12:05-12:43 | Incident response
- 12:43-14:00 | Case study: Discharge exceedance

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Day 5 - Reuse and Strategy

- 09:00-09:45 | Water reuse
- 09:45-10:30 | Zero liquid discharge
- 10:30-11:00 | Targets
- 11:00-11:30 | Coffee break
- 11:30-11:45 | Targets (continued)
- 11:45-12:30 | Investment planning
- 12:30-13:15 | Reporting
- 13:15-14:00 | Capstone: Water management plan

Seminar dates

Available seminar dates

Live dates and pricing for Water and Wastewater Management for Industry generated from the course details page.

Date	Location	Format	Fee
2 - 6 November 2026	London	Classroom	€2,315
21 - 25 December 2026	Istanbul	Classroom	€1,978
18 - 22 January 2027	Istanbul	Classroom	€1,978
15 - 19 February 2027	Cape Town	Classroom	€1,625
15 - 19 March 2027	Barcelona	Classroom	€2,815
19 - 23 April 2027	Rome	Classroom	€3,460
17 - 21 May 2027	Geneva	Classroom	€4,315
21 - 25 June 2027	Dubai	Classroom	€1,845
19 - 23 July 2027	London	Classroom	€2,315
16 - 20 August 2027	Istanbul	Classroom	€1,978

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20 - 24 December 2027	Rome	Classroom	€3,460
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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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
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