

# CRYOGENIC HANDLING & SAFETY IN LNG OPERATIONS

Start Date:	22/12/2025	End Date:	26/12/2025
Categories:	Oil & Gas	Venues:	Dubai
Formats:	In Person	Instructors:	

## OVERVIEW

This course covers the principles of cryogenic science, materials compatibility, and safety procedures essential for LNG operations. It emphasizes hazard control, emergency response, and best practices in cryogenic environments.

## OBJECTIVES

- Understand the nature of cryogenic liquids and materials behavior.
- Apply safe handling procedures for LNG and cryogenic systems.
- Identify potential hazards and implement risk mitigation.
- Develop emergency preparedness and response protocols.
- Comply with international safety standards and best practices.

## COURSE OUTLINE

- Introduction to Cryogenics and LNG Properties
- Equipment Design for Cryogenic Service
- Materials Selection and Failure Modes
- Personal Protective Equipment and Operational Protocols
- Risk Assessment and Emergency Planning
- Case Studies of LNG Incidents

## TARGET AUDIENCE

LNG facility operators, safety officers, maintenance engineers, and project personnel.

## METHODOLOGY

Real-world scenarios, failure analysis, safety drills, and group exercises.

## CONCLUSION

Participants will be equipped to safely manage LNG operations in cryogenic environments.

## DAILY AGENDA

### **Day 1: Cryogenics Fundamentals**

Properties, physics, and behavior of cryogenic fluids.

### **Day 2: Equipment & Materials**

Design and material compatibility under cryogenic stress.

### **Day 3: Operational Safety**

Handling procedures and safety equipment use.

### **Day 4: Hazards & Risk Management**

Failure modes, hazard analysis, and risk reduction.

### **Day 5: Emergency Response**

Planning, drills, and incident response case studies.

*For more information, please contact us:*

*Email: [info@gatewayconsulting.com](mailto:info@gatewayconsulting.com) | Phone: +96522968641*

*<https://gatewayconsulting.com>*