

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.

CP4649624

Dengan ini dinyatakan bahwa  
*This is to certify that*

Nama  
*Name*

**HENRY KUDDY PANGRANTE**

Tempat dan tanggal lahir : ABEPURA , 14 July 1997  
*Place and date of birth*

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 : 26 October 2021 to 28 October 2021

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*  
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, 04 November 2021

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