



OIL AND GAS | OG-065

# Rotating Equipment in Oil and Gas Facilities

## Contact

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## Address

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# Course content

## Why Attend

Pumps, compressors, turbines and other rotating machines are essential to oil and gas production, processing and transport. Their reliability directly affects uptime, safety and costs.

This Aractech course covers the selection, operation, maintenance and troubleshooting of rotating equipment in oil and gas facilities, including centrifugal and reciprocating compressors, pumps, gas turbines, seals and bearings, lubrication, condition monitoring and reliability improvement. Participants analyse failure cases and develop maintenance strategies.

## Course Methodology

- Technical lectures
- Failure case studies
- Performance exercises
- Troubleshooting workshops
- Group discussions

## Course Objectives

- Describe rotating equipment used in oil and gas facilities
- Understand operating principles and performance
- Apply maintenance strategies for critical machines
- Use condition monitoring to detect faults
- Troubleshoot common failures
- Improve rotating equipment reliability

## Target Audience

- Rotating equipment engineers

# Course content

- Mechanical maintenance engineers
- Reliability engineers
- Operations supervisors

# Course outline

## Detailed course outline

Day-by-day outline for Rotating Equipment in Oil and Gas Facilities.

### Day 1 - Rotating Equipment in Oil and Gas

- 09:00-09:39 | Equipment types and applications
- 09:39-10:18 | Critical machines
- 10:18-10:57 | Standards
- 10:57-11:00 | Equipment selection
- 11:00-11:30 | Coffee break
- 11:30-12:05 | Equipment selection (continued)
- 12:05-12:43 | Reliability context
- 12:43-14:00 | Exercise: Criticality review

### Day 2 - Pumps and Compressors

- 09:00-09:39 | Centrifugal pumps
- 09:39-10:18 | Centrifugal compressors
- 10:18-10:57 | Reciprocating compressors
- 10:57-11:00 | Performance curves
- 11:00-11:30 | Coffee break
- 11:30-12:05 | Performance curves (continued)
- 12:05-12:43 | Operating limits
- 12:43-14:00 | Exercise: Performance analysis

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### Day 3 - Turbines and Drivers

- 09:00-09:39 | Gas turbines
- 09:39-10:18 | Steam turbines
- 10:18-10:57 | Electric motors
- 10:57-11:00 | Couplings and gearboxes
- 11:00-11:30 | Coffee break
- 11:30-12:05 | Couplings and gearboxes (continued)
- 12:05-12:43 | Control systems
- 12:43-14:00 | Case study: Turbine trip

### Day 4 - Maintenance and Monitoring

- 09:00-09:39 | Seals and bearings
- 09:39-10:18 | Lubrication
- 10:18-10:57 | Vibration monitoring
- 10:57-11:00 | Performance monitoring
- 11:00-11:30 | Coffee break
- 11:30-12:05 | Performance monitoring (continued)
- 12:05-12:43 | Overhaul planning
- 12:43-14:00 | Workshop: Maintenance strategy

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### **Day 5 - Troubleshooting and Reliability**

- 09:00-09:45 | Failure analysis
- 09:45-10:30 | Root cause analysis
- 10:30-11:00 | Bad actor management
- 11:00-11:30 | Coffee break
- 11:30-11:45 | Bad actor management (continued)
- 11:45-12:30 | KPIs
- 12:30-13:15 | Reliability improvement
- 13:15-14:00 | Capstone: Reliability improvement plan

# Seminar dates

## Available seminar dates

Live dates and pricing for Rotating Equipment in Oil and Gas Facilities generated from the course details page.

| Date                  | Location  | Format    | Fee    |
|-----------------------|-----------|-----------|--------|
| 16 - 20 November 2026 | Barcelona | Classroom | €2,815 |
| 7 - 11 December 2026  | Istanbul  | Classroom | €1,978 |
| 21 - 25 December 2026 | Amsterdam | Classroom | €2,830 |
| 18 - 22 January 2027  | Paris     | Classroom | €3,825 |
| 15 - 19 February 2027 | Barcelona | Classroom | €2,815 |
| 15 - 19 March 2027    | London    | Classroom | €2,315 |
| 19 - 23 April 2027    | Munich    | Classroom | €3,225 |
| 17 - 21 May 2027      | Amsterdam | Classroom | €2,830 |
| 21 - 25 June 2027     | Istanbul  | Classroom | €1,978 |
| 19 - 23 July 2027     | London    | Classroom | €2,315 |

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| Date                   | Location      | Format        | Fee    |
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| 16 - 20 August 2027    | Barcelona     | Classroom     | €2,815 |
| 20 - 24 September 2027 | Istanbul      | Classroom     | €1,978 |
| 18 - 22 October 2027   | Dubai         | Classroom     | €1,845 |
| 15 - 19 November 2027  | Paris         | Classroom     | €3,825 |
| 20 - 24 December 2027  | Barcelona     | Classroom     | €2,815 |
| 16 - 20 November 2026  | Online / Live | Online / Live | €1,815 |
| 7 - 11 December 2026   | Online / Live | Online / Live | €1,815 |
| 21 - 25 December 2026  | Online / Live | Online / Live | €1,815 |
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