



**SERTIFIKAT KETERAMPILAN**  
**CERTIFICATE OF PROFICIENCY**

Nomor Seri / Serial No.

**CP4529650**

Dengan ini dinyatakan bahwa  
*This is to certify that*

Nama

Name

**:: ILMA LUTFI**

Tempat dan tanggal lahir

Place and date of birth

**: JEPARA , 15 March 1976**

telah menyelesaikan pelatihan dan lulus evaluasi :

*has completed approved training and passed the assessment of.*

**OPERATIONAL USE OF ECDIS TRAINING PROGRAMME**

yang dilaksanakan oleh : BINA SENA MARITIME TRAINING CENTER

*which has held by*

di Jakarta

at : 19 August 2021 to 24 August 2021

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 amended, Regulation Chapter II Section A-II/1, A-II/2 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, 02 September 2021**

Tandatangan Pemilik  
*Signature of the Holder*



BINA SENA MTC

**TRAINING AN** Direktur Jenderal Perhubungan Laut  
**Of** Director General of Sea Transportation  
**Kapala/Direktur/Kepala**  
**Principal/Director/Head**

**FERY PARANG TIRTA, S.Kom.**



Nomor Sertifikat / Certificate No.

**62000017477281121**

## **ELECTRONICS CHART DISPLAY AND INFORMATION SYSTEM (ECDIS)**

### **Subject Area**

**Based on Reg. II/1, II/2, II/3 and STCW 2010 Code Section A-II/1, A-II/2, A-II/3**

- 1. Use of ECDIS to Maintain the Safety of Navigation**
  - 1.1 Knowledge of the capability and limitation of ECDIS Operations**
    - 1.1.1 A thorough understanding of Electronic Navigational Chart (ENC) data, data accuracy options and other chart data formats**
    - 1.1.2 The dangers of over-reliance**
    - 1.1.3 Familiarity with the functions of ECDIS required by performance standards in force**
  - 1.2 Proficiency in operation, interpretation, and analysis of information obtained from ECDIS**
    - 1.2.1 Use of functions that are integrated with other navigation systems in various installations, including proper functioning and adjustment to desired settings**
    - 1.2.2 Safe monitoring and adjustment of information, including own position, sea area display, mode and orientation, chart data displayed, route monitoring, user-created information layers, contacts (when interfaced with AIS and/or radar tracking) and radar overlay functions (when interfaced)**
    - 1.2.3 Confirmation of vessel position by alternative means**
    - 1.2.4 Efficient use of setting to settings to ensure conformance to operational procedures, including alarm parameters for anti-grounding, proximity to contacts and special areas, completeness of chart data and chart update status, and backup arrangements**
    - 1.2.5 Adjustment of setting and values to suit the present conditions**
    - 1.2.6 Situational awareness while using ECDIS including safe water and proximity of hazard, set and drift, chart data and scale selection, suitability of route, contact detection and management, and integrity of sensors**
- 2. Maintain the Safety of Navigation through the use of ECDIS and associated Navigation Systems to assist Command Decision Making**
  - 2.1 Management of operational procedures, system file and data**
    - 2.1.1 Manage procurement, licensing and updating of chart data and system software to conform to established procedures**
    - 2.1.2 System and information updating**
    - 2.1.3 Create and maintain system configuration and backup files**
    - 2.1.4 Create and maintain log files in accordance with established procedures**
    - 2.1.5 Create and maintain route plan files in accordance with established procedures**
    - 2.1.6 Use ECDIS log-book and track history functions for inspection of system functions, alarm setting and user responses**
  - 2.2 Use ECDIS playback functionality for passage review, route planning and review of system functions**
- 3. Assessment and Evaluation**