

Liquefied Natural Gas



Liquefied Natural Gas (LNG) Library, from OverNite Software, Inc., provides comprehensive knowledge for all LNG industry workers, whether they are new hires or experienced employees.

The LNG Library includes 11 courses based on current regulations, standards, and codes as outlined by the U.S. Department of Transportation (DOT), Department of Homeland Security (DHS), and the National Fire Protection Association (NFPA).

Course topics explore the unique characteristics and hazards associated with the LNG industry and address procedures and knowledge necessary for safe plant operations, maintenance, instrumentation, and logistics. Additionally, each course has been reviewed by experts in the LNG industry to ensure course accuracy and relevance.

Our courses are delivered via a state-of-the-art learning management system that allows you to customize curricula, adjust testing parameters, and even customize courses with site-specific content and photos.



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LIQUEFIED NATURAL GAS

141 Characteristics and Hazards of LNG provides an introduction to LNG, describes its characteristics and hazards, and discusses its storage requirements. (25 min)

142 Potential Hazards – LNG Release examines the potential hazards that could occur as the result of small and large releases of LNG. (35 min)

143 LNG Operating Concepts Overview gives a brief description of LNG facilities and their functions and operations. This course also defines common terms and examines applicable regulations and standards. (30 min)

144 LNG Plant Operations – Gas Treating examines the hazards of working around hydrogen sulfide. This course also reviews the operation of filter-separators, amine units, and mole sieve dehydrators, including common troubleshooting problems. (30 min)

145 LNG Plant Operations – Liquefaction reviews popular LNG technologies. Also discussed are shutdown and startup of the liquefaction process, including cool-down, purging, and common operating problems such as freezing and leaks. (30 min)

146 LNG Plant Operations – Storage and Regasification describes the degrees of containment of LNG storage vessels, how they are constructed, and how boil-off gas is handled. This course also examines the cool-down and regasification processes, types of vaporizers, and operational issues associated with vaporizers. (40 min)

147 LNG Plant Operations – Pumps and Compressors describes pumps, including in-tank pumps, and explains how and where they are used in an LNG plant. This course also examines how and where compressors are used, including those used in boil-off gas and refrigeration applications. The main types of compressor drivers and their features are discussed, as well. (30 min)

148 LNG Plant Operations – Instrumentation and Controls discusses the various process instruments used to measure pressure, flow, level, and temperature. The second phase of the course explains the use of control instruments, control systems, and DOT requirements for control systems. (50 min)

149 LNG Transfer Concepts examines protocols, equipment, safety, security, and procedures for LNG transfer operations from ships to import terminal facilities. The course also takes a brief look at transfer operations involving LNG truck trailers. (65 min)

150 LNG Maintenance Concepts: Part 1 discusses the codes, standards, and references that apply to the design, construction, and operation of LNG facilities. Materials that are suitable for LNG service, testing methods, design, inspections, and documentation requirements are also explained. (35 min)

151 LNG Maintenance Concepts: Part 2 discusses the welding process, welding techniques, test methods, and certification of welders. The second phase of the course explains the types of corrosion, typical locations of corrosion, and methods of controlling corrosion. The last phase of the course discusses the DOT requirements of the maintenance process, including training and documentation. (40 min)