



OIL AND GAS | OG-046

Methane Emissions Detection and Reduction

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Course content

Why Attend

Methane is a powerful greenhouse gas, and oil and gas operations are one of its largest human-made sources. New regulations, including the EU methane regulation, and investor expectations are requiring companies to measure, report and sharply reduce methane emissions.

This Aractech course explains methane emission sources across the value chain, detection and measurement technologies from handheld cameras to satellites, leak detection and repair programmes, reporting frameworks and the most cost-effective reduction measures. Participants build a methane management plan suited to their own operations.

Course Methodology

- Technical presentations
- Technology demonstrations and videos
- Quantification exercises
- Case studies
- Planning workshops

Course Objectives

- Identify methane emission sources in oil and gas operations
- Understand detection and measurement technologies
- Design leak detection and repair programmes
- Quantify and report methane emissions
- Select cost-effective reduction measures
- Comply with emerging methane regulations

Course content

| Target Audience

- Environmental and emissions engineers
- Operations and maintenance staff
- HSE and compliance professionals
- Sustainability managers

Course outline

Detailed course outline

Day-by-day outline for Methane Emissions Detection and Reduction.

Day 1 - Methane and the Oil and Gas Industry

- 09:00-09:39 | Methane as a greenhouse gas
- 09:39-10:18 | Sources across the value chain
- 10:18-10:57 | Industry and policy initiatives
- 10:57-11:00 | Regulatory developments
- 11:00-11:30 | Coffee break
- 11:30-12:05 | Regulatory developments (continued)
- 12:05-12:43 | Business case for reduction
- 12:43-14:00 | Exercise: Source mapping

Day 2 - Detection and Measurement

- 09:00-09:39 | Optical gas imaging
- 09:39-10:18 | Continuous monitoring sensors
- 10:18-10:57 | Aerial and satellite detection
- 10:57-11:00 | Measurement versus estimation
- 11:00-11:30 | Coffee break
- 11:30-12:05 | Measurement versus estimation (continued)
- 12:05-12:43 | Data management
- 12:43-14:00 | Case study: Satellite-detected super-emitter

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Day 3 - Leak Detection and Repair

- 09:00-10:07 | LDAR programme design
- 10:07-10:41 | Survey frequency and coverage
- 10:41-11:00 | Repair prioritisation
- 11:00-11:30 | Coffee break
- 11:30-11:45 | Repair prioritisation (continued)
- 11:45-12:19 | Documentation
- 12:19-12:53 | Performance tracking
- 12:53-14:00 | Workshop: Designing an LDAR programme

Day 4 - Reduction Measures

- 09:00-09:39 | Pneumatic devices replacement
- 09:39-10:18 | Compressor seals and vents
- 10:18-10:57 | Tank vapour control
- 10:57-11:00 | Venting and flaring reduction
- 11:00-11:30 | Coffee break
- 11:30-12:05 | Venting and flaring reduction (continued)
- 12:05-12:43 | Cost-effectiveness
- 12:43-14:00 | Exercise: Abatement cost curve

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Day 5 - Reporting and Management

- 09:00-09:45 | Reporting frameworks
- 09:45-10:30 | Verification
- 10:30-11:00 | Targets and roadmaps
- 11:00-11:30 | Coffee break
- 11:30-11:45 | Targets and roadmaps (continued)
- 11:45-12:30 | Supply chain expectations
- 12:30-13:15 | Continuous improvement
- 13:15-14:00 | Capstone: Methane management plan

Seminar dates

Available seminar dates

Live dates and pricing for Methane Emissions Detection and Reduction generated from the course details page.

Date	Location	Format	Fee
9 - 13 November 2026	Amsterdam	Classroom	€2,830
14 - 18 December 2026	London	Classroom	€2,315
18 - 22 January 2027	Frankfurt	Classroom	€1,875
15 - 19 February 2027	Barcelona	Classroom	€2,815
15 - 19 March 2027	Munich	Classroom	€3,225
19 - 23 April 2027	Rome	Classroom	€3,460
17 - 21 May 2027	Munich	Classroom	€3,225
21 - 25 June 2027	Amsterdam	Classroom	€2,830
19 - 23 July 2027	London	Classroom	€2,315
16 - 20 August 2027	Frankfurt	Classroom	€1,875

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9 - 13 November 2026	Online / Live	Online / Live	€1,815
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19 - 23 April 2027	Online / Live	Online / Live	€1,815

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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
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