



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.

CP5640396

Nomor Sertifikat/ Certificate No.

6201199019030423

Dengan ini dinyatakan bahwa

This is to certify that

Nama

MUH. AWALUDDIN

Name

Tempat dan tanggal lahir

UJUNG PANDANG , 06 February 1990

Place and date of birth

telah menyelesaikan pelatihan dan lulus evaluasi :

has completed approved training and passed the assessment of

RADAR SIMULATOR

yang dilaksanakan oleh **PIP Makassar**

which has held by

di **Makassar**

at **04 April 2023 to 08 April 2023**

Sesuai ketentuan STCW 1978 beserta dengan amandemennya, Peraturan **Section A-II/1.5, A-II/2.2 STCW 2010**

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

Section A-II/1.5, A-II/2.2 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.

Tandatangan Pemilik

Signature of the Holder



PIP Makassar

Makassar, 13 April 2023

An. Direktur Jenderal Perhubungan Laut

O.b. Director General of Sea Transportation

Ketua Direktur/Kepala
Principal Director/Head



Capt. SUKIRNO, M.M.Tr., M.Mar.

RADAR SIMULATOR

Subject Area

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

Use of RADAR to Maintain Safety of Navigation

1. Radar navigation
2. Knowledge of the fundamentals RADAR
3. Ability to operate and to interpret and analyse information obtained from RADAR
 - 2.1. Performance of:
 - 2.1.1 factor affecting performance and accuracy
 - 2.1.2 setting up and maintaining displays
 - 2.1.3 detection of misrepresentation of information, false echoes, sea return, etc., racons and SARTs
 - 2.2. Use of:
 - 2.2.1 Range and bearing; course and speed of other ships; time and distance of crossing, meeting overtaking ships
 - 2.2.2 Identification of critical echoes; detecting course and speed changes of other ships; effect of changes in own ship's course or speed or both
 - 2.2.3 Application of the international regulation for preventing collision at sea, 1972, as amended
 - 2.2.4 Plotting techniques and relative – and true – motion concepts
 - 2.2.5 Parallel indexing
4. Evaluation of navigational information derived from RADAR in order to make and implement command decision for collision avoidance and for directing the safe navigation of the ship
5. Assessment and Evaluation