



# TRAINING CATALOGUE

Academy Korea

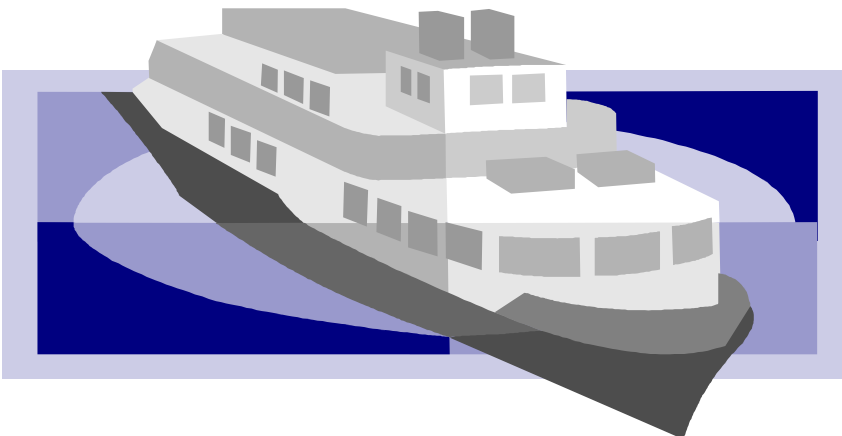
## Practical training centre for shipbuilding and offshore structures

One of the major blind spots of Korean school system is that it is not easy to obtain applicable knowledge acquired for industries with real practices. Therefore, it is essential to build own competence and skills through practical training after graduating from the school. In other word, as it is difficult for most engineers to directly apply the theories learned from schools to the real design and production at the shipyard, we need separate practical training programs for those engineers.

DNV GL Academy Korea was first established in 2001 as a unique training centre providing practical trainings for shipbuilding and offshore technology. For last fourteen years in Korea, approximately 20,000 engineers in shipyards, owners' site teams, and manufacturers have participated in DNV GL Academy training programs.

We opened a new training facility at Pusan in 2009 to offer more comfortable and competitive training environment for our trainees. We continuously try our best to improve our training quality and our experienced training specialists worldwide are always dedicated to share our knowledge with our customers.

DNV GL Academy Korea as a training partner has contributed to the development of Korea's maritime industry, and DNV GL Academy will continue to progress and develop itself aligned with requirements of industry and society.



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### For more information

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## 0001 Introduction to Shipbuilding 3 DAYS

### Contents

- Shipbuilding, Shipping & Operation statistics
- Organization of maritime regime, Rules & Regulations, Class roles, Shipyard position
- Shipbuilding process & Information
- Ships structure & Basic design concept
- Ship's typical damages in operation for each type of ships
- Bulk carriers/Tankers/Containers – structure and details
- Hierarchy of hull structure & Strength
- Steel materials logic
- Navigation & other operational systems
- Information on hull production & inspection
- Certification of equipment & Components

### Objective

Upon completion of this course, the participants will understand general information on ships & shipbuilding, class systematic, ship's operation condition and critical points, ships' general systems & function, hull structure & strength concept, and design basic concept

### Target Group

All engineers newly employed working in shipping /shipbuilding (Design, production, QC & Supervisors)

Price : KRW 570,000 + VAT 10%

## 1000 Stability – Concept & Rules 2 DAYS

### Contents

- International rules & Regulations
- Stability basic terms
- Hydrostatics
- Intact stability
- Damage stability calculation (MARPOL, ICLL)
- Probabilistic damage stability (SOLAS)
- Inclining experiment
- Ballast water management
- Tonnage
- Critical cases
- Calculation examples

### Objective

Upon completion of this course, the participants will understand basic ship stability, Rules and regulations, intact/damage stability, inclining test & tonnage calculation and calculation method for light weight & LCG, etc.

### Target Group

- All engineers working in shipping/shipbuilding (Design, production, QC & Supervisors)
- New designers in basic design departments

Price : KRW 380,000 + VAT 10%

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## 1001 Hull Structure & Strength – Concept & Rules 3 DAYS

### Contents

- Maritime Regime
  - Class Systematic & its role
  - The importance of ship's operational aspects and critical points in designs
  - Organisation of maritime regime and its effect on shipyard
  - Overview & background of various conventions
- Hull strength basic
  - Shipbuilding trend
  - Ship's operation and typical damages
  - Hierarchy of hull structure & strength
  - Strength criteria & requirements
  - Hull steel materials logic
- Practical design aspects
  - Background of prescriptive rule requirement
  - Welding and detail construction design
  - Inspection & N.D.T.

### Objective

Upon completion of this course the participants will understand general information on shipbuilding, Class systematic, ship's operation condition and critical points, hull structure and force flow, strength concept & design points, general hull Rules and the background, etc.

### Target Group

- All engineers working in shipping/shipbuilding (Design, production, QC & Supervisors)
- New designers in basic hull design departments

Price : KRW 570,000 + VAT 10%

## 1002 System General & Statutory – Concept & Rules 3 DAYS

### Contents

- Basic principles of accommodation design
- Basic principles of machinery arrangement, piping, ventilation and insulation
- Rules and regulations introduced by IMO, ILO and Class
- General review of machinery outfitting, hull outfitting, piping and accommodation outfitting
- Application of international conventions

### Objective

Upon completion of this course the participants will understand role of Class, purpose of Rules, regulations and recommendations, ship's function, basic concept of system, etc.

### Target Group

- All engineers working in shipping/shipbuilding (Design, production, QC & Supervisors)
- New designers in basic system design departments

Price : KRW 570,000 + VAT 10%

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### **1003 Electric general - Principles & Rules 2 DAYS**

#### **Contents**

- Basic concept of electric systems
- Electrical equipment and the function
- General principles and requirements
- Instrumentation and control systems
- Emergency source

#### **Objective**

Upon completion of this course the participants will understand what are Rules and regulations, electrical systems in principle, alarm & control system and instrumentation in principle, etc.

#### **Target Group**

- All engineers working in shipping/shipbuilding (Design, production, QC & Supervisors)
- New designers in basic electric design departments

Price : KRW 380,000 + VAT 10%

### **2003 Container carriers - Hull design 2 DAYS**

#### **Contents**

- General hull structure of container carriers
- Container carrier statistic and market & design trend
- Class Rules and application
- Guidance for strength analysis
- Tensional strength analysis method
- Operational aspects and design concept
- Container ship evolution & current design trend
- Container securing
- Interaction between hull structure & outfitting
- Critical areas for hull structure
- Typical hull damages

#### **Objective**

Upon completion of this course the participants will understand container carrier operation, container carrier strength & design, container carrier rules background, container securing & outfitting and critical areas in design, etc.

#### **Target Group**

Engineers who have attended the basic hull course or Engineers who have more than 2 years experience in hull Design.

Price : KRW 480,000 + VAT 10%

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**2004 Machinery Piping & Statutory Design  
3 DAYS****Contents**

- Design principles
- Ship piping system
- Machinery piping system
- Pipes, pumps, valves, flexible hoses and detachable pipe connections
- Ventilation system
- Fire-fighting system

**Objective**

Upon completion of this course the participants will understand applicable class rules and international regulations, machinery & system design in general, oil pollution, drainage of compartment, handling of fuel oil, ventilation, etc.

**Target Group**

Engineers who have attended the basic hull course or engineers who have more than 2 years experience in machinery piping design.

Price : KRW 720,000 + VAT 10%

**2006 Piping System & Statutory Design  
3 DAYS****Contents**

- Cargo handling system and cargo vessels
- Applicable Class Rules and international requirements
- Design principles of ballast, bilge, air, sounding, deck fire-fighting, fire integrity, load line and ventilation system in cargo area
- Rule background and the application
- Relevant MARPOL, SOLAS, LL and BC code

**Objective**

Upon completion of this course the participants will understand ship cargo handling system, applicable class rules & international requirements, design principle of each system, Classification of cargoes, etc.

**Target Group**

Engineers who have attended the system general course or engineers who have more than 2 years experience in hull Piping.

Price : KRW 720,000 + VAT 10%

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## 2007 Accommodation design 2 DAYS

### Contents

- Background of Rules for accommodation and the application
- Relevant regulations of SOLAS and ILO convention
- Arrangement of means of escape
- Ventilation system in accommodation
- Fire insulation/detection/alarm/fight system in accommodation
- General requirements for ship's piping system
- Rules and convention for sanitary and fresh water system

### Objective

Upon completion of this course the participants will understand SOLAS 74 & ILO requirements, fire technical considerations, means of escape, details of construction, accommodation comfort, ventilation system, etc.

### Target Group

Engineers who have attended the system general course or Engineers who have more than 2 years experience in accommodation design.

Price : KRW 480,000 + VAT 10%

## 2008 Electric design 2 DAYS

### Contents

- General requirements, class & statutory
- Design principles
- Distribution principles & redundancy
- Emergency source
- Control systems
- Instrumentation
- General installation onboard

### Objective

Upon completion of this course the participants will understand applicable Rules & regulations, electrical system in principle, alarm & control system, instrumentation in principle, etc.

### Target Group

Engineers who have attended the electric general course or Engineers who have more than 2 years experience in electric Design.

Price : KRW 480,000 + VAT 10%

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**2010 Safety of navigation I –Equipment  
2 DAYS****Contents**

- SOLAS Chapter V
  - IMO performance standards
- NAUT-class notations
  - additional performance requirements
  - certification requirements
- Interconnection of navigational systems
  - IEC 61162 series of standards
- Integrated Navigation Systems INS
  - IEC standards 61924-2 (INS)
  - IEC standards 61162-450 (LAN)
- NAUT-suffix ICS (integrated computer systems)
- eNavigation
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**Objective**

Upon completion of this course the participants will understand IMO SOLAS carriage requirements, DNV Rules and application, etc.

**Target Group**

Experienced engineers/designers more than 2 years

Price : KRW 480,000 + VAT 10%

**2012 Car Carrier – Hull Design and General  
2 DAYS****Contents**

- History of Car carriers
- Market Status and Demands
- Hull Structures
- Stability
- System and Statutory
- RO/RO Equipment

**Objective**

Upon completion of this course the participants will take the hull design and general understanding of car carriers.

**Target Group**

Engineers for car carriers  
Maker for RO/RO equipment  
QM or Superintendent Performing Relevant Inspection  
Anyone interested in Car carriers

Price : KRW 480,000 + VAT 10%

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## 2013 Energy Efficiency Design Index(EEDI) 2 DAYS

### Contents

- Introduction of EEDI regulations
- Required EEDI
- Attained EEDI
- Verification process
- Model tank test for EEDI
- Speed trial procedure
- Speed trial correction
- Innovative technologies and their influence on EEDI

### Objective

Upon completion of this course, the participants will get an overview of EEDI regulations, verification scope of model tank test, procedure & correction of speed trial and effects of innovative technologies on EEDI.

### Target Group

Yard engineers who are involved in EEDI-related activities and who want to get a good foundation for EEDI

Price : KRW 480,000 + VAT 10%

## 3000 Harmonized CSR 3 DAYS

### Contents

- General hull structure of tanker and bulker
- Design basis
- Load concepts and application of loads
- Hull girder strength
  - Hull girder yield strength, hull girder ultimate strength & hull girder residual strength
- Hull local scantlings
  - Prescriptive requirements
- Direct strength analysis
  - Hold structural strength analysis
  - Local fine mesh structural strength analysis
- Buckling
- Fatigue
- Material & welding
- Ship type specific requirements

### Objective

Upon completion of this course the participants will get an overview of harmonized CSR with reference to hull strength & design concept, technical rule background and differences between harmonized CSR and CSR Tank or CSR Bulk.

### Target Group

Engineers who are familiar with basic hull concepts & design or experienced engineer for CSR Tank and CSR Bulk.

Price : KRW 930,000 + VAT 10%

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**3002-1 Fatigue Assessment I  
2 DAYS****Contents**

- Fatigue damages
- SN-curves and miner summation
- Fatigue assessment for NAUTICUS(Newbuilding), Classification Notes 30.7
- Introduction to fatigue assessment for PULS-1/PULS-2

**Objective**

Upon completion of this course the participants will understand fatigue basic, DNV CN for fatigue and the procedure for PULS notations, NAUTICUS software for fatigue strength assessment, etc.

**Target Group**

Engineers in hull/outfitting department having more than 2 Years experience.

Price : KRW 620,000 + VAT 10%

**3002-2 Fatigue Assessment II  
2 DAYS****Contents**

- SN-curves and miner summation
- Summary of Classification Notes 30.7 and PLUS1/PLUS-2
- Introduction to wave load analysis and full stochastic fatigue analysis
- Direct calculation method of fatigue assessment

**Objective**

Upon completion of this course the participants will understand fatigue basic, DNV CN for fatigue and the procedure for PLUS notations, NAUTICUS software for fatigue strength assessment, direct calculation method etc.

**Target Group**

Engineers in hull/outfitting department having more than 2 years experience

Price : KRW 620,000 + VAT 10%

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**3005 Material Technology  
3 DAYS****Contents**

- Basic requirements to construction materials
- Basic facts about metallic materials
- Phase diagrams
- Steels, carbon manganese, aluminum, stainless steels and others

**Objective**

Upon completion of this course the participants will understand materials, application to ships, requirements, etc.

**Target Group**

Engineers in hull/outfitting design department having more than 2 years experience

Price : KRW 930,000 + VAT 10%

**3006 Noise & Vibration  
2 DAYS****Contents**

- Concept of noise & vibration
- 1st step, 2nd step and 3rd step analysis
- Measurements and trouble shooting
- Design recommendations to reduce noise & vibration

**Objective**

Upon completion of this course the participants will understand concept of noise & vibration, approach method, analysis steps, design against noise & vibration, etc.

**Target Group**

Engineers having basic knowledge in noise & vibration and in FEA

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**3007 LNG – Hull  
2 DAYS****Contents**

- Rules and regulations
- Strength analysis
- Temperature analysis and materials

**Objective**

Upon completion of this course the participants will obtain improved understanding of LNG carriers, strength of hull structures, Rules and regulations, material selection for lower temperature cargoes, etc.

**Target Group**

Engineers having basic knowledge in hull design and gas carriers

Price : KRW 620,000 + VAT 10%

**3008 LNG – System  
2 DAYS****Contents**

- LNG cargo handling, systems & operation
- Cargo piping
- Cargo tank safety relief valves
- Fire protection
- Personnel protection equipment
- Electric installations in cargo area
- Instrumentation & cargo equipment

**Objective**

Upon completion of this course the participants will understand LNG carriers, cargo containment system, Rules and regulations, etc.

**Target Group**

Engineers having basic knowledge in system design and gas carriers

Price : KRW 620,000 + VAT 10%

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**3012 Offshore – Hull General  
2 DAYS****Contents**

- FPSO Hull design
- DNV offshore standard and recommended practices for offshore ships
- Direct analysis of wave bending moments and shear forces
- FPSO design by DNV Software
- Preliminary section scantlings
- Design of FPSO specific details

**Objective**

Upon completion of this course the participants will understand structure design of FPSO units from the initial design phase to the detail design phase, etc.

**Target Group**

Structural engineers/naval architects with basic knowledge of structural design of ship and/or offshore structures

Price : KRW 700,000 + VAT 10%

**3013 Offshore – System General  
2 DAYS****Contents**

- General introduction to modern offshore technology
- Conversion and subsea systems
- Principles of area classification
- Emergency Shut Down (ESD) Systems
- Fire and Gas (F&G) detection systems
- Fire integrity

**Objective**

Upon completion of this course the participants will understand the basic principles of modern offshore technology, special features and requirements for a FPSO compared to a conventional tanker, DNV Offshore Standards and applicable recognized international standards, etc.

**Target Group**

System engineers with basic knowledge of system design of ship and/or offshore structures

Price : KRW 700,000 + VAT 10%

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**3014 LPG – Hull  
2 DAYS****Contents**

- Basic properties of gas carriers
- LPG carriers – Tank type A and type C
- Rules and regulations
- Design loads
- Material selection for lower temperature cargoes
- Strength of hull structure and cargo tanks
- Critical details

**Objective**

Upon completion of this course the participants will obtain improved understanding of LPG carriers, strength of hull structures, Rules and regulations, material selection for higher and lower temperature cargoes, etc.

**Target Group**

Engineers having basic knowledge in hull design and gas carriers

Price : KRW 620,000 + VAT 10%

**3015 LPG – System  
2 DAYS****Contents**

- Applicable rules & regulations, Type of cargoes
- Damage stability & cargo tank location
- Ship arrangement
- Cargo containment
- Cargo handling systems I & II
- Design of pressure vessel type cargo tanks
- Design of prismatic type cargo tanks

**Objective**

Upon completion of this course the participants will understand LPG carriers, cargo containment system, Rules and regulations, etc.

**Target Group**

Engineers having basic knowledge in system design and gas carriers

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### **3019 Drillship Hull 2 DAYS**

#### **Contents**

- Basic principles of drilling vessel design
  - Drilling semi-submersible
  - Drill ship's
  - Self-elevating units
- Rules, Regulations, Classification of drillship
- Hull Girder Capacity (yield, buckling)
- Fatigue Assessment
- Structural design for structural categories (special/primary/secondary)
- Hull interface (moonpool area, substructure)

#### **Objective**

Upon completion of this course the participants will understand basic design concept of drillship's hull, differences between standard ship design and drillship design and how to apply the DNV standards for hull design

#### **Target Group**

All engineers working in offshore/drillship segment (design, production, QC & supervisors)

Price : KRW 700,000 + VAT 10%

### **3020 Drillship System 2 DAYS**

#### **Contents**

- The basic principles of modern drilling system technology
- Rules, Regulations and Classification of drillship
- Special features of a drillship
- Drilling systems
- Safety related aspects
- System interfaces
  - Risk analysis

#### **Objective**

Upon completion of this course the participants will understand the basic principles of modern drillship technology, special features of drilling units and an overview of production systems, drilling systems, layout and rules & regulations etc.

#### **Target Group**

All engineers working in offshore/drillship segment (design, production, QC & supervisors)

Price : KRW 700,000 + VAT 10%

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**3021 FLNG Hull  
2 DAYS****Contents**

- Basic design concept and design philosophy of FLNG
  - General arrangement and layout
  - Material selection
  - Structural strength
  - Stability
- Rules, Regulations to be applied
- Scope of DNV Classification
- Use of Risk Assessment in FLNG design
  - Collisions
  - Sloshing
  - Stability and Buoyancy hazards

**Objective**

Upon completion of this course the participants will understand basic design concept of FLNG, strength criteria & requirements and maintenance/inspection philosophies of FLNG

**Target Group**

All engineers working in LNG FPSO & FSRU segment (design, production, QC & supervisors)

Price : KRW 620,000 + VAT 10%

**3022 FLNG System  
2 DAYS****Contents**

- Basic design concept and design philosophy of FLNG
  - Process descriptions and process flow diagrams
  - Operation/Safety philosophy
- Conceptual level design
  - Safety systems
  - Emergency shutdown
  - Electric systems
  - Mechanical systems
- Rules & Regulations to be applied
- Use of Risk Assessment in FLNG design
  - Loss of well containment for LNG production installations
  - Gas release into confined space
  - Release of toxic on other hazardous substance
  - Loss of mooring, propulsion, station keeping

**Objective**

Upon completion of this course the participants will understand basic design concept of FLNG's safety, novel aspects and application in LNG transfer, conceptual system design

**Target Group**

All engineers working in LNG FPSO & FSRU segment (design, production, QC & supervisors)

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## 4101 Welding in Structure & Piping 2 DAYS

### Contents

- p-WPS
  - Welding metallurgy
  - Rule requirements
- Welding Procedure Specification
  - Essential Valuable (ASME,AWS,ISO,NORSOK &DNV)
- Welder qualification
- Rule interpretation

### Objective

Upon completion of this course the participants will understand general information on general requirements of code and DNV rule, Welder qualification procedure and how to establish WPS

### Target Group

Welding Engineers or QC person working for manufacturers supplying structures or steel products manufacturers

Price : KRW 470,000 + VAT 10%

## 4103 Casting Technology 2 DAYS

### Contents

- Basic of metallurgy
- Steel making technologies
- Heat treatment technologies
- Casting making
- Mechanical Testing
- NORSOK-M122
- Approval of manufacturer

### Objective

Upon completion of this course the participants will understand general information on Welding & NDT, updated technology in Welding & NDT and how to improve productivity

### Target Group

All engineers who are involved in the service areas of welding & NDT

Price : KRW 470,000 + VAT 10%

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**4104 Forging Technology  
2 DAYS****Contents**

- Basic of metallurgy
- Steel making technologies
- Heat treatment technologies
- Forging making
- Mechanical Testing
- NORSOK M-123
- Approval of manufacturer

**Objective**

Upon completion of this course the participants will understand general requirements for materials, manufacture, inspection, certification and testing procedures

**Target Group**

All engineers who are working for manufacturers supplying forging and casting to the shipyards

Price : KRW 470,000 + VAT 10%

**4107 Navigation Lights Arrangement  
1 DAY****Contents**

- COLREG General
- Steering & Sailing Rules
- Lights and Shapes
- Sound and Light Signals
- Positioning and Technical Details of Lights and Shapes
- Relevant Performance Standards
- Installation and Inspection

**Objective**

Upon completion of this course the participants will understand COLREG and how to arrange and test the navigation lights.

**Target Group**

Engineer for Navigation Lights Arrangement  
Maker for Navigation Lights, Whistles and Etc.  
QM or Superintendent Performing Relevant Inspection  
Anyone interested in Navigation Lights Arrangement

Price : KRW 235,000 + VAT 10%

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**4108 Pressure Equipment – General & Rules  
2 DAYS****Contents**

- General requirement
- Material
- Arrangement
- General design requirement
- Particular design requirements for boilers
- Mounting and fitting
- Instrumentation and automation
- Workmanship and testing

**Objective**

Upon completion of this course the participants will understand rule requirement for pressure vessels and how to design it.

**Target Group**

Engineers for Pressure vessels such as boiler, heat exchanger and air receiver

Price : KRW 470,000 + VAT 10%

**4109 Welding Procedure Qualification  
according to ASME Sec. IX  
1 DAY****Contents**

- Contents of WPS-PQR according to ASME Sec. IX
- Essential Variables for WPQT
- Welding Metallurgy
- Welding Defects
- Exercise for preparation of WPS-PQR according to ASME Sec. IX

**Objective**

Upon completion of this course the participants will understand how to prepare and qualify WPS according to ASME Sec. IX

**Target Group**

All engineers who are involved in the service areas of welding

Price : KRW 235,000 + VAT 10%

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### **4110 Welding Procedure Qualification according to AWS D1.1 1 DAY**

#### **Contents**

- Contents of WPS-PQR according to AWS D1.1
- Essential Variables for WPQT
- Welding Metallurgy
- Welding Defects
- Exercise for preparation of WPS-PQR according to AWS D1.1

#### **Objective**

Upon completion of this course the participants will understand how to prepare and qualify WPS according to AWS D1.1

#### **Target Group**

All engineers who are involved in the service areas of welding

Price : KRW 235,000 + VAT 10%

### **6002-1 NORSOK Standard - Material 2 DAYS**

#### **Contents**

- Basic, Melting and Rolling
- M-001 Material Selection
- M-101 Structural Steel Fabrication
- M-120 Material Data
- M-122 Cast Structural Steel
- M-123 Forged Structural Steel
- M-601 Welding and Inspection of piping
- M-630 Material Data Sheets for piping

#### **Objective**

Upon completion of this course the participants will understand the background of the NORSOK Regime and how the standards are developed and maintained

#### **Target Group**

All engineers working in offshore plant project

Price : KRW 620,000 + VAT 10%

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## **6002-2 NORSOK Standard - Safety/Working Environment 2 DAYS**

### **Contents**

- Introduction of S-001, S-002, S-003, S-005, S-006, S-011, S-012
- S-002 Working Environment
- S-012 Health, Safety and Environment (HSE) in construction – related activities
- Rules and Regulations – PSA Regulations

### **Objective**

Upon completion of this course the participants will understand the background of the NORSOK Regime and how the standards are developed and maintained

### **Target Group**

All engineers working in offshore plant project

Price : KRW 620,000 + VAT 10%

## **6002-3 NORSOK Standard - Hull Structure 2 DAYS**

### **Contents**

- Standards in Norwegian Regulations
- N-001 Integrity of Offshore Structures
- N-003 Actions and Action Effects
- N-004 Design of Steel Structures
- N-005 Conditioning monitoring of loadbearing structures
- Global structural analysis
- Hydrodynamic analysis
- ULS/SLS/FLS assessment

### **Objective**

Upon completion of this course the participants will understand the background of the NORSOK Regime and how the standards are developed and maintained

### **Target Group**

Structural design engineers working in offshore plant project

Price : KRW 620,000 + VAT 10%

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**6002-5 NORSOK projects – Lessons Learned  
2 DAYS****Contents**

This course highlights the most challenging areas when applying the NORSOK standards including specific solutions for how these challenges can be effectively addressed

**Objective**

Upon completion of this course the participants will have an understanding of typical pitfalls and challenges related to the application of NORSOK and how these can be effectively addressed. The course offers some interactive parts where the participants get the chance to share and reflect upon their own experiences from NORSOK projects.

**Target Group**

Project personnel involved in implementing NORSOK standards in design

Price : KRW 620,000 + VAT 10%

**6004 LNG Essential & Liquefaction System  
2 DAYS****Contents**

- LNG value chain overview
- LNG facts
- Feed pretreatment
  - Acid gas removal
  - Dehydration / Mercury removal
- LNG liquefaction cycle
  - Cascade cycle
  - Mixed refrigerant cycle (single MR, C3MR and etc)
  - N2 expander cycle
- Evaluation of liquefaction process for FLNG
- Cryogenic equipment for LNG liquefaction
  - Transfer system
  - Compressor / Expander / Heat exchanger

**Objective**

Upon completion of this course the participants will understand general information on LNG value chain and LNG liquefaction system including feed treatment system, various liquefaction cycles and FLNG applications etc.

**Target Group**

All engineers working in LNG projects and managers and marketing personnel who need to present and profile LNG capabilities

Price : KRW 620,000 + VAT 10%

**For more information**

Contact Person : Choi, Eun Hye / Tel: +82 51 610 7733

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[www.dnv.co.kr/services/training/](http://www.dnv.co.kr/services/training/)

**6005 Wave Load Analysis for Ship  
3 DAYS****Contents**

- Introduction of basis for hydrodynamics
- Overview of ship motion in waves
- Ship motion analysis using HydroD
- Estimation of roll damping using WAVESHIP
- Overview of statistics for sea waves
- Statistical post-processing using POSTRESP

**Objective**

Upon completion of this course the participants will understand hydrodynamic basis, ship motion in wave, etc. and will perform ship motions analysis, statistical post-processing using DNV SESAM package

**Target Group**

Engineers having basic knowledge in hydrodynamic analysis

Price : KRW 930,000 + VAT 10%

**6008 UK HSE - Safety Legislation Awareness  
2 DAYS****Contents**

- How and Why UK Offshore Safety Legislation has developed
- Overview – Which Documents Make-up UK Legislation
- Meaning and Requirement of Legislation
- European Directives – Focus on PED and ATEX
- Interfaces Between Legislation and Classification
- The Role of the HSE
- Verification – Performance Standards and Verification Schemes

**Objective**

Upon completion of this course the participants will understand an overview of the safety legislation applicable to offshore assets in the UK, the regulatory framework, and what it means to contractors

**Target Group**

Any contractor involved in projects for offshore assets to operate in UK waters – designers, consultants, vendors, fabricators

Price : KRW 760,000 + VAT 10%

**For more information**

Contact Person : Choi, Eun Hye / Tel: +82 51 610 7733

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## **6011 Dynamic Positioning System**

### **3 DAYS**

#### **Contents**

- DP system in general
- Design features - Interpretation of class rules
- ERN and FMEA – concepts and appreciation
- DP – Functionality, redundancy and failure response testing
- Survey requirements in terms of class rules

#### **Objective**

Upon completion of this course the participants will understand the design features, class rules related to DP system, Operational Challenges and Survey / Inspection requirements

#### **Target Group**

All engineers with experience of general ship systems and the fields of instrumentation, automation and electrical engineering

Price : KRW 930,000 + VAT 10%

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#### **For more information**

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## **6021 Marine Operations & MWS for Heavy Offshore Structures Project 2 DAYS**

### **Contents**

- Introduction to principles of Marine Operations
  - GL Noble Denton Guidelines for Marine Operations
- Major Event of Fabrication for Heavy Offshore Structures
  - Block /Module Erection / Jacking Up Operation
  - In-shore Lifting for FPSO Modules
  - Acceptance Criteria and Approval Method for MWS requirement
- Load-out Operation for Heavy Offshore Structures
  - Methods of Load-out Engineering (Analysis & Design)
  - Load-out Procedure/ Method statement
  - Acceptance Criteria and Approval Method for MWS requirement
- Sea-transportation for Heavy Offshore Structures
  - General Marine Transportation
  - Float on/off Operation (Piggy-Back Mode)
  - Tow Fatigue/Metocean Data
  - Acceptance Criteria and Approval Method for MWS requirement
- Float-over Operation for Heavy Topside Structure
  - Introduction of Float-over Installation Method
  - Main Installation Aids (LMU, DSU, LSF, Jacking System)
  - Analysis methods and principles
  - Acceptance Criteria and Approval Method for MWS requirement
- Offshore Wind Farm Infrastructure Installation
  - Approval Process
  - General Criteria & Manuals
  - Vessels / Load-out(Incl. Cable) / Marine Transportation / Installation

### **Objective**

Upon completion of this course the participants will understand a broad overview of offshore marine operations including load out, transport, installations and Fabrication. Also, the participants can understand the relevant Marine Warranty Surveyor Guidelines and Requirements.

### **Target Group**

All professionals who are involved in Heavy Offshore Structures Projects

Price : KRW 760,000 + VAT 10%

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#### **For more information**

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**7003 Professional Accident Investigation(PAI)  
3 DAYS**

This course provides participants with a thorough understanding of an effective incident investigation process and practice applying proven tools and techniques. It is built around an actual, robust case study providing real-world experience.

**Who should attend**

Investigation team leaders, site safety managers, production managers, safety management coordinators, and safety professionals responsible for incident investigation and risk management.

**Course highlights**

- Cause and effects of loss
- Establishing reporting and investigation procedures
- Investigation Pre-planning
- Position, People, Parts and Paper Evidence
- Recording the accident scene
- Uses of photography and mapping
- Techniques for effective interviewing and more

Price : KRW 600,000 + VAT 10%

**7004 Modern Safety Management 2 (MSM2)  
3 DAYS**

Modern Safety Management 2nd Edition was launched in 2007 to include the latest risk management concepts and techniques needed to implement an integrated health, safety, security, environmental and quality management system. Modern Safety Management 2nd Edition provides participants with practical and proactive management techniques to ensure safe and sustainable operations.

**Who should attend**

Key operating managers, safety and health professionals, quality or environmental management system managers, and supervisors of operations where hazards exist in the workplace.

Front line supervisors, middle managers, HSEQ managers, coordinators, senior managers

**Course highlights**

- Understanding management system
- Leadership
- Managing risk and risk recognition
- Risk evaluation
- Risk control
- Risk monitoring
- Culture and behavior
- Maintenance and inspections
- Change management
- Communication
- Changing behavior
- Contractor management
- Emergency preparedness
- Learning from events
- Monitoring, measuring and review

Price : KRW 600,000 + VAT 10%

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**7005 Behavior Based Safety (BBS)  
2 DAYS**

Behavioral safety management comprises a set of specific tools to enable an organization to identify at-risk behaviors, evaluate and prioritize those behaviors, and then develop effective behavioral control plans and programs to achieve desired results.

**Who should attend**

Professionals, safety consultants, safety officers, managers, executives, engineers, and supervisors who have the responsibility to develop, implement, and monitor the safe behavior management program and system

**Course highlights**

- Understanding Accident Causation and Control
- Safe Behavior Management
- The Behavioral Safety Observation Process
- How to Listen
- How to Develop Critical Behavior Lists
- How to Make Behavioral Observations
- How to Give Feedback

Price : KRW 400,000 + VAT 10%

**7006 Managing Contractor Safety (MCS)  
2 DAYS**

This course examines the need for managing safety in contractual relationships. It provides an opportunity for participants to think critically about their own organization's contractor control program. Through the use of interactive workshops and calibration groups, participants apply the ideas to their particular program needs.

**Who should attend**

Contract or subcontract administrators, project managers, purchasing managers, major contractors, safety / loss control professionals, and operational managers who want to know how to manage the contractor's safety, health, and loss control issues

**Course highlights**

- Managing safety in contractual relationships and concepts of loss control management
- The contractor selection process
- Pre-job planning and bid invitation preparation
- Contractor performance measurement and monitoring
- Contract close-out, turnover, and termination
- Control of subcontractors
- Action plan development

Price : KRW 400,000 + VAT 10%

**For more information**

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**7007 Job Safety Analysis (JSA)  
3 DAYS**

JSA (Job Safety Analysis) course is designed to help enhance and expand the task-based risk assessment and procedures writing system of an organization.

**Who should attend**

Key operating managers, safety and health professionals, quality or environmental management system managers, and supervisors of operations where hazards exist in the workplace

**Course highlights**

- Developing Risk Criteria
- Identifying Critical Tasks
- Identifying Steps in Critical Tasks
- Identifying Loss Exposures in Critical Tasks
- Conducting an Improvement Check in Critical Tasks
- Developing Risk Controls for Critical Tasks
- Writing Critical Task Procedures
- Putting Critical Tasks to Work & Reviewing
- Updating Critical Task Procedures

Price : KRW 600,000 + VAT 10%

**7008 HAZOP Leader  
2 DAYS**

The aim of the course is to give delegates the knowledge and experience to enable them to lead HAZOP studies effectively. The course combines formal presentation with practical sessions in small groups. On completion of the course the delegates will be able to plan, lead and document HAZOP studies in their own organizations.

**Who should attend**

Key operating managers, safety and health professionals, process system managers, and supervisors of operations where hazards exist in the workplace

**Course highlights**

- Introduction and review of the background to HAZOP
- HAZOP Methodology
- Evaluation of Risk
- Preparation for and Controlling HAZOP Studies
- Writing Recommendations
- HAZOP Reporting and Follow-up
- Preparation and Planning for a HAZOP
- HAZOP Team members, Role & Responsibility
- HAZOP Workshop
- SIL Classification & LOPA with HAZOP

Price : KRW 400,000 + VAT 10%

**For more information**

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## 7010 Coaching Program for Safety (CPS) 3 DAYS

CPS(Coaching Program for Safety) was developed as a powerful communication tool to give impetus to the continuing objective of achieving a workplace without harm for leaders and safety leaders.

CPS is designed to assist safety leaders to create more safe workplace in which PBS(People Based Safety) is promoted and personal safety acts and safety leadership challenged.

The principal focus of this training is people engagement in behavior safety for managers & employees

### Who should attend

All managers /supervisors/engineers who have their resources at their business, safety /health professionals, operation/maintenance/quality/environmental managers/supervisors /engineers who were working at the shop-floor.

### Course highlights

- Just Care without Harm through Virtues Card
- Smile & 9 contact for happy communication
- Understanding Safety Coaching
- Understanding the gaps of Coaching/Mentoring/ Consulting/ Counseling
- Safety Coaching Skills
- Safety Coaching Communication Modeling
- Leadership for safety coaching
- People understanding through assessment
- 11 core elements for safety coaching
- Safety Coaching Checklist after observation
- Safety Coaching with feedback
- Safety Coaching Practices

Price : KRW 600,000 + VAT 10%

## 7011 Hand Safety 2 DAYS

Hand Safety program was developed to prevent any injury & illness related hand at the shop-floor. This program integrating a common safety & health program for employees & contractors at the shop-floor.

Hand Safety is driving personal safety and interpersonal safety program throughout the organization through a variety of methods.

The principal focus of this training is people engagement lead by the shop-floor employees with safety is No.1 priority for continuous improvement.

### Who should attend

Safety/health managers & professionals, operation/maintenance managers/supervisors, Any managers/leaders who were control plant or team.

### Course highlights

- Overall Hand Safety Program
- Line Of Fire (LOF)
- TRA (Task Risk Assessment)
- JCC (Job Cycle Check)
- PMI (Potential Major Incident) Investigation
- DNT(Do Not Touch) Program
- TRA for hand tools
- Hand Safety 10 Rules
- Hand Safety Metrics
- Hand Safety Campaign & Contest

Price : KRW 400,000+ VAT 10%

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#### For more information

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## 7016 RISK Model (R-Model) 2 DAYS

In a successful business strategy to prevent accidents and losses, risk isn't so much managed as it is optimized. This requires an integrated approach to minimizing threats and maximizing opportunities after identifying practical risk influences.

To make the best out of what the organizations have as they deal with occasionally messy realities. To achieve this end, organizations need the Risk Optimization Process,

The objective of the course is to give course attendees the knowledge and methods to enable them to effectively manage Risks. To achieve the objective, the course is composed with explanations and practical exercises on each session for structuring and managing a risk model.

### Who should attend

Senior managers, Team Leaders, Safety Manager/Staff, Safety Consultants/Safety Planners, Supervisor.

### Course highlights

- Concepts and Introduction to Operation Risks
- Meaning of Optimal Risk
- Relationship between Organization's experiences and Risk
- Risk Management through Organizational Culture
- Organization's system impacts on Risk
- Risk Influence by Internal/External Environments
- How to manage Risk Model on a continuous way

Price : KRW 400,000+ VAT 10%

## 7018 FELT Leadership 2 DAYS

FELT Leadership as a demonstration of active commitment to safety so that people in the organization correctly perceive leadership's sincere concern for the safety and well being of all. Leadership that demonstrates integrity.

FELT Leadership is easily observable and clearly demonstrate leader's belief in safety to make a positive impression on employees. Through the demonstration of a personal commitment, must pervade the organization to affect all levels of employees involving all level of employees.

### Who should attend

CEO, Site/Plant Manager, Operation Manger, SHE Manager, Maintenance Manager, Functional Manager, Middle Class Supervisors, Safety/Health Leaders

### Course highlights

- Overall introduction for FELT leadership
- Ten Principles of FELT leadership
- People Engagement Management
- Make a FELT Leader 1 - Adaptive Leadership
- Make a FELT Leader 2 - Behaviors & Mindsets
- Make a FELT Leader 3 - Ownership & Accountability
- Make a FELT Leader 4 - Fear
- Make a FELT Leader 5 - Trust
- Make a FELT Leader 6 - Mindfulness
- Make a FELT Leader 7 - Feedback
- Attribute for visible leadership
- Safety Coaching for leaders
- Leader's Standard Work
- FELT leadership self-assessment
- Best Practice for FELT leadership

Price : KRW 400,000 + VAT 10%

#### For more information

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www.dnv.co.kr/services/training/

## 7019 IEC 61511 Process Functional Safety Engineer(PFSE) Qualification 4.5 DAYS

This course is designed to train a matter expert who understands relevant codes and practices for functional safety in oil&gas, refinery/petrochemical, and offshore industry, interprets and applies requirements throughout Safety Instrumented System (SIS) lifecycle. The main goal of functional safety is to ensure the overall safety of a system or piece of equipment by designing and operating a highly-reliable SIS. Safety Integrity Level (SIL) is a reliability indicator required for Safety Instrumented Function (SIF) and the required SIL value depends on the level of risk to be protected by the SIF. The course introduces IEC 61511/ISA 84.01 and best practices for management of the integrity of the SIS. It also provides theoretical background and subsequent exercises on how to assign the SIL, especially focusing on Layer Of Protection Analysis (LOPA), a semi-quantitative evaluation technique to assess process risk by analyzing process safe guards, and verify proposed design meets the SIL requirement using reliability prediction tools

### Who should attend

Technical Safety/HSE Staff, Control & Instrumentation (C&I) / Electrical / Mechanical / Process / Production Engineer, etc.

### Course highlights

- Functional Safety and IEC 61508/61511/ISA 84.01
- SIS (Safety Instrumented System) and SIL (Safety Integrity Level)
- SIL assignment and LOPA (Layer of Protection Analysis)
- Probabilistic SIL verification
- Safety lifecycle and Safety Requirements Specification (SRS), Safety Analysis Report (SAR)
- Functional Safety Assessment (FSA)
- Failure Modes, Effects and Diagnostic Analysis (FMEDA)

Price : [KRW 800,000(4days) + KRW 400,000(Qualification Exam)] + VAT 10%

## 7020 Plant Reliability Engineering 2 DAYS

Plant RAM (Reliability, Availability and Maintainability) study provides a quantitative assessment to anticipate reliability, availability and maintainability performance for the facility when in-service, and rank those systems and equipment that contribute most significantly to plant downtime and unavailability. This course is designed to share DNV GL's practices and solutions on how to assess asset performance and optimize maintenance strategy in the process industry. It provides participants with valuable and insightful knowledge, along with practical case studies. After a basic introduction to fundamental reliability theory and hand-on data analysis techniques, participants see how reliability engineering is practically applied and used to improve asset performance and optimize maintenance. DNV GL software (MAROS and TARO) for performance forecasting will be also introduced.

### Who should attend

Process/Production Engineer, Electrical / Mechanical Engineer, Control & Instrumentation (C&I) Engineer, etc.

### Course highlights

- ISO 20815/14224
- Failure mode, effects and criticality analysis (FMECA)
- Failure and Reliability Data
- Equipment Reliability Models
- System Reliability
- Reliability Block Diagram (RBD)
- Performance Forecasting of Plant Operation using MAROS & TARO

Price : KRW 400,000 + VAT 10%

#### For more information

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## **7021 Quantitative Risk Assessment(QRA)**

### **3 DAYS**

Upon completion of this course the participants will understand the each part of QRA steps and process and apply their knowledge and learning practice to their actual work. Ultimately contribute to analyze and reduce their risk concerned.

#### **Who should attend**

Process Risk Assessment team/PSM team/Investigation team leaders, site safety managers, production managers, safety management coordinators, and safety professionals responsible for incident investigation and risk management.

#### **Course highlights**

- Introduction & Background of Risk Assessment
- Overview of major accidents
- Introduction to QRA
- Hazard Identification (HAZID)
- Frequency Analysis (LEAK Program)
- Consequence Modelling (discharge-dispersion-effect) (PHAST Program)
- Risk Calculation & Presentation (PHAST RISK & SAFETI OFFSHORE)
- Risk Acceptability & Mitigation

Price : KRW 600,000 + VAT 10%

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#### **For more information**

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## 5100 Intercultural Communication Skills 2 DAYS

This course gives an insight into cross-cultural communication skills and provides techniques for improving and consolidating working relationships across cultures

### Objective

Upon completion participants will :

- Better understand their own culture in context with others Better understand value systems of other cultures and how they affect the working environment
- Select appropriate cultural criteria in order to measure cultural gaps between their own business culture and their counterpart's
- Predict and diagnose a potentially hazardous cross-cultural situation and apply corrective measures to avoid "culture clash"
- Communicate in a way that makes cultural "sense" to the culture of their overseas counterpart, thus enhancing co-operation and a common understanding of each other's work goals and visions
- Apply appropriate strategies in order to more efficiently manage relationships with colleagues/clients from other cultures

### Target Group

- Owner's superintendents, Shipyard's engineers who contact foreign ship owners and Class surveyors
- Shipyard's managers
- Expatriates who are dispatched in Korea
- Employees who have frequent contact with foreign customers/co-workers

## 5101 Effective Communication Skills 2 DAYS

This course will help improve communication skills for surveyors and create added value to what the surveyors offer to their customers

### Objective

Upon completion participants will:

- Know how to be more assertive without being aggressive Be able to communicate in a way which is clear and leaves no room for misinterpretation
- Know how to use a range of communication techniques to influence customer perception of the surveyors
- Know how to make use of communication techniques that apply positive incentive and pressure on others
- Learn how to get vessel personnel involved in solving technical problems rather than simply "policing" them and "directing" them on how to fix NCs
- Learn basic negotiation principles
- Understand the basic psychology of negotiation
- Understand how communication style and behavioural style differs from culture to culture

### Target Group

- Suitable and recommended for everyone who wants to further improve his/her communication skills, especially at work place
- For those who would like to learn more effective communication skill while avoiding misunderstanding that may come from a 'communication barrier'

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#### For more information

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## 5102 The Art of Presentation 2 DAYS

The course will help you improve your presentation techniques so that your messages are clear and concise while having a strong impact on your audience. It will also help reduce aversion towards public speaking

### Objective

Upon completion participants will be able to:

- Plan a professional presentation in a short period of time Adjust the content strategically to cater to the needs of different audiences
- Add variation to the presentation Improve the style of presentation techniques based on feedback from the audience
- Prior to the course a 5 minute presentation needs to be prepared. More information about this will be distributed by Global Training Support

### Target Group

- People at any level who would like to learn how to deliver a quality presentation
- Presenters who are looking for useful tips on improving general presentation skills and methods
- Beneficial course for 'presenters to be'

## 5103 Train the Trainer 3 DAYS

This course allows you to redesign and practice delivering any workshop, seminar, course or training package using techniques, tools and a set of principles in order for learning to stick

### Objective

Upon completion participants will:

- Know the difference between learning and training
- Know how to meet the different learning styles of their participants
- Know methods of evaluating training
- Be able to design and deliver training that helps their participants learn faster, retain more and transfer new knowledge and skills to the workplace
- Be able to design and deliver enjoyable training experiences
- Have an extended toolbox of training methods, templates and a set of pedagogical principles in order for learning to stick

### Target Group

- Lecturers and group leaders who are hoping to improve their training skills
- Surveyors, engineers and admin staff who are preparing to deliver a course in the future
- For people who would like to develop more effective training techniques and methods
- Beneficial course for 'trainers to be'

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[www.dnv.co.kr/services/training/](http://www.dnv.co.kr/services/training/)

# Academy, Korea

## Registration Form

To register for our training courses, complete this form and send back to us at [Academy.Korea@dnvgl.com](mailto:Academy.Korea@dnvgl.com)  
Please use separate copy for each course.

Course Code	
Course Title	
Course Date	

- Particulars of Participant -

Participant's Name	Department	Designation	Email	Tel (Office & Mobile)
1.				
2.				
3.				
4.				
5.				

Please attach separate sheet, if you have more than 5 participants

\* Company Name in Full : \_\_\_\_\_

\* Mailing/Invoice Address :  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

\* Contact Person for invoice : \_\_\_\_\_

\* Invoice Email(Smartbill) : \_\_\_\_\_

Academy Korea

Busan Office : 7<sup>th</sup> Floor, Haeundae I-Park C1 Unit, 38, Marine City 2-ro, Haeundae-Gu, Busan(612-824)

Contact Person : Choi, Eun Hye (Tel : 051-610-7733, [Academy.Korea@dnvgl.com](mailto:Academy.Korea@dnvgl.com))

### \* 참가신청

- 각 과정의 교육일로부터 2주 전까지 교육 신청서를 작성하시어 이메일 (**Academy.Korea@dnvgl.com**)로 보내주십시오.  
(교육 신청서를 먼저 접수하시면, 교육 개강 확정 후 교육비 납입 방법과 상세 교육장 위치 등을 별도 공지해 드립니다.)

- 본 교육은 비환급 과정입니다. (교육 마지막 날 전자 세금계산서 발급, 카드결제 불가)

- 본 과정 이수자에게는 해당 수료증이 발급됩니다.

- **Cancellation/Replacement Policy(교육 취소 및 변경 약관) : 다음 페이지 참조**

**\* Cancellation/Replacement Policy (교육 취소 및 변경)**

If notice of participant's cancellation is given in writing :

- More than 5 working days before course commencement - No Charge
- 5 working days or less before course commencement - Full amount will be charged unless a replacement is nominated
- If a participant fails to show up for the course : Full amount will be charged

(교육신청 후, 부득이한 사정으로 교육에 참석할 수 없거나 참석자 변경을 원하시는 분은, 교육 시작 **“5영업일”** 전까지 이메일(Academy.Korea@dnvgl.com) 로 교육 담당자에게 취소 요청을 해야 합니다. 만약 대체 참석자를 지명하지 않고, 5영업일 이내에 취소하지 않는 경우 참석여부와 상관없이 교육비를 청구하며, 비용을 입금해야 합니다. 예외적으로, DNV GL 내부 사정에 의해 교육 개설이 취소되거나, 교육일이 변경되어 발생하는 교육 취소에 한해서는 취소 비용을 청구하지 않습니다)



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