



OIL AND GAS | OG-042

Production Optimisation and Artificial Lift

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Course content

Why Attend

Maximising production from existing wells is often the fastest and cheapest way to increase output and revenue. Production optimisation combines well performance analysis, artificial lift, surveillance and systematic problem solving.

This Aractech course covers well inflow and outflow performance, nodal analysis, artificial lift methods including gas lift, electrical submersible pumps, rod pumps and progressive cavity pumps, production surveillance and the use of digital tools to optimise production. Participants practise identifying underperforming wells and selecting remedies.

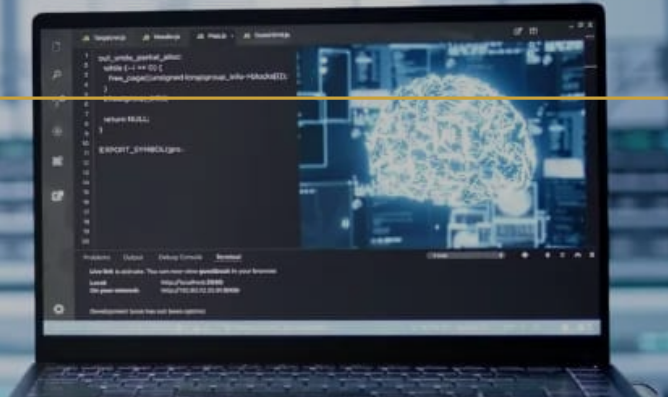
Course Methodology

- Concept lectures and calculations
- Nodal analysis exercises
- Artificial lift case studies
- Surveillance data workshops
- Group problem-solving

Course Objectives

- Analyse well inflow and outflow performance
- Apply nodal analysis concepts
- Compare artificial lift methods and select appropriately
- Optimise gas lift and pump performance
- Use surveillance data to identify opportunities
- Build a production optimisation programme

Course content



Target Audience

- Production engineers
- Petroleum engineers
- Field operations supervisors
- Artificial lift specialists

Course outline

Detailed course outline

Day-by-day outline for Production Optimisation and Artificial Lift.

Day 1 - Well Performance

- 09:00-09:39 | Inflow performance relationships
- 09:39-10:18 | Outflow and tubing performance
- 10:18-10:57 | Nodal analysis
- 10:57-11:00 | Skin and formation damage
- 11:00-11:30 | Coffee break
- 11:30-12:05 | Skin and formation damage (continued)
- 12:05-12:43 | Production constraints
- 12:43-14:00 | Exercise: Nodal analysis

Day 2 - Artificial Lift Selection

- 09:00-09:39 | Artificial lift overview
- 09:39-10:18 | Selection criteria
- 10:18-10:57 | Gas lift principles
- 10:57-11:00 | ESP principles
- 11:00-11:30 | Coffee break
- 11:30-12:05 | ESP principles (continued)
- 12:05-12:43 | Rod and PCP pumps
- 12:43-14:00 | Workshop: Lift selection

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Day 3 - Optimising Lift Systems

- 09:00-09:39 | Gas lift optimisation
- 09:39-10:18 | ESP performance and failures
- 10:18-10:57 | Rod pump diagnostics
- 10:57-11:00 | Energy efficiency
- 11:00-11:30 | Coffee break
- 11:30-12:05 | Energy efficiency (continued)
- 12:05-12:43 | Run-life improvement
- 12:43-14:00 | Case study: ESP failure analysis

Day 4 - Production Surveillance

- 09:00-09:39 | Well testing and allocation
- 09:39-10:18 | Surveillance data
- 10:18-10:57 | Identifying underperforming wells
- 10:57-11:00 | Well interventions
- 11:00-11:30 | Coffee break
- 11:30-12:05 | Well interventions (continued)
- 12:05-12:43 | Water and gas management
- 12:43-14:00 | Exercise: Well review

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Day 5 - Optimisation Programmes

- 09:00-09:45 | Digital oilfield tools
- 09:45-10:30 | Integrated production modelling
- 10:30-11:00 | Optimisation workflows
- 11:00-11:30 | Coffee break
- 11:30-11:45 | Optimisation workflows (continued)
- 11:45-12:30 | KPIs
- 12:30-13:15 | Organisation and processes
- 13:15-14:00 | Capstone: Production optimisation plan

Seminar dates

Available seminar dates

Live dates and pricing for Production Optimisation and Artificial Lift generated from the course details page.

Date	Location	Format	Fee
2 - 6 November 2026	London	Classroom	€2,315
21 - 25 December 2026	Munich	Classroom	€3,225
18 - 22 January 2027	Frankfurt	Classroom	€1,875
15 - 19 February 2027	Barcelona	Classroom	€2,815
15 - 19 March 2027	Frankfurt	Classroom	€1,875
19 - 23 April 2027	Rome	Classroom	€3,460
17 - 21 May 2027	Kuala Lumpur	Classroom	€1,925
21 - 25 June 2027	Barcelona	Classroom	€2,815
19 - 23 July 2027	London	Classroom	€2,315
16 - 20 August 2027	Munich	Classroom	€3,225

Seminar dates

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20 - 24 September 2027	Frankfurt	Classroom	€1,875
18 - 22 October 2027	Barcelona	Classroom	€2,815
15 - 19 November 2027	Frankfurt	Classroom	€1,875
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
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16 - 20 August 2027	Online / Live	Online / Live	€1,815
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