



## SERTIFIKAT KETERAMPILAN CERTIFICATE OF PROFICIENCY

Nomor Seri / Serial No.

Nomor Sertifikat / Certificate No.

6202079982280716

CP 1235059

Dengan ini dinyatakan bahwa

This is to certify that

Nama

**ALVI WAHYU ADITA** 

Name

Tempat dan tanggal lahir : PEKALONGAN, 18 March 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

yang dilaksanakan oleh: PERTAMINA MARITIME TRAINING CENTER which has held by

di: JAKARTA

at: 25 January 2016 to 29 January 2016

Sesual 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.

Tandatangan Pemilik Signature of the Holder



34-16-002-0028

KARTA, 29 January 2016

**Direktur Jenderal Perhubungan Laut** rector General of Sea Transportation

> ua/Direktur/Kepala Incipal/Director/Head

Capt. SUHENDAR WIJAYA, MM

## OPERATIONAL USE OF ELECTRONIC CHART DISPLAY AND INFORMATION SYSTEMS Subject Area

## Based on STCW 1978 as Amended Chapter II section A-II/1 and IMO Model Course 1.27

- 1. Introduction of Electronic Chart Display and Information System (ECDIS)
- 2. Legal Aspects & Requirements
- 3. Principle types of Electronic Chart
- 4. ECDIS Data
- 5. Presentation of ECDIS Data
- 6. Sensors system
- 7 Basic Navigational Functions and Settings
- 8. Simulator Exercise 1:
  - 8.1. Familiarization
  - 8.2. ECDIS Data
  - 8.3. Presentation of ECDIS Data
  - 8.4. Sensors
  - 8.5. Basic Navigational Functions & Settings
- 9. Specific Functions for Route Planning
- 10. Simulator Exercise II:
  - 10.1. Operate All Specific Functions and Obtain All Relevant Information for Route Planning from ECDIS
  - 10.2. Sea Area Selection
  - 10.3. Route Planning Information
  - 10.4. Construction of a Route
  - 10.5. Adjustment of a Planning Route
  - 10.6. Curved Track Planning
  - 10.7. Planning Notes
  - 10.8. Safety Values
  - 10.9. Check for Navigational Safety
  - 10.10. Ultimate Route
- 11. Specific Functions for Route Monito in

- 12. Simulator Exercise III:
  - 12.1. Operate All Specific Functions for Route Monitoring and Obtain All Relevant Information for Navigation and for Ship's Safety
  - 12.2. Monitored Area
  - 12.3. Required Route
  - 12.4. Vector Time
  - 12.5. Check Measurements
  - 12.6. Look ahead Function
  - 12.7. Alarms
  - 12.8. Current and Wind
- 13. Updating
- 14. Display & Function of Other Navigational Information
- 15. Errors in Displayed Data
- 16. Errors of Interpretation
- 17. Status Indications, Indicators and Alarms
- 18. Documentation
- 19. Integrity Monitoring
- 20. Back up System

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- 21. Risk of Over Reliance on ECDIS
- 22. Simulator Exercise IV:
  - 22.1. Production and Distribution of Updates, Manual, Semi-Automatic and Automatic Updating, Performing Updates on Board Updating and Safe Navigation
  - 22.2. Radar Superimposition, Automatic Track-Keeping, use of Transponders, SAR
  - 22.3. Potential Errors in the ECDIS Display, in the Display of Own Ship's Position, Correctness of Displayed Data
  - 22.4. Potential Errors of Interpretation and Take Proper Action to Avoid These Errors
  - 22.5. Definition & Meaning of Indicators & Alarms, Nautical Indications and Sensor Alarms, Data & Chart Alarms, Automatic Voyage Recording, Reconstruction of Past Track

On-Line Test, Manual & Visual Tests, Verification of Proper Functioning akeover by the Back-Up System

& Final Assessment