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**МЕЖДУНАРОДНЫЙ ЦЕНТР
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Loading master of LNG terminal

Duration: 40 h

Form: off-the-job

№	Topic
1	Sea oil-and-gas facilities. Types and classification.
2	Industrial safety. Federal norms and regulations for LNG terminals.
3	Technical regulations on the safety of maritime transport infrastructure facilities. Requirements for the design, construction and commissioning of LNG terminals.
4	Main hazardous properties of LNG according to international classification.
5	LNG terminal equipment. Stationary vessels for storing LNG. Applicable international standards.
6	LNG terminal equipment. Requirements for flexible hoses and pipelines for transportation and transmission of LNG. Applicable international standards.
7	LNG terminal equipment. Pumps, compressors and mechanisms for pumping LNG. Applicable international standards.
8	Application of materials and welding for cryogenic equipment. Features of non-destructive testing methods.
9	Portable tanks and tank containers for storage and transportation of cryogenic liquids. Applicable international standards
10	Flowcharts for loading and unloading operations at LNG terminals.
11	Features of bunkering ships with liquefied natural gas. Applicable international standards. SIGTTO standards.
12	Types of LNG tankers. Requirements of international conventions and agreements.
13	Ship-shore interaction during cargo and mooring operations at LNG terminals. Quality and quantity of LNG. Applicable international regulations and guidelines.
14	Licensed activities at LNG terminals. Action plans for the prevention, localization and elimination of accidents consequences at LNG terminals
15	Explosion-proof equipment. Gas detection equipment. Gas detection and alarm systems at the LNG terminal in hazardous areas.
16	Risk assessment and management during the operation of LNG terminals.
17	Occupational Safety and Health. Safety precautions. First aid to victims of the damaging effects of hazardous substances, including cryogenic liquids.
18	Features of fire extinguishing at LNG terminals. Fire extinguishing systems at LNG terminals. Personal protective equipment.
Final certification	