

KEMENTERIAN PERHUBUNGAN REPUBLIK INDONESIA
DIREKTORAT JENDERAL PERHUBUNGAN LAUT



MINISTRY OF TRANSPORTATION OF THE REPUBLIC OF INDONESIA
DIRECTORATE GENERAL OF SEA TRANSPORTATION

SERTIFIKAT KETERAMPILAN
CERTIFICATE OF PROFICIENCY

Nomor Seri / Serial No.

CP3955793

Dengan ini dinyatakan bahwa
This is to certify that

Nama
Name

:: **ANDI HARDIANSYAH**

Tempat dan tanggal lahir :
Place and date of birth

JAKARTA , 20 June 1992

telah menyelesaikan pelatihan dan lulus evaluasi :
has completed approved training and passed the assessment of

BASIC TRAINING FOR LIQUEFIED GAS TANKER CARGO OPERATIONS Revalidation

yang dilaksanakan oleh : **STIP Jakarta**
which has held by

di : **Jakarta**

at : **23 June 2015 to 23 June 2015**

Sesuai ketentuan STCW 1978 beserta dengan amandemennya, Peraturan : **Chapter V, Section A-V/1-2-1 STCW 2010**
in accordance with the provisions of STCW 1978 as amended, Regulation **Chapter V, Section A-V/1-2-1 STCW 2010**
yang telah mendapat pengesahan dari Direktorat Jenderal Perhubungan Laut selaku Administrasi.
which has been approved by the Directorate General of Sea Transportation as Administration.

Jakarta , 16 June 2020

An. Direktur Jenderal Perhubungan Laut
D.G. Director General of Sea Transportation

Ketua/Direktur/Kepala
Principal/Director/Head

Tandatangan Pemilik
Signature of the Holder



AMIRUDDIN, MM



Sertifikat ini berlaku untuk 5 (lima) tahun sejak tanggal diterbitkan
This Certificate is valid for 5 (five) years commenced from the date of issuance

BASIC TRAINING FOR LIQUEFIED GAS TANKER CARGO OPERATIONS

Subject Area

Based on Reg. V/1-2 and STCW 2010 Code Section A-V/1-2-1

1. Contribute to the Safe Operation of a Liquefied Gas Tanker

- 1.1 Basic knowledge of liquefied gas tankers
 - 1.1.1 Types of liquefied gas tankers
 - 1.1.2 General arrangement and construction
- 1.2 Basic knowledge of cargo operation
 - 1.2.1 Piping systems and valves
 - 1.2.2 Cargo handling equipment
 - 1.2.3 Loading, unloading and care in transit
 - 1.2.4 Emergency shutdown (ESD) system
 - 1.2.5 Tank cleaning, purging, gas-freeing and inerting
- 1.3 Basic knowledge of the physical properties of liquefied gases
 - 1.3.1 Properties and characteristics
 - 1.3.2 Pressure and temperature, including vapour pressure/temperature relationship
 - 1.3.3 Types of electrostatic charge generation
 - 1.3.4 Chemical symbols
- 1.4 Knowledge and understanding of tanker safety culture and safety management

2. Take Precaution to Prevent Hazard

- 2.1 Basic knowledge of the hazards associated with tanker operation
 - 2.1.1 Health hazard
 - 2.1.2 Environmental hazards
 - 2.1.3 Reactivity hazards
 - 2.1.4 Corrosion hazards
 - 2.1.5 Explosion and flammability hazards
 - 2.1.6 Sources of ignition
 - 2.1.7 Electrostatic hazards
 - 2.1.8 Toxicity hazards
 - 2.1.9 Vapour leaks and clouds
 - 2.1.10 Extremely low temperatures
 - 2.1.11 Pressure hazards
- 2.2 Basic knowledge of hazards controls
 - 2.2.1 Inerting, drying and monitoring techniques
 - 2.2.2 Anti-static measures
 - 2.2.3 Ventilation
 - 2.2.4 Segregation

- 2.2.5 Cargo inhibition
- 2.2.6 Importance of cargo compatibility
- 2.2.7 Atmospheric control
- 2.2.8 Gas testing

2.3 Understanding of information on a Material Safety Data Sheet (MSDS)

3. Apply Occupation health and Safety Precautions and measures

- 3.1 Function and proper use of gas-measuring instruments and similar equipment
- 3.2 Proper use of safety equipment and protective devices
- 3.3 Basic knowledge of safe working practices and procedures in accordance with legislation and industry guidelines and personal shipboard safety relevant to liquefied gas tankers
- 3.4 Basic knowledge of first aid with reference to Material Safety Data Sheet (MSDS)

4. Carry out Fire-Fighting Operation

- 4.1 Tanker fire organization and action to be taken
- 4.2 Special hazards associated with cargo handling and transportation of liquefied gases in bulk
- 4.3 Fire-fighting agents used to extinguish gas fires
- 4.4 Fixed fire-fighting foam system operation
- 4.5 Portable fire-fighting foam operations
- 4.6 Fixed dry chemical system operations
- 4.7 Basic knowledge of spill containment in relation to fire-fighting operations

5. Respond to Emergencies

- 5.1 Basic knowledge of emergency procedures

6. Take Precaution to Prevent pollution of the environment from the release of Liquefied Gases

- 6.1 Basic knowledge of the effects of pollution on human and marine life
- 6.2 Basic knowledge of shipboard procedures to prevent pollution
- 6.3 Basic knowledge of measures to be taken in the event of spillage

7. Assessment and Evaluation