



HEALTH SAFETY AND ENVIRONMENT | HSE-034

Air Quality and Emissions Monitoring

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Course content

Why Attend

Industrial facilities must monitor and control emissions to air to protect health and comply with permits. Air quality is also an increasing concern for communities and regulators.

This Aractech course explains air pollutants and their effects, emission sources, regulatory frameworks and permits, monitoring methods including continuous emissions monitoring systems, ambient air monitoring, data management, reporting and emission control technologies. Participants design a monitoring programme.

Course Methodology

- Technical presentations
- Monitoring design exercise
- Data interpretation
- Case studies
- Group discussions

Course Objectives

- Explain air pollutants and health effects
- Identify industrial emission sources
- Understand regulations and permit conditions
- Select emission and ambient monitoring methods
- Manage and report monitoring data
- Evaluate emission control technologies

Target Audience

- Environmental engineers and officers
- HSE professionals



Course content

- Plant managers
- Regulators

Course outline

Detailed course outline

Day-by-day outline for Air Quality and Emissions Monitoring.

Day 1 - Air Pollution Fundamentals

- 09:00-09:39 | Pollutants and effects
- 09:39-10:18 | Emission sources
- 10:18-10:57 | Dispersion
- 10:57-11:00 | Air quality standards
- 11:00-11:30 | Coffee break
- 11:30-12:05 | Air quality standards (continued)
- 12:05-12:43 | Regulation
- 12:43-14:00 | Exercise: Source inventory

Day 2 - Emissions Monitoring

- 09:00-09:39 | Stack monitoring
- 09:39-10:18 | Continuous emissions monitoring systems
- 10:18-10:57 | Periodic testing
- 10:57-11:00 | Quality assurance
- 11:00-11:30 | Coffee break
- 11:30-12:05 | Quality assurance (continued)
- 12:05-12:43 | Calibration
- 12:43-14:00 | Workshop: Monitoring programme

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Day 3 - Ambient Monitoring

- 09:00-09:39 | Ambient networks
- 09:39-10:18 | Sensors
- 10:18-10:57 | Fugitive emissions
- 10:57-11:00 | Odour
- 11:00-11:30 | Coffee break
- 11:30-12:05 | Odour (continued)
- 12:05-12:43 | Community concerns
- 12:43-14:00 | Exercise: Ambient data review

Day 4 - Data and Reporting

- 09:00-09:39 | Data management
- 09:39-10:18 | Permit compliance
- 10:18-10:57 | Reporting
- 10:57-11:00 | Exceedance management
- 11:00-11:30 | Coffee break
- 11:30-12:05 | Exceedance management (continued)
- 12:05-12:43 | Transparency
- 12:43-14:00 | Case study: Permit breach

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Day 5 - Emission Control

- 09:00-09:45 | Control technologies
- 09:45-10:30 | Combustion optimisation
- 10:30-11:00 | Abatement selection
- 11:00-11:30 | Coffee break
- 11:30-11:45 | Abatement selection (continued)
- 11:45-12:30 | Costs
- 12:30-13:15 | Improvement planning
- 13:15-14:00 | Capstone: Air quality management plan

Seminar dates

Available seminar dates

Live dates and pricing for Air Quality and Emissions Monitoring generated from the course details page.

Date	Location	Format	Fee
2 - 6 November 2026	Istanbul	Classroom	€1,978
21 - 25 December 2026	Vienna	Classroom	€3,225
18 - 22 January 2027	London	Classroom	€2,315
15 - 19 February 2027	Munich	Classroom	€3,225
15 - 19 March 2027	Rome	Classroom	€3,460
19 - 23 April 2027	Munich	Classroom	€3,225
17 - 21 May 2027	Amsterdam	Classroom	€2,830
21 - 25 June 2027	London	Classroom	€2,315
19 - 23 July 2027	Istanbul	Classroom	€1,978
16 - 20 August 2027	Vienna	Classroom	€3,225

Seminar dates

Available seminar dates

Live dates and pricing for Air Quality and Emissions Monitoring generated from the course details page.

Date	Location	Format	Fee
20 - 24 September 2027	London	Classroom	€2,315
18 - 22 October 2027	Munich	Classroom	€3,225
15 - 19 November 2027	Rome	Classroom	€3,460
20 - 24 December 2027	Munich	Classroom	€3,225
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

Seminar dates

Available seminar dates

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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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