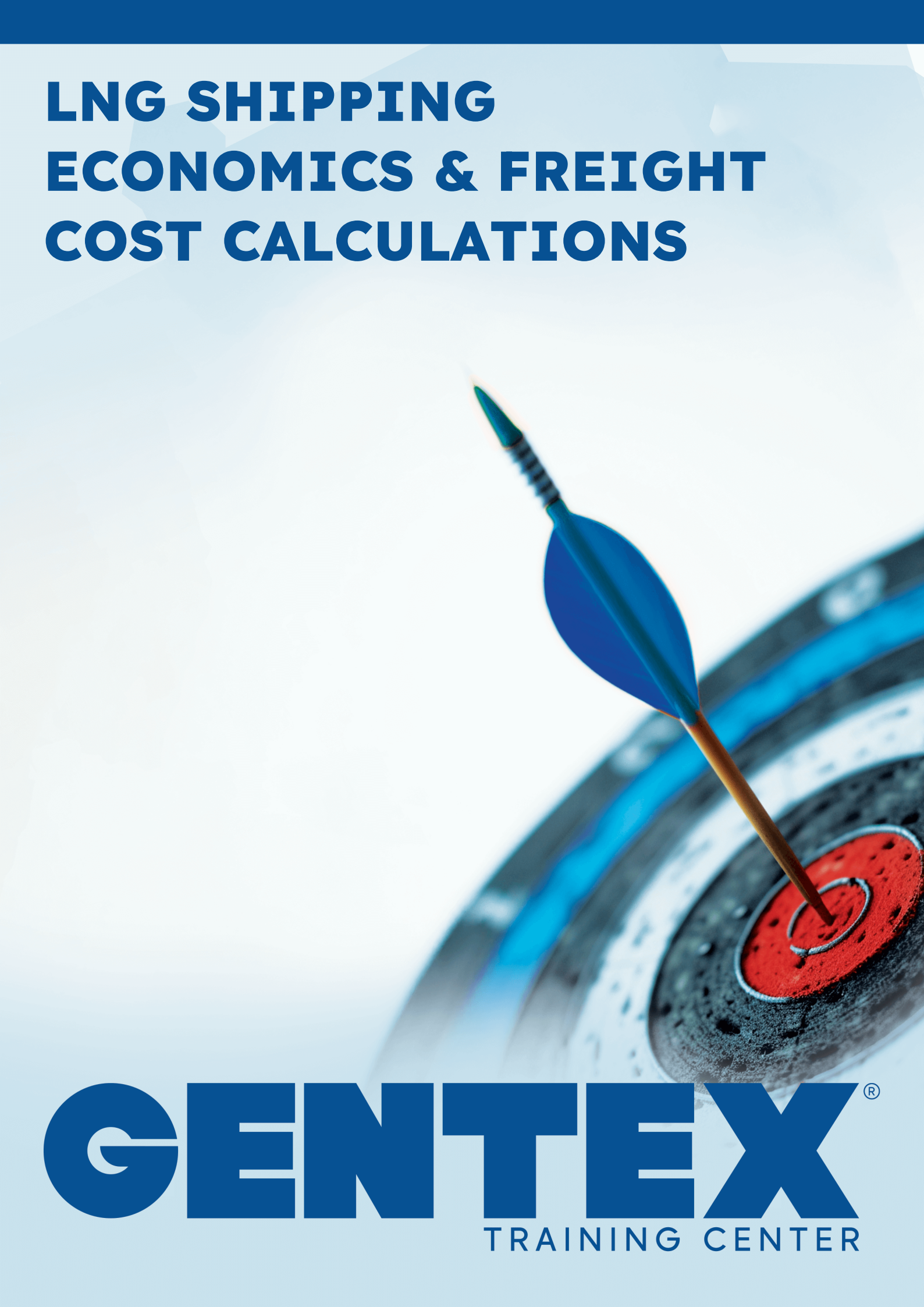
LNG SHIPPING ECONOMICS & FREIGHT COST CALCULATIONS



GENTEX®
TRAINING CENTER

GENTEX Training Center LLC | Orlando - FL, USA
Info@gentextraining.com

Introduction

LNG Shipping Economics & Freight Cost Calculations Training Course builds the commercial and analytical skills that shipping, trading and finance professionals need in the liquefied natural gas trade. Participants learn how the LNG supply chain works, how charter rates are set and how voyage costs are built and defended. The programme covers charterparty structures, time charter and voyage charter economics, boil-off, heel management, canal transit and port costs, and the components of freight rate calculation. Furthermore, it addresses laytime, demurrage, speed and consumption performance and freight exposure. As a result, delegates can price a voyage, challenge a charter rate and control shipping cost. Gentex Training Center delivers the programme through voyage cost modelling workshops and chartering case work.

LNG Shipping Economics & Freight Cost Calculations Course Objectives

- Explain the LNG supply chain from liquefaction to regasification.
- Describe vessel types, capacities and containment systems.
- Interpret charterparty terms for time charter, voyage charter and bareboat.
- Calculate voyage costs including bunkers, port dues and canal transit fees.
- Build freight rate calculations on a per cargo and per MMBtu basis.
- Apply speed and consumption performance and its cost consequences.
- Assess boil-off, heel and cooldown requirements in voyage economics.
- Apply laytime, demurrage and despatch calculations correctly.
- Evaluate freight exposure, hedging and chartering strategy options.
- Prepare voyage estimates and freight cost reports for management.

GENTEX® TRAINING CENTER

GENTEX Training Center LLC | Orlando - FL, USA
Info@gentextraining.com

Course Methodology

The course combines commercial briefings with hands-on voyage cost modelling workshops and chartering case studies. Participants build a voyage estimate in Excel, calculate freight rates on different bases and analyse a demurrage claim. In addition, structured peer review and group discussion reinforce each technique, and every day closes with an applied shipping economics task.

Who Should Take This Course

- LNG shipping, chartering and operations professionals.
- Commodity traders and supply chain managers in gas and LNG.
- Shipowners, operators and ship management commercial staff.
- Finance, treasury and risk professionals in shipping and energy.
- Bunker procurement and marine fuel analysts.
- Consultants, analysts and advisers covering LNG shipping.

LNG Shipping Economics & Freight Cost Calculations Course Outlines

Day 1: LNG Supply Chain and Shipping Basics

- The LNG chain: liquefaction, shipping, regasification and delivery.
- Vessel types, capacities, containment systems and propulsion.
- Fleet structure, newbuildings and charter market overview.
- Shipping terminology: laden, ballast, laycan and voyage stages.
- Roles of charterers, owners, brokers and port agents.

- Freight market drivers: tonnage supply, project demand and seasonality.
- Workshop: mapping an LNG voyage from load port to discharge port.

Day 2: Charterparties and Charter Rate Structures

- Time charter, voyage charter, bareboat and contract of affreightment.
- Charterparty clauses on delivery, redelivery and off-hire.
- Hire rates, escalation and indexation mechanisms.
- Speed and consumption warranties and performance claims.
- Laytime, demurrage and despatch provisions.
- Market benchmarks and freight rate assessment reporting.
- Workshop: reviewing a charterparty and identifying cost exposures.

Day 3: Voyage Cost Components and Bunker Economics

- Bunker grades, pricing and procurement strategies.
- Port dues, pilotage, towage and agency costs.
- Canal transit charges and routing alternatives.
- Boil-off, heel, cooldown and liquefaction cost considerations.
- Insurance, maintenance and crewing cost allocation.
- FuelEU Maritime and emissions cost considerations in routing.
- Workshop: building a full voyage cost estimate in Excel.

Day 4: Freight Rate Calculation and Performance Analysis

- Freight rate calculation on a per cargo and per MMBtu basis.
- Time charter equivalent and its comparison with voyage rates.
- Speed and consumption analysis and its cost impact.
- Laytime calculation, demurrage and despatch claims.
- Break-even freight rates and sensitivity to fuel and hire costs.
- Voyage profitability analysis and variance against estimate.
- Workshop: calculating freight rates and analysing a demurrage claim.

Day 5: Freight Exposure, Chartering Strategy and Reporting

- Freight exposure identification and quantification.
- Hedging and risk transfer options including freight derivatives.
- Chartering strategy: short-term, long-term and floating options.
- Freight cost budgeting and forecasting in supply planning.
- Preparing voyage estimates and freight cost reports.
- Presenting chartering recommendations and defending assumptions.
- Workshop: defending a voyage estimate and chartering recommendation before a review panel.

Conclusion

GENTEX Training Center LLC | Orlando - FL, USA
Info@gentextraining.com

By successfully completing LNG Shipping Economics & Freight Cost Calculations Training Course, participants will have acquired the knowledge to price LNG voyages, calculate freight rates and control shipping cost. They will understand the supply chain, charterparties, voyage cost components, freight calculations, performance analysis and freight exposure, and they will know how to prepare estimates that stand up to commercial review. As a result, delegates support better chartering and cost decisions. Gentex Training Center builds the programme around current LNG shipping practice.

FAQs for the LNG Shipping Economics & Freight Cost Calculations course

Q1 What is the "LNG Shipping Economics & Freight Cost Calculations" course about?

It covers the commercial economics of moving LNG by sea. You learn the supply chain, charterparty structures, voyage cost components, bunker and canal economics, freight rate calculation, demurrage claims and freight exposure, with practical voyage modelling.

Q2 What are the key benefits of the "LNG Shipping Economics & Freight Cost Calculations" course?

You gain the ability to build and challenge voyage estimates and charter rates rather than accepting quoted figures. You also reduce freight cost through better routing and performance analysis, manage demurrage exposure, improve chartering decisions, and forecast shipping cost more reliably.

GENTEX Training Center LLC | Orlando - FL, USA
Info@gentextraining.com

Q3 What skills will I gain from the "LNG Shipping Economics & Freight Cost Calculations" course?

You will gain LNG supply chain and shipping economics analysis, voyage cost and freight rate calculation, charterparty and performance analysis, and freight exposure assessment and chartering strategy development.

Q4 What tools, methods, or standards are covered in the "LNG Shipping Economics & Freight Cost Calculations" course?

The course covers time charter, voyage charter and bareboat structures, speed and consumption warranties, laytime, demurrage and despatch calculations, bunker grades and pricing, port dues and canal transit charges, boil-off and heel considerations, time charter equivalent calculation, freight rate calculation on per cargo and per MMBtu bases, FuelEU Maritime emission cost considerations, and freight derivatives as a hedging option.

Q5 How is the "LNG Shipping Economics & Freight Cost Calculations" course applied in real-world practice?

Graduates apply it to prepare voyage estimates for chartering decisions, calculate freight rates on different bases, analyse speed and consumption performance claims, compute laytime and demurrage positions, forecast freight cost for supply plans, evaluate chartering alternatives, and present shipping cost reports to management.