



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.

CP4285676

Nomor Sertifikat / Certificate No.

6200117433280321

Dengan ini dinyatakan bahwa

This is to certify that

Nama

Name

ZAENAL ARIFIN

Tempat dan tanggal lahir

Place and date of birth

TULIS, BATANG , 19 December 1979

telah menyelesaikan pelatihan dan lulus evaluasi

has completed approved training and passed the assessment of

OPERATIONAL USE OF ECDIS TRAINING PROGRAMME

yang dilaksanakan oleh : PIP Semarang

which has held by

di : Semarang

at : 01 February 2021 to 05 February 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.

Semarang , 24 March 2021

Tandatangan Pemilik

Signature of the Holder



PIP Semarang



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

Dr. Capt. MASHUDI ROFIK, M.Sc



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, licencing 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