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.*

CP 1324826

Nomor Sertifikat/ *Certificate No.*
6201291711280116

Dengan ini dinyatakan bahwa
This is to certify that

Nama
Name

:: **JOSUA TARIPAR ROBEL SIHOTANG**

Tempat dan tanggal lahir : BELAWAN, 19 July 1992
Place and date of birth

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

OPERATIONAL USE OF ECDIS TRAINING PROGRAMME - Revalidation

yang dilaksanakan oleh : STIP Jakarta
which has held by

di : JAKARTA
at : 15 July 2013 to 19 July 2013

Sesuai ketentuan STCW 1978 beserta dengan amandemennya, Peraturan Chapter II Section A-II/1, A-II/2 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.

JAKARTA, 21 March 2016

An. Direktur Jenderal Perhubungan Laut
For Director General of Sea Transportation
Ketua/Direktur/Kepala
Principal/Director/Head

Tandatangan Pemilik
Signature of the Holder

STIP JAKARTA

PRANYOTO, S.Pi. MAP

184/29

ELECTRONICS CHART DISPLAY AND INFORMATION SYSTEM (ECDIS)
Subject Area
Based on STCW 1978 as amended
Chapter II section A-II/1, A-II/2 and IMO Model Course 1.27

I. **Elements of ECDIS**
- I.1. Course introduction & familiarization plan
- I.2. Purpose of ECDIS
- I.3. Value to navigation
- I.4. Correct & incorrect use
- I.5. Work station start, stop & layout
- I.6. Vessel position
- I.7. Position source
- I.8. Basic navigation
- I.9. Heading & drift vectors
  - Ex.1. Simulator exercise – open sea
    (basic integrated navigation)
- I.10. Understanding chart data
- I.11. Chart quality & accuracy
- I.12. Chart Organization

II. **Watchkeeping with ECDIS**
- II.1. Sensors
- II.2. Ports & data feeds
- II.3. Chart selection
- II.4. Chart information
- II.5. Changing the settings
- II.6. Chart scaling
- II.7. Information layers
  - Ex.2 Simulator Exercise – coastal waters
    (chart display settings)
- II.8. System & position alarms
- II.9. Depth & contour alarms

III. **ECDIS Route Planning and Monitoring**
- III.1. Vessel maneuvering characteristics
- III.2. Route planning by table
- III.3. Route planning by chart
- III.4. Track limits
- III.5. Checking plan for safety
  - Ex.3. Simulator exercise – coastal & restricted waters
    (navigation alarms & route scheduling)
- III.6. Additional Navigational Information
- III.7. Route Schedule
- III.8. User charts in route planning

IV. **ECDIS Targets, Charts & System**
- IV.1. ARPA / Radar overlay
- IV.2. AIS functions
- IV.3. Procuring & installing chart data
- IV.4. Installing chart corrections
  - Ex.4. Simulator exercise – waters
    (advanced integrated navigation with ECDIS)
- IV.5. System reset & backup
- IV.6. Archiving ECDIS data and data logging

V. **ECDIS Responsibility & Assessment**
- V.1. Responsibility
- V.2. Effective navigation with ECDIS
  - Ev.1. Written evaluation
  - Ev.2. Simulator exercise – coastal & restricted waters
    (underway ECDIS navigation assessment)