



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.

CP5711317

Dengan ini dinyatakan bahwa
This is to certify that

Nama

Name

Tempat dan tanggal lahir

Place and date of birth

MUH. AWALUDDIN

UJUNG PANDANG , 06 February 1990

telah menyelesaikan pelatihan dan lulus evaluasi :

has completed approved training and passed the assessment of

ARPA SIMULATOR

yang dilaksanakan oleh **PIP Makassar**

which has held by

di Makassar

at 02 May 2023 to 04 May 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, 11 May 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.



AUTOMATIC RADAR PLOTTING AIDS (ARPA) SIMULATOR TRAINING

Subject Area

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

Use of ARPA to Maintain Safety of Navigation

1. Knowledge of the fundamentals automatic radar plotting aids (ARPA)
2. Principal type of ARPA
3. Ability to operate and to interpret and analyse information obtained from ARPA
 - 3.1 System performance and accuracy, tracking capabilities and limitation, and processing delay
 - 3.2 Use of operation warnings and system test
 - 3.3 Methods of target acquisition and their limitation
 - 3.4 True and relative vectors, graphic representation of target information and danger areas
 - 3.5 Deriving and analysing information, critical echoes, exclusion areas and trial manoeuvres
4. Evaluation of navigational information derived from ARPA in order to make and implement command decision For collision avoidance and for directing the safe navigation of the ship
5. Assessment and Evaluation