

OIL AND GAS | OG-035

LNG Value Chain: Liquefaction, Shipping and Regasification

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Course content

Why Attend

Liquefied natural gas connects gas resources with markets around the world and has become central to energy security in Europe and Asia. The LNG value chain involves complex technology, large investments and sophisticated commercial arrangements.

This Aractech course covers the full LNG chain: gas pre-treatment, liquefaction technologies, storage, loading, shipping, regasification and the commercial structures that link them, including LNG sale and purchase agreements, pricing and trading. Participants also examine safety, emissions and the future role of LNG in the energy transition.

Course Methodology

- Integrated technical and commercial presentations
- Case studies of LNG projects
- Contract and pricing exercises
- Group discussions on market trends
- Daily recap quizzes

Course Objectives

- Explain the structure of the LNG value chain
- Describe liquefaction processes and technologies
- Understand LNG storage, loading and shipping
- Explain regasification terminals and floating solutions
- Understand LNG contracts, pricing and trading
- Assess safety, emissions and market trends

Course content

Target Audience

- Engineers and operators in LNG facilities
- Commercial and trading professionals
- Shipping and logistics professionals
- Government and regulatory staff

Course outline

Detailed course outline

Day-by-day outline for LNG Value Chain: Liquefaction, Shipping and Regasification.

Day 1 - LNG Fundamentals and Markets

- 09:00-09:39 | Why LNG: properties and benefits
- 09:39-10:18 | Global LNG supply and demand
- 10:18-10:57 | Major exporters and importers
- 10:57-11:00 | LNG project structures
- 11:00-11:30 | Coffee break
- 11:30-12:05 | LNG project structures (continued)
- 12:05-12:43 | Market trends and energy security
- 12:43-14:00 | Exercise: Mapping global LNG flows

Day 2 - Liquefaction

- 09:00-09:39 | Gas pre-treatment for LNG
- 09:39-10:18 | Liquefaction processes
- 10:18-10:57 | Refrigerant cycles
- 10:57-11:00 | Plant configurations and floating LNG
- 11:00-11:30 | Coffee break
- 11:30-12:05 | Plant configurations and floating LNG (continued)
- 12:05-12:43 | Operating challenges
- 12:43-14:00 | Case study: An LNG train start-up

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Day 3 - Storage, Loading and Shipping

- 09:00-09:39 | LNG storage tanks
- 09:39-10:18 | Loading operations
- 10:18-10:57 | LNG carriers and containment systems
- 10:57-11:00 | Boil-off gas management
- 11:00-11:30 | Coffee break
- 11:30-12:05 | Boil-off gas management (continued)
- 12:05-12:43 | Ship-shore interface and safety
- 12:43-14:00 | Exercise: Shipping logistics

Day 4 - Regasification and Distribution

- 09:00-09:39 | Onshore regasification terminals
- 09:39-10:18 | Floating storage and regasification units
- 10:18-10:57 | Send-out and grid connection
- 10:57-11:00 | Small-scale LNG and bunkering
- 11:00-11:30 | Coffee break
- 11:30-12:05 | Small-scale LNG and bunkering (continued)
- 12:05-12:43 | Terminal operations
- 12:43-14:00 | Case study: A new FSRU project

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Day 5 - Commercial and Future Outlook

- 09:00-09:45 | LNG sale and purchase agreements
- 09:45-10:30 | Pricing mechanisms and indexation
- 10:30-11:00 | Spot trading and portfolio players
- 11:00-11:30 | Coffee break
- 11:30-11:45 | Spot trading and portfolio players (continued)
- 11:45-12:30 | Emissions and decarbonisation
- 12:30-13:15 | LNG in the energy transition
- 13:15-14:00 | Capstone: LNG project commercial review

Seminar dates

Available seminar dates

Live dates and pricing for LNG Value Chain: Liquefaction, Shipping and Regasification generated from the course details page.

Date	Location	Format	Fee
2 - 6 November 2026	Rome	Classroom	€3,460
21 - 25 December 2026	Munich	Classroom	€3,225
18 - 22 January 2027	Frankfurt	Classroom	€1,875
15 - 19 February 2027	Rome	Classroom	€3,460
15 - 19 March 2027	Kuala lumpur	Classroom	€1,925
19 - 23 April 2027	Barcelona	Classroom	€2,815
17 - 21 May 2027	Geneva	Classroom	€4,315
21 - 25 June 2027	Geneva	Classroom	€4,315
19 - 23 July 2027	Rome	Classroom	€3,460
16 - 20 August 2027	Geneva	Classroom	€4,315

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20 - 24 September 2027	Frankfurt	Classroom	€1,875
18 - 22 October 2027	Rome	Classroom	€3,460
15 - 19 November 2027	Kuala lumpur	Classroom	€1,925
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

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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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