

KEMENTERIAN PERHUBUNGAN REPUBLIK INDONESIA DIREKTORAT JENDERAL PERHUBUNGAN LAUT



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

> Nomor Sertifikat / Certificate No. 6201021747404923

SERTIFIKAT KETERAMPILAN

CERTIFICATE OF PROFICIENCY

Nomor Seri / Serial No.

CP6138130

Dengan ini dinyatakan bahwa

This is to certify that

Nama

"LUDI TITISIANO SUDIRWAN

Tempat dan tanggal lahir : JAKARTA , 09 August 1980

Place and date of birth

telah menyelesaikan pelatihan dan lulus evaluasi :

has completed approved training and passed the assessment of

ADVANCED TRAINING FOR CHEMICAL TANKER CARGO OPERATIONS Revalidation

yang dilaksanakan oleh PT. ETSI HUTAMA MARITIM (HUMPUSS TRILOGI MTC)

Jakarta, 21 November 2023

Direktur Jenderal Perhubungan Laut yeoor General of Sea Transportation

which has held by

at :11 October 2018 to 25 September 2018

Sesuai ketentuan STCW 1978 beserta dengan amandemennya, Peraturan Chapter V, Section A-V/1-1-3 STCW 2010 Chapter V, Section A-V/1-1-3 STCW 2010 in accordance with the provisions of STCW 1978 as amanded, Regulation yang telah mendapat pengesahan dari Direktorat Jenderal Perhubungan Laut selaku Administrasi. which has been approved by the Directorate General of Sea Transportation as Administration.

Tandatangan Pemilik Signature of the Holder



REKTORAT JENDERAL ERHUBUNGAN LAUT YUBUNGA

SUPPLIERTORAT KEPELAUTAN

Capt. MALTUS J. KAPISTRANO, S.SiT., M.Si.

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

ADVANCED TRAINING FOR CHEMICAL TANKER CARGO OPERATIONS Subject Area Based on Reg. V/1-1 STCW 2010 Code SectionA-V/1-1.3

1. Ability to safely perform and monitor all cargo operations

- 1.1 Knowledgeofchemicaltankerdesigns, systems, and equipment
- 1.2 Know ledge of pump theory and characteristics ,including types of cargo pumps and the irsafeoperation
- 1.3 Proficiencyin tankersafety culture and imple mentation of safety management system
- 1.4 Know ledge and under standing of monitoring and safety systems, including theemergencyshutdown system
- 1.5 Abilitytoperformcargo measurementsand calculations
- 1.6 Knowledgeoftheeffectofbulkliquidcargoesontrim andstability andstructural integrity
- 1.7 Know ledgeand under standing of chemical cargo-relate doperations
- 1.8 Development and application of cargo related operation plans, procedures and checklists
- 1.9 Abilitytocalibrateanduse monitoring and gas detection systems, instrumentsand equipment
- 1.10 Abilityto manage and supervise personnel with cargo relatedresponsibilities

2. Familiarity withphysical and chemical properties of chemical cargoes

- 2.1 Knowledgeandunderstandingofthe chemicalandthephysicalpropertiesofnoxiousliquid substances
- 2.2 Understanding the information containedina Material Safety Data Sheet (MSDS)

3. Take precautions to prevent hazards

- 3.1 Know ledge and unders tanding of the hazards and controlmeasuresassociatedwithchemical tankercargooperations
- 3.2 Knowledgeandunderstandingofdangersofnon-compliance withrelevantrules/regulations

4. Apply occupational healthand safety precautions

4.1 Know ledge and understanding of safe working practices, including riskassess mentand personal ship board safety relevant to chemical tankers

5. Respondto emergencies

- 5.1 Know ledge and unders tanding of chemical tanker emergency procedures
- 5.2 Actionstobetakenfollowingcollision,grounding,or spillage
- 5.3 Knowledgeofmedicalfirstaidproceduresonboard chemicaltankers, with reference to the Medical First Aid Guidefor Usein Accidents involving Dangerous Goods (MFAG)

6. Take precautionsto prevent pollutionofthe environment

6.1 Understandingofprocedures topreventpollutionoftheatmosphereandthe environment

7. Monitorand control compliance withlegislative requirements

- 7.1 Know ledge and understanding of relevant provision softheInternationalConventionfor thePreventionofPollution fromShips(MARPOL)andotherrelevantIMO instruments,industryguidelinesandport regulationsascommonly applied
- 7.2 ProficiencyintheuseofthelBCCodeandrelated documents

8. Assessment and Evaluation