



OIL AND GAS | OG-054

Petroleum Product Quality, Testing and Specifications

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Course content

Why Attend

Fuels and petroleum products must meet strict quality specifications for performance, safety and environmental compliance. Off-spec products cause customer claims, equipment damage, regulatory penalties and commercial losses.

This Aractech course explains product specifications for gasoline, diesel, jet fuel, fuel oil, LPG and lubricants, the standard test methods used to verify them, sampling, quality control in storage and distribution, contamination prevention and handling of quality disputes. Participants learn to interpret certificates of quality and laboratory results.

Course Methodology

- Technical presentations
- Certificate of quality interpretation exercises
- Case studies of contamination
- Sampling demonstrations
- Group discussions

Course Objectives

- Explain key specifications for major petroleum products
- Understand standard test methods and their significance
- Apply correct sampling procedures
- Maintain quality through storage and distribution
- Prevent and investigate contamination
- Handle quality claims and disputes

Course content

| Target Audience

- Laboratory chemists and technicians
- Quality control staff
- Terminal and depot operators
- Fuel traders and inspectors

Course outline

Detailed course outline

Day-by-day outline for Petroleum Product Quality, Testing and Specifications.

Day 1 - Petroleum Products and Specifications

- 09:00-09:39 | Product types and uses
- 09:39-10:18 | Specification standards
- 10:18-10:57 | Key properties
- 10:57-11:00 | Regulatory requirements
- 11:00-11:30 | Coffee break
- 11:30-12:05 | Regulatory requirements (continued)
- 12:05-12:43 | Product grades
- 12:43-14:00 | Exercise: Reading specifications

Day 2 - Test Methods

- 09:00-09:39 | Distillation and volatility
- 09:39-10:18 | Density and viscosity
- 10:18-10:57 | Flash point and cold flow properties
- 10:57-11:00 | Sulphur and contaminants
- 11:00-11:30 | Coffee break
- 11:30-12:05 | Sulphur and contaminants (continued)
- 12:05-12:43 | Octane and cetane
- 12:43-14:00 | Workshop: Interpreting lab results

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Day 3 - Sampling and Quality Control

- 09:00-09:34 | Sampling standards
- 09:34-10:08 | Sample handling
- 10:08-11:00 | Laboratory quality assurance
- 11:00-11:30 | Coffee break
- 11:30-11:45 | Laboratory quality assurance (continued)
- 11:45-12:19 | Proficiency testing
- 12:19-12:53 | Certificates of quality
- 12:53-14:00 | Exercise: Sampling plan

Day 4 - Storage and Distribution

- 09:00-09:39 | Tank management
- 09:39-10:18 | Product segregation
- 10:18-10:57 | Contamination sources
- 10:57-11:00 | Additives
- 11:00-11:30 | Coffee break
- 11:30-12:05 | Additives (continued)
- 12:05-12:43 | Aviation fuel quality
- 12:43-14:00 | Case study: Contaminated cargo

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Day 5 - Claims and Improvement

- 09:00-09:45 | Quality claims
- 09:45-10:30 | Independent inspection
- 10:30-11:00 | Dispute resolution
- 11:00-11:30 | Coffee break
- 11:30-11:45 | Dispute resolution (continued)
- 11:45-12:30 | Quality management systems
- 12:30-13:15 | Continuous improvement
- 13:15-14:00 | Capstone: Product quality control plan

Seminar dates

Available seminar dates

Live dates and pricing for Petroleum Product Quality, Testing and Specifications generated from the course details page.

Date	Location	Format	Fee
9 - 13 November 2026	Kuala lumpur	Classroom	€1,925
14 - 18 December 2026	Barcelona	Classroom	€2,815
18 - 22 January 2027	Paris	Classroom	€3,825
15 - 19 February 2027	Frankfurt	Classroom	€1,875
15 - 19 March 2027	Barcelona	Classroom	€2,815
19 - 23 April 2027	Frankfurt	Classroom	€1,875
17 - 21 May 2027	Rome	Classroom	€3,460
21 - 25 June 2027	Kuala lumpur	Classroom	€1,925
19 - 23 July 2027	Barcelona	Classroom	€2,815
16 - 20 August 2027	Paris	Classroom	€3,825

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