



MAINTENANCE AND ENGINEERING | ME-015

Mechanical Seals and Bearings Maintenance

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Course content

Why Attend

Mechanical seals and bearings are among the most common causes of rotating equipment failure. Understanding how they work and fail allows technicians to extend equipment life significantly.

This Aractech course covers seal types and flush plans, seal installation and failure analysis, bearing types and selection, mounting and dismounting, lubrication, condition monitoring and bearing failure analysis. Participants analyse failed components and plan improvements.

Course Methodology

- Technical presentations
- Component demonstrations
- Failure analysis exercises
- Case studies
- Group discussions

Course Objectives

- Explain mechanical seal types and operation
- Select seal flush plans and support systems
- Install seals and diagnose seal failures
- Select, mount and lubricate bearings
- Monitor bearing condition
- Analyse bearing failures and improve reliability

Target Audience

- Mechanical technicians
- Maintenance engineers

Course content

- Reliability engineers
- Rotating equipment specialists

Course outline

Detailed course outline

Day-by-day outline for Mechanical Seals and Bearings Maintenance.

Day 1 - Mechanical Seals

- 09:00-09:39 | Seal principles
- 09:39-10:18 | Seal types
- 10:18-10:57 | Materials
- 10:57-11:00 | Flush plans
- 11:00-11:30 | Coffee break
- 11:30-12:05 | Flush plans (continued)
- 12:05-12:43 | Seal selection
- 12:43-14:00 | Exercise: Seal selection

Day 2 - Seal Installation and Failures

- 09:00-09:45 | Installation practices
- 09:45-10:30 | Commissioning
- 10:30-11:00 | Failure modes
- 11:00-11:30 | Coffee break
- 11:30-11:45 | Failure modes (continued)
- 11:45-12:30 | Failure analysis
- 12:30-14:00 | Case study: Seal failure

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Day 3 - Bearings

- 09:00-09:39 | Bearing types
- 09:39-10:18 | Load and life
- 10:18-10:57 | Selection
- 10:57-11:00 | Mounting and dismounting
- 11:00-11:30 | Coffee break
- 11:30-12:05 | Mounting and dismounting (continued)
- 12:05-12:43 | Tools
- 12:43-14:00 | Demonstration: Bearing mounting

Day 4 - Lubrication and Monitoring

- 09:00-09:45 | Lubrication methods
- 09:45-10:30 | Grease and oil
- 10:30-11:00 | Contamination
- 11:00-11:30 | Coffee break
- 11:30-11:45 | Contamination (continued)
- 11:45-12:30 | Vibration and temperature monitoring
- 12:30-14:00 | Exercise: Lubrication plan

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Day 5 - Bearing Failure Analysis

- 09:00-09:54 | Failure modes
- 09:54-10:48 | Damage patterns
- 10:48-11:00 | Root causes
- 11:00-11:30 | Coffee break
- 11:30-12:12 | Root causes (continued)
- 12:12-13:06 | Reliability improvements
- 13:06-14:00 | Capstone: Reliability improvement plan

Seminar dates

Available seminar dates

Live dates and pricing for Mechanical Seals and Bearings Maintenance generated from the course details page.

Date	Location	Format	Fee
2 - 6 November 2026	Barcelona	Classroom	€2,815
21 - 25 December 2026	Frankfurt	Classroom	€1,875
18 - 22 January 2027	London	Classroom	€2,315
15 - 19 February 2027	Istanbul	Classroom	€1,978
15 - 19 March 2027	Vienna	Classroom	€3,225
19 - 23 April 2027	Barcelona	Classroom	€2,815
17 - 21 May 2027	Paris	Classroom	€3,825
21 - 25 June 2027	Frankfurt	Classroom	€1,875
19 - 23 July 2027	Barcelona	Classroom	€2,815
16 - 20 August 2027	Frankfurt	Classroom	€1,875

Seminar dates

Available seminar dates

Live dates and pricing for Mechanical Seals and Bearings Maintenance generated from the course details page.

Date	Location	Format	Fee
20 - 24 September 2027	London	Classroom	€2,315
18 - 22 October 2027	Istanbul	Classroom	€1,978
15 - 19 November 2027	Cape Town	Classroom	€1,625
20 - 24 December 2027	Barcelona	Classroom	€2,815
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
20 - 24 December 2027	Online / Live	Online / Live	€1,815