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COURSE BROCHURE

Liquefied Natural Gas Project Execution Training Course

11 – 15 July 2027
Muscat

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Registered in the United Kingdom and Saudi Arabia

Liquefied Natural Gas Project Execution Training Course

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Liquefied Natural Gas Project Execution is a 1-week training course for project managers, engineers and owner team leads on gas liquefaction and terminal projects, who leave with a project control plan covering feasibility to start-up. Many recent liquefaction and import projects have finished late and over budget, so partners now scrutinise execution capability before committing capital. This course from Jupiter Prime Training focuses on the owner decisions that keep a train or terminal on track.

Why Liquefied Natural Gas Project Execution Matters Now

Several forces press on gas plant and terminal projects today. A wave of new liquefaction capacity competes for the same contractors, cryogenic equipment slots and skilled craft labour. Joint venture partners and lenders demand tighter reporting and earlier warning of slippage. Contractors are less willing to accept full lump-sum risk, which pushes owners towards mixed contract forms they must actively manage. An owner who controls execution well reaches first cargo on time and protects sales commitments; one who does not faces penalty payments, idle ships and strained partner relations. The course rests on stage gate practice, earned value measurement and system-based completions.

Who Gains Most from Liquefied Natural Gas Project Execution

- Owner representatives who steer contractors from front-end design to handover
- Engineers who own technical packages such as trains, tanks or marine works
- Project control specialists who build schedules, estimates and progress reports
- Commissioning leads who prepare systems for cool-down and first cargo
- Contract staff who manage variations, claims and contractor performance

An owner team from one liquefaction or terminal project gains most when its engineering, controls and commissioning leads attend together and agree one execution baseline.

Liquefied Natural Gas Project Execution Capabilities

Participants link contracting choices, schedules and completions into one line of sight from investment decision to first cargo.

- Design an execution strategy and owner team structure — partner alignment
- Weigh lump-sum, reimbursable and convertible contract forms — cost risk allocation
- Build an integrated schedule with earned value tracking — steering committee reporting
- Apply change and contingency controls — funding requests to partners
- Specify interface and completions registers — clean handover by system
- Test start-up readiness against cool-down sequences — first cargo commitment

Key Liquefied Natural Gas Project Execution Terms

- Final investment decision — the point where partners commit capital and the project moves into detailed engineering and construction.
- Front-end engineering design — the design stage that fixes scope, layout and cost estimate before the main contract is awarded.
- Convertible contract — a contract that starts reimbursable and converts to lump-sum once design and pricing are mature enough.
- Mechanical completion — the stage where a system is built and tested, ready for pre-commissioning.
- Systemisation — dividing the plant into systems that are completed, tested and handed over one by one.
- Cool-down — slowly chilling cryogenic equipment and piping to operating temperature before the first liquid is produced.

Liquefied Natural Gas Project Execution Day by Day

Day 1: Megaproject Context and Phase Gates

- Liquefaction Train and Terminal Scope Breakdown — Execution Boundaries and Battery Limits
- Stage Gate Deliverables From Appraise to Execute — Readiness for Investment Decision
- Owner Team Organisation Charts — Roles Kept In-House Versus Contracted
- Lessons From Overrun Liquefaction Projects — Early Warning Signs to Watch
- Project Execution Strategy Document — Alignment of Partners and Lenders

Day 2: Front-End Engineering and Contracting Strategy

- Front-End Engineering Design Competition — Choosing Between Rival Contractors
- Lump-Sum, Reimbursable and Convertible Contract Forms — Cost Risk Allocation
- Modular Construction and Yard Fabrication — Site Labour and Logistics Load
- Long-Lead Cryogenic Equipment Packages — Main Heat Exchanger and Compressor Slots
- Bid Evaluation and Contractor Clarification Logs — Award Recommendation

Day 3: Schedule, Cost and Change Control

- Integrated Master Schedule and Critical Path — Mechanical Completion Date
- Earned Value Measurement for Engineering and Construction — Progress Truth
- Contingency Drawdown and Risk-Based Estimates — Funding Requests to Partners
- Change Order and Variation Registers — Scope Creep and Claims Exposure
- Monthly Progress Dashboards — Steering Committee Intervention Points

Day 4: Interfaces, Quality and Commissioning

- Interface Registers Between Train, Tank, Jetty and Utilities — Ownership of Gaps
- Cryogenic Welding and Insulation Inspection Plans — Rework Avoidance
- Systemisation and Completions Databases — Handover by System
- Pre-Commissioning, Cool-Down and First Cargo Sequences — Start-Up Readiness
- Operations Readiness and Spares Planning — Smooth Transfer to the Operator

Day 5: Practising the Project Control Plan

- Execution Strategy Review — Applying Phase Gate and Contracting Choices
- Schedule and Cost Baseline Set-Up — Applying Earned Value Methods
- Interface and Completions Matrix — Applying Commissioning Sequences
- Top Ten Execution Risk Responses — Owner Team Actions
- Project Control Plan for a Gas Plant or Terminal — Steering Committee Approval

Applying Liquefied Natural Gas Project Execution After the Course

- Run an earned value review of current engineering and construction progress and present corrective actions to the steering committee.
- Lead an interface register session across train, tank, jetty and utility packages to close ownership gaps before construction peaks.

Liquefied Natural Gas Project Execution Questions FAQ

What is Liquefied Natural Gas Project Execution and why does it matter now?

It is the owner side discipline of taking a liquefaction train or terminal from investment decision to first cargo. It matters now because contractors, equipment and labour are stretched, and delays carry heavy commercial penalties.

Which roles gain most from Liquefied Natural Gas Project Execution?

Owner representatives, package engineers, project control specialists, commissioning leads and contract staff gain most.

How does Liquefied Natural Gas Project Execution differ from a general capital project course?

It applies execution methods to cryogenic plants and marine terminals specifically. A general course covers project principles for any asset, while this one deals with cool-down, cryogenic packages and first cargo sequences.

What do you bring back from Liquefied Natural Gas Project Execution?

You bring back a project control plan with an execution strategy, schedule and cost baseline, interface and completions matrix and a ranked list of execution risk responses.

Liquefied Natural Gas Project Execution: The Way Forward

The project control plan first informs how the owner team sets its schedule and cost baseline at contract award. Project directors, partners and lenders use it to track progress and approve contingency use. After mechanical completion of the first systems, the interface and commissioning assumptions deserve a fresh look, since real construction sequences often change the path to first cargo.