



Badak LNG
Center of Excellence

Badak LNG Learning Center Training Catalog 2025







Having more than 50 years of experience in LNG/LPG Plant Operation & Maintenance, we established Badak LNG Learning Center as a realization of our commitment to enhance personnel skills and facilitate knowledge transfer relating to LNG Plant Operation & Maintenance. Our training programs are handled by LNG Professionals in their respective fields. We are glad to offer you our expertise as a contribution to ensuring the sustainability of LNG Business for the years to come.

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LNG Plant Operator Training

This training is designed specifically to deliver an in-depth understanding in the LNG plant operations that includes practical experience to develop participants to become a capable, skilled and professional LNG Field Operator. Most of the training programs are personalized to fulfill client's needs.



Objective

Training graduates will be ready to work as LNG field operators in an LNG Plant and capable of handling various operational situations and maintenance work.

Target Participant

ISBL & OSBL Operator/DCS

Instructor

Operation Specialist Team with more than 10 years of experience in operating plant equipment and remarkable skills in developing Standard Operating Procedure (SOP) and Working Instruction, field activities coordination, which includes repair, performance test, troubleshooting, manpower and spare parts.

Duration

18 months, that includes:

- In-class Courses/ Basic Orientation Training (BOT): 3 months
- On-the-Job Training (OJT): 3 months
- Job-Specific Training (JST) in Plant Operation Area: 12 months

LNG Maintenance Training

This training is prepared specifically to deliver comprehensive knowledge which is necessary to equip training participants to become capable, skilled and professional maintenance technicians in the LNG Plant. Most of the training programs are personalized to fulfill client's needs.

Objective

Training graduates will be ready to work as Maintenance Technician in an LNG Plant and capable to handle various maintenance work.

Target Participant

Maintenance Technician

Instructor

Maintenance Specialist Team with more than 10 years of experience in plant equipment maintenance and remarkable skills in the development of Standard Operating Procedure (SOP) and Working Instruction, field activities coordination, which includes repair, performance test, troubleshooting, manpower and spare parts.

Duration

18 months, that includes:

- In-class Courses/ Basic Orientation Training (BOT): 3 months
- On-the-Job Training (OJT): 3 months
- Hands-On Maintenance Training: 12 months



LNG Train Shutdown & Start-Up Training

This training focuses on important aspects of LNG Shutdown & Start-Up Plant, utilizing LNG Plant facilities.



Objective

Training participants will develop skills in LNG Plant Shutdown & Start-Up in various cases and sequences which are included in the program outline in safe and efficient manner.

Target Participants

- ISBL Operator
- DCS Board Panel
- Supervisor
- Superintendent
- Technical Engineer

Instructor

Operation Specialist Team with more than 10 years of experience operating and maintaining plant equipment and remarkable skills in the development of Standard Operating Procedure (SOP) and Working Instruction, field activities coordination, which includes repair, performance test, troubleshooting, manpower and spare parts.

Duration

Full day – Classroom Session and Site Visit

LNG Filling Station Operation Training

This training focuses on the introductions related to regulations and safety aspects at the LNG Plant, LNG Filling Station and related Plant operations, the roles of operators and methods for extinguishing fire caused by Hydrocarbon and LNG.

Objective

Participants will be capable of fulfilling the competency as an LNG Filling Station and ready to be placed in the LNG Filling Station facility after classroom sessions, practice and familiarization with LNG Filling operational activities.

Target Participants

LNG Filling Station Operators

Instructor

Operation Specialist Team with more than 10 years of experience in plant equipment and remarkable skills in the development of Standard Operating Procedure (SOP) and Working Instruction, field activities coordination, which includes repair, performance test, troubleshooting, manpower and spare parts.

Duration

Full day – Classroom Session and Site Visit



LNG Plant Operation & Maintenance Training

This training program delves into important aspects of LNG Plant Operation and Maintenance, utilizing LNG Plant facilities.



Objective

Participants will develop a better understanding about LNG Plant through a comprehensive program outline that is essential in developing the company's business in LNG Operation and Maintenance. Participants will also get complete knowledge from associated personnel in the LNG Plant.

Target Participant

Management and non-technical personnel

Instructor

Operation & Maintenance Specialists with more than 10 years of experience in LNG Plant operation and maintenance.

Duration

Full day – Classroom Session and Site Visit

LNG Plant Turnaround Training

This training aims to assist clients from consultation to execution. Our approach is to provide complete and full service of technical assistance and applicable solutions based on client's plant operation.

Objective

This training focuses on stationary and rotating equipment, fluid power components, as well as protective and efficient coating. Our personnels will closely assist training participants to define jobs, identify key objectives, and to clarify objectives and results.

Target Participant

- Inspector
- Rotating and Static Equipment Mechanics
- Mechanical Supervisors
- Planner
- Scheduler
- Maintenance Managers

Instructor

Maintenance and Technical Team Badak LNG

Duration

Full day – Classroom Session and Site Visit



Oil & Gas Maintenance Training

This aims to enhance participant's understanding and the know-how to maintain a variety of equipment and to apply best work practice standards in Oil & Gas plants.



Objective

This training prepares and develops qualified personnels for the maintenance activities in the Oil & Gas plant which can result in cost reductions for operation and maintenance and subsequently lead to increase/maximize productions.

Target Participant

- Planner
- Mechanics
- Maintenance Supervisors
- Inspectors
- Engineers
- Maintenance Managers

Instructor

Maintenance and Technical Team Badak LNG

Duration

Full day – Classroom Session and Site Visit

Basic Knowledge of LNG

This training covers basic knowledge of Liquefied Natural Gas (LNG) and includes gas conditioning & processing, LNG plant infrastructure and Health, Safety & Environment (HSE) aspects.

Objective

Participants will gain a comprehensive understanding of the LNG business, process, and operations facilitated by key actors in the LNG plant. This ensures participants will then be able to improve company's performance and decision making abilities through applying extensive guidelines and principles learnt from the program.

Instructor

Senior Technical Expert, experienced in LNG Plant Engineering and Operations, including the field of engineering design, safety, business and economics

Target Participant

Any Participants.

Duration

Full day – Classroom Session and Site Visit



Basic Corrosion & Cathodic Protection

This training delves into fundamental aspects of corrosion control and prevention.



Objective

Participants will be able to:

- establish a solid foundation of knowledge in corrosion and cathodic protection
- develop understanding on basic concepts and fundamentals about corrosion and cathodic protection
- update the knowledge of corrosion and the awareness of the emerging technologies for corrosion control and prevention

Target Participant

- Corrosion Practitioners
- Engineers
- Technical Managers
- Inspection & Maintenance Engineers
- Quality Control Personnel

Instructor

Senior Technical Expert in Corrosion & Cathodic Protection

Duration

Full day – Classroom Session and Site Visit

Cargo Dock Field Operator Training

This training is designed specifically to cover comprehensive knowledge that has to be fulfilled by field operators who are in charge of operating LNG ISO Tank directly in the cargo dock area.

Objective

Participants will be capable and skilled to be professional Field Operators at the cargo dock to perform ISO Tank operation safely and efficiently.

Target Participant

- Filling Station Operators
- ISO Tank Truck Drivers
- ISO Tank Technician
- Maintenance Crew in Filling Station
- Safety Man
- Scheduler

Instructor

Operation & HSSE Special Team with more than 10 years of experience in cargo dock field operations and remarkable skills in the development of Standard Operating Procedure (SOP) and Working Instructions, field activities coordination, which includes repair, performance test, troubleshooting, manpower and spare parts.

Duration

Full day – Classroom Session and Site Visit



Cargo Dock Safetyman Training

This training program is designed specifically to focus on safety operations at the cargo dock area that has to be fulfilled for the operational and occupational matters.



Objective

Participants will be capable and skilled to be professional Field Operators at the cargo dock to perform ISO Tank operation safely and efficiently.

Target Participant

- Safety Man
- LNG Filling Station Operator

Instructor

Operation & HSSE Specialist Team with more than 10 years of experience in cargo dock field operations and remarkable skills in the development of Standard Operating Procedure (SOP) and Working Instruction, field activities coordination, which includes repair, performance test, troubleshooting, manpower and spare parts.

Duration

Full day – Classroom Session and Site Visit

Basic & Advanced Marine Operation

This training offers a broad view on how marine operations work that includes important factors and requirements of Marine Operation.

Objective

Participants will acquire operational perspectives and applicable skills in Marine Operation.

Target Participant

- Fleet Engineer
- Officer in Marine Regulation
- Marine Surveyor
- Marine Officer

Instructor

Marine Specialists with more than 10 years of experience in LNG Cargo Handling, Cargo & Ballast Activities, Port Operation Management and Ship Operation Management.

Duration

Full Day – Classroom Session and Site Visit



Hydrocarbon Firefighting Training

This training focuses on basic theory about fires, firefighting equipment and hydrocarbon firefighting which is simulated, e.g. pump seal leaks, piping flanges, and boilers as well as several other simulated emergency situations.



Objective

Participants will develop safety awareness and enhance understanding of proper techniques of Hydrocarbon firefighting in various situations.

Instructor

HSSE Team with more than 10 years of experience in the course delivered, consist of Basic & Advanced Hydrocarbon (HC) Firefighting, LNG Firefighting, Self-Contained Breathing Apparatus (SCBA), Basic High Vertical Rescue and Confined Space.

Target Participant

- Fire Man
- Safety Man
- HSSE Officer/Personnel
- Plant Operators
- Maintenance Personnel

Duration

Full Day – Classroom Session and Site Visit

LNG Firefighting Training

This training is an introduction to the basics of firefighting and safety.

Objective

Participants will develop safety awareness and enhance understanding on proper techniques of LNG firefighting in various situations.

Target Participant

- Fireman
- Rescuer
- Fire Engineer
- Fire Commander
- HSE Supervisor
- HSE Consultant

Instructor

HSSE Team with more than 10 years of experience in the course delivered, consist of Basic & Advanced Hydrocarbon (HC) Firefighting, LNG Firefighting, Self-Contained Breathing Apparatus (SCBA), Basic High Vertical Rescue and Confined Space.

Duration

Full day – Classroom Session and Hands-On Activities



Rescue Training

This training is designed to acquire understanding about rescue procedures in various situations with multiple simulated scenarios, such as confined space, smoke chamber, vertical rescue, etc.



Objective

Participants will develop the skills to carry out a rescue based on procedures from several hands-on activities and exposure to several simulated scenes. Participants also gain experience on how to anticipate and to respond to various circumstances.

Target Participant

- Fireman
- Rescuer
- Fire Chief

Instructor

HSSE Team (IRATA Instructor) Badak LNG

Duration

Full day – Classroom Session and Hands-On Activities

Basic Emergency Response Team (ERT) Technician

This training provides basic and essential skills to respond effectively in emergency situations as firefighting and safety Emergency Respond Team.

Objective

Participants will be enriched with various capabilities required to perform basic emergency response as Basic ERT Member.

Target Participant

Junior Fireman

Instructor

HSSE Team Badak LNG

Duration

Full day – Classroom Session



Advanced Emergency Response Team (ERT) Technician

This training aimed for the Advanced of Emergency Response Team firefighting, safety and rescue with multiple simulated scenarios.



Objective

Participants will be enriched with various capabilities to respond effectively to emergency situations Advanced ERT Member.

Target Participant

Fireman and Fire Chief

Instructor

HSSE Team Badak LNG

Duration

Full day – Classroom Session

Basic First Aid Course Training

This training is ideal for employees who work in a low-risk environment and client groups where assessment of needs indicates the level of appropriate first aid training.

Objective

Participants will develop understanding of the role and responsibilities of the First Aider, capable of assessing the situation and acting safely, effectively and promptly to prevent further injury.

Target Participant

Any Participants

Instructor

HSSE Team Badak LNG

Duration

Full day – Classroom Session and Site Visit



Health, Safety & Environment (HSE) Training

This training aims to provide directions to improve performance in the field of Occupational Health/Safety & Environment (Keamanan, Keselamatan & Kesehatan Kerja / K3L) in its integration with company performance.



Objective

Participants will develop safety awareness and enhance understanding on field activities preparation and appropriate activities that facilitate the documentation and the implementation of comprehensive HSE Management System.



Target Participant

Any Participants



Instructor

HSSE Team Badak LNG



Duration

Full day – Classroom Session and Site Visit

Basic & Advanced Laboratory Technician Training

Our lab training provides theoretical and hands-on activities to various laboratory technicians that comply with ISO 17025.

Objective

Trainees will gain various skills within the scope of work to fulfill the requirements as laboratory technicians.

Target Participant

- Laboratory Technician
- Environmental Technician/Officer

Instructor

Lab & Environment Control Team Badak LNG

Duration

3 months, the training is divided into 3 sessions:

- Basic Training
- On-the-Job Training (OJT)
- Job-Specific Training (JST)



Corporate Social Responsibility (CSR) Program Training

This training covers key factors that contribute to the success of the company's CSR program.



Objective

Participants will gain a complete view of various solutions to develop and improve CSR program that is suitable with the participants' company ecosystem and in line with the innovation, ethics and sustainability strategy of the company.

Target Participant

CSR Specialists

Instructor

Corporate Communication Team Badak LNG

Duration

Full day – Classroom Session

Digital Health Risk Assessment (HRA) Development

This training focuses on structured and systematic identification and the analysis of health hazards in the workplace, that aims to control potential health risk through the development and implementation of occupational health programs.

Objective

Participants will develop:

- understanding the applicable rules and legal requirements related to occupational health
- understanding the potential health hazards that might exist in the workplace
- understanding the employees' main health problems
- capability to determine and run the appropriate and measurable occupational health program
- capability to evaluate program implementation independently
- capability to apply digital HRA to synchronize all data for analysis

Target Participant

Any Participants

Instructor

HSSE Team Badak LNG

Duration

Full day – Classroom Session



Medical Check Up Analysis

This training covers methods of monitoring the health status of employees to detect early signs of health problems caused by the influence of the working environment. Thus, the health risk can be minimized by developing plans to prevent occupational diseases (Penyakit Akibat Kerja/PAK) from occurring.



Objective

Participants will:

- understand how to prevent health problems due to hazardous factors in the workplace
- obtain worker health data according to the type of work and risk factors according to the job
- discover the relationship between the pattern of illness suffered by employees and their work environment
- comply with the applicable laws and regulations
- apply digital HRA to synchronize all data for analysis

Target Participant

Any Participants

Instructor

HSSE Team Badak LNG

Duration

Full day – Classroom session

- **Hazard Identification, Risk Assessment and Determining Control (HIRADC) Training**
- **HIRADC Documents Development Training**

HIRADC is a method to identify hazards, risk and determine control over hazards in the working environment. HIRADC is the embodiment of PP No. 50 of 2012 concerning the Occupational Health and Safety Management System (SMK3) which focuses on planning the aspects that must be carried out by companies with reference to the hazard identification, risk assessment and determine hazard control.

Objective

Participants will be able to:

- identify all the factors and causes that could potentially harm the workforce and people in the working environment
- consider the possibility of actual harm that might happen to anyone in a particular case, as well as the impacts and consequences that may arise
- plan, introduce and monitor control measures to ensure potential risks are in control at all times

Target Participant

Any participants

Instructor

HSSE Team Badak LNG

Duration

Full day – Classroom Session



Fundamental of Industrial Hygiene

Industrial Hygiene is developed based on anticipation, recognition, evaluation and control against conditions in the working environment that might cause work-related injuries or illnesses. This is developed through monitoring the working environment with analysis to detect employees' exposure and controlled through technical control, administrative control and other control measures to prevent health problems to employees.



Objective

Participants will develop understanding on the role of an Industrial Hygiene implementer and become aware of the potential hazards that exist in the working environment (e.g. Physical, Chemical, Ergonomic, Biological), and hazard sources in the workplace.

Target Participant

Any Participants

Instructor

HSSE Team Badak LNG

Duration

Full day – Classroom Session

- **Hearing Conservation Program (HCP) Training**
- **Development & Assistance of Hearing Conservation Program (HCP) Training**

This training is designed to find out the hearing health status of employees who are exposed to noise based on data.

Objective

Participants will be able to prevent or reduce the possibility of damage or hearing loss to employees due to noise in the workplace.

Target Participant

Any Participants

Instructor

HSSE Team Badak LNG

Duration

Full day – Classroom Session



Measurement of Industrial Hygiene Monitoring and Biomonitoring

This training consists of technical guidance to operate the equipments used for measurement of hazard factors, such as physical, chemical, biological, ergonomics, psychosocial, and biomonitoring.



Objective

Participants will be able to use the measurement equipments in methods that comply with approved standards.

Target Participant

Any Participants

Instructor

HSSE Team Badak LNG

Duration

Full day – Classroom Session

Pest Management

This covers the basics of urban pest and integrated pest management or integrated residential pest control. This training is carried out offline with a team of experts and entomologist practitioners for Pest Control Operator (PCO), Company Technician and Company Supervisor.

Objective

Participants will be capable of controlling the use of low toxic chemicals, including the risk of using chemicals to staff/users, damage to property, environmental improvements, financial savings, etc.

Target Participant

Any Participants

Instructor

HSSE Team Badak LNG

Duration

Full day – Classroom Session



Work Climate Control & Mitigation Program

This training explores the working temperature, humidity, air movement speed and radiation temperature within a workplace. Unfavorable weather, not in accordance with certain conditions, can result in decreased work efficiency and productivity.



Objective

Participants will develop the capability to determine effective program to control and mitigate work climate exposure at work.

Target Participant

Any Participants

Instructor

HSSE Team Badak LNG

Duration

Full day – Classroom Session

Basic Occupational Noise Exposure

Occupational noise is noise produced in the workplace. Occupational noise, or industrial noise, is often a term used in occupational safety and health. A sustained exposure can cause permanent hearing damage.

Objective

Participants will gain understanding on how to identify the occupational noise exposure and developing appropriate control program.

Target Participant

Any Participants

Instructor

HSSE Team Badak LNG

Duration

Full day – Classroom Session and Site Visit



Occupational Health & Industrial Hygiene (OHIH) Reports

This aims to process data from the results of OHIH activities, so that conclusions can be determined and be reported to the company management.



Objective

Participants will be capable of determining the effective control measures which in accordance with the hazards of the work process where risk level has been assessed.

Target Participant

Any Participants

Instructor

HSSE Team Badak LNG

Duration

Full day – Classroom Session and Site Visit

Task Risk Assessment (TRA) Training

This training consists of structured and systematic identification and analysis of health hazards and safety hazards in the working environment. This aims to control risks through the development and implementation of occupational health and safety programs.

Objective

Participants will be able to:

- grasp an understanding of the applicable rules and legal requirements regarding occupational health & safety
- develop understanding of the potential health & safety hazards that exist in the workplace
- gain an understanding of the main health and safety problems of employees
- determine and run appropriate & measurable occupational health and safety programs and capable of evaluating program implementation independently

Target Participant

Any Participants

Instructor

HSSE Team Badak LNG

Duration

Full day – Classroom Session and Site Visit



5 LPG Tanks

Total Capacity: 200,000 m³

6 LNG Tanks

Total Capacity: 636,000 m³

3 Loading Docks

Current Utilization:
2 Docks

Cargo Dock for ISO Tank loading with LCT

Currently Under Evaluation

LNG Filling Station

Loading Capacity: 36 ISO Tank/day



Maintenance Facility

Warehouse & Workshop

8 LNG Trains

Production Capacity: 22.5 million ton/year, current utilization: 2 trains ~ 4.8 million ton/year

LPG Plant

Production Capacity: 1 million ton/year

PLTS 4 MWp

In cooperation with Pertamina Power Indonesia

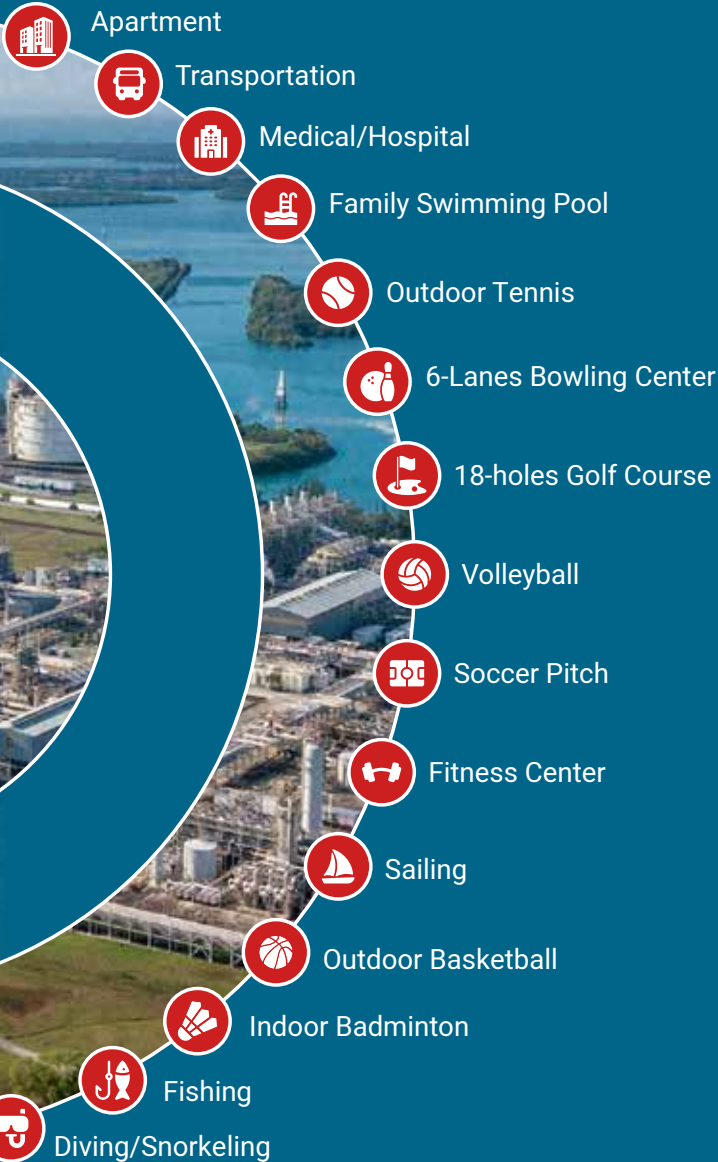


LNG
Excellence



Company Facilities

Badak LNG Learning Center provides variety of facilities e.g. accommodation, transportation, sports and recreation facilities for company visitors and training participants.

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- Apartment
 - Transportation
 - Medical/Hospital
 - Family Swimming Pool
 - Outdoor Tennis
 - 6-Lanes Bowling Center
 - 18-holes Golf Course
 - Volleyball
 - Soccer Pitch
 - Fitness Center
 - Sailing
 - Outdoor Basketball
 - Indoor Badminton
 - Fishing
 - Diving/Snorkeling





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