

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.

Nomor Sertifikat/ Certificate No.

CP 0937834

6201021747390115

Dengan ini dinyatakan bahwa

This is to certify that

Nama

Name

:: **LUDI TITISIANO SUDIRWAN**

Tempat dan tanggal lahir :

Place and date of birth

JAKARTA, 09 August 1980

telah menyelesaikan pelatihan dan lulus evaluasi :

has completed approved training and passed the assessment of

BASIC TRAINING FOR OIL AND CHEMICAL TANKER CARGO OPERATIONS

yang dilaksanakan oleh :

which has held by

STIP Jakarta

di : **JAKARTA**

at :

23 September 2015 to 23 September 2015

Sesuai ketentuan STCW 1978 beserta dengan amandemennya, Peraturan :

in accordance with the provisions of STCW 1978 as amended, Regulation

Chapter V, Section A-V/1-1-1 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.

Tandatangan Pemilik
Signature of the Holder



JAKARTA, 28 September 2015

An. Direktur Jenderal Perhubungan Laut

For Director General of Sea Transportation

Ketua/Direktur/Kepala

Principal/Director/Head

Capt. Arifin Soenardjo, M.Hum.

BASIC TRAINING FOR OIL AND CHEMICAL TANKER CARGO OPERATIONS PROGRAM**Subject Area****Based on STCW 1978 Amendment 2010 Reg. V/1-1, Code Section A-V/1-1-1 and IMO Model Course 1.01**

1. SAFE CARGO OPERATION OF OIL AND CHEMICAL TANKER
 - 1.1. Basic of Tanker
 - 1.2. Cargo Operation
 - 1.3. The physical properties of Oil and Chemical
 - 1.4. Tanker safety culture and safety management
2. PRECAUTION TO PREVENT HAZARD
 - 2.1. Hazard association with Tanker Operation
 - 2.2. Hazard Control
3. HEALTH AND SAFETY PRECAUTIONS AND MEASURES
 - 3.1. Function and proper use gas-measuring instruments
 - 3.2. Proper use of safety equipment and protective devices
 - 3.3. Safe working practices and procedures
 - 3.4. First aid with reference to MSDS
4. FIRE-FIGHTING OPERATION
 - 4.1. Tanker fire organization and action to be taken
 - 4.2. Fire hazards associated with cargo handling and transportation of hazardous and noxious liquids in bulk
 - 4.3. Fire-fighting agents used to extinguish gas fires
 - 4.4. Fixed and portable fire-fighting foam system operations
 - 4.5. Fixed and portable dry chemical system operations
5. RESPOND TO EMERGENCY
Emergency Procedures
6. TAKE PRECAUTION TO PREVENT POLLUTION OF THE ENVIRONMENT FROM THE RELEASE OF OIL OR CHEMICAL
 - 6.1. The effects of oil and chemical pollution on human and marine life
 - 6.2. Shipboard procedures to prevent pollution
 - 6.3. Measures to be taken in the event of spillage
7. ASSESSMENT AND EVALUATION