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"Where questions become knowledge"

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"Where Questions Become Knowledge"

Pipeline Operator Qualification - LNG				
Library	Course Code	Course Name	Description and Length (in minutes)	3-18-24
Liquefied Natural Gas				
Liquefied Natural Gas (LNG)	141HAZ	Characteristics and Hazards of LNG	Characteristics and Hazards of LNG provides an introduction to LNG, describes its characteristics and hazards, and discusses its storage requirements.	25 minutes
Liquefied Natural Gas (LNG)	142REL	Potential Hazards - LNG Release	Potential Hazards - LNG Release examines the potential hazards that could occur as the result of small and large releases of LNG.	35 minutes
Liquefied Natural Gas (LNG)	143OPER	LNG Operating Concepts Overview	LNG Operating Concepts Overview briefly describes LNG facilities and their functions and operations. This course also defines common terms and examines applicable regulations and standards.	30 minutes
Liquefied Natural Gas (LNG)	144TREAT	LNG Plant Operations - Gas Treating	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 minutes
Liquefied Natural Gas (LNG)	145LIQ	LNG Plant Operations - Liquefaction	LNG Plant Operations - Liquefaction reviews popular LNG technologies. Also discussed are shutdown and start-up of the liquefaction process, including cool-down, purging, and common operating problems (such as freezing and leaks).	30 minutes
Liquefied Natural Gas (LNG)	146REGAS	LNG Plant Operations - Storage and Regasification	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 minutes

Liquefied Natural Gas (LNG)	147PUMP	LNG Plant Operations – Pumps and Compressors	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 also discussed.	30 minutes
Liquefied Natural Gas (LNG)	148INST	LNG Plant Operations - Instrumentation and Controls	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 minutes
Liquefied Natural Gas (LNG)	149TRANS	LNG Plant Operations – Transfer Concepts	LNG Plant Operations - 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 minutes
Liquefied Natural Gas (LNG)	150MAIN1	LNG Maintenance Concepts: Part 1	LNG Maintenance Concepts: Part 1 discusses the codes, standards, and references that apply to the design, construction, and operation of LNG facilities. Materials suitable for LNG service, testing methods, design, inspections, and documentation requirements are also explained.	35 minutes
Liquefied Natural Gas (LNG)	151MAIN2	LNG Maintenance Concepts: Part 2	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 course's last phase discusses the maintenance process's DOT requirements, including training and documentation.	40 minutes