



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.

CP5932638

Dengan ini dinyatakan bahwa

This is to certify that

Nama

Name

ZAENAL ARIFIN

Tempat dan tanggal lahir : **TULIS, BATANG , 19 DECEMBER 1979**

Place and date of birth

telah menyelesaikan pelatihan dan lulus evaluasi :

has completed approved training and passed the assessment of

ARPA SIMULATOR Revalidation

yang dilaksanakan oleh : **PIP Semarang**

which has held by

di : **Semarang**

at : **12 September 2014 to 13 September 2014**

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.

Semarang, 25 August 2023

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. TRI CAHYADI, M.H., 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**