Liquefied Gas Tanker (Membrane)
Cargo Operations Simulator (STRCTR-256)

Star offers, in addition to Membrane model simulation, a Spherical ship simulation and a Q-FLEX ship simulation model

Length 40 hours (1 week)

Objective

The Objective of this course is to provide the student with "hands on" practical experience in LNG cargo operations using exercises and practical assessments on the Cargo Operations Simulator. This course when taken as a sequel to a specialized training course for Liquefied Gas tankers is designed to meet the requirements of the International Convention on Standards of Training and Watchkeeping for Seafarers as amended, including paragraphs 22-34 of Section A-V/1 and Regulation I/12 and Code Section A-I/12. The course is also designed to meet the requirements of; IAW 46 CFR 13.203 and IAW 46 CFR 13.203 (b).

This Course is USCG Approved and STCW Compliant. The course certificate will state:

"This course is hereby recognized as a Coast Guard Approved Training Course as outlined in Subpart C of Part 11, Title 46, Code of Federal Regulations. Any applicant who has successfully completed your Liquefied Gas Tanker (Membrane) Cargo Operations Simulator (STRCTR-256) course will:
a) Satisfy the competency requirements of Section A-V/I-2, Table A-V/1.2.1 for Basic Training for Liquefied Gas Tanker and Table A-V/1.2.2 for Advanced Training for Liquefied Gas Tankers of the STCW Code and of46 CFR Part 13.209, 13.309, 13.409 or 13.509 for any tankerman endorsement valid for Liquefied Gases PROVIDED applicant has also successfully completed an approved Liquefied Gas Tanker Cargo Course compliant with 46 CFR 13.121(e)(2); AND
b) Satisfy the training requirements of 46 CFR 13.120 for renewal of a Tankerman-PIC-LG endorsement and applicant must still satisfy the requirements of 46 CFR 10.227; AND
c) Receive credit for one commencement of loading and one completion of loading which may be applied toward satisfying the requirements in 46 CFR 13.203; AND
d) Receive credit for one commencement of discharge and one completion of discharge which may be applied toward satisfying the requirements in 46 CFR 13.203; AND
e) Receive credit for one loading and one discharge which may be applied toward satisfying the requirements of 46 CFR 13.203."

Scope

- This is a simulator based course consisting of a series of exercises founded on the cargo and ballast equipment located on an LNG carrier using the GTTT Membrane System. All the exercises are conducted using STAR Center's MPRI LNG cargo handling simulator.
- The exercises are initiated by allowing trainees to become familiar with the operation of the simulator and the layout of the cargo and ballast systems together with the instrumentation and controls. This process is undertaken while conducting some of the initial operations in preparing the vessel to load cargo from a gas free condition.
- The exercises continue with the simulation of normal procedures and operations associated with the cooling down of cargo tanks, loading and discharging, use of boil off gas as fuel, and gas freeing.
- Each exercise conducted using the simulator is be preceded by a detailed briefing session to ensure the students are aware of the scenario at the commencement of the exercise, and followed by a debriefing session during which the actions and the decisions of the students should be analyzed.
- Throughout all the exercises, if the simulator is used in individual mode, the student will assume the role of chief officer. If the simulator is used as a 'group' facility the students should assume roles defined by the instructor.

Entry Standards

Students must have completed STAR Center's 60-hour Tankship LG (D056) within 5 years in order to enroll in the LNG simulator training course.

Teaching

Center, Dania Beach, Florida