

# Part A

## Course Framework

### ■ Scope

This course aims to meet the mandatory minimum requirements for knowledge, understanding and proficiency in Table A-II/4 as required in the Regulation II/4 of the 1978 STCW Convention, as amended.

### ■ Training Outcomes

Upon completion of this training course, the trainee must be able fulfill the requirements of Table A-II/4 of the STCW Code which provide for competence in their actual duties and responsibilities.

- Steer the ship and also comply with the helm orders in the English Language;
- Keep a proper look-out by sight and hearing;
- Contribute to monitoring and controlling a safe watch; and
- Operate emergency equipment and apply emergency procedures

### ■ Entry Standards

This training course is intended for individuals who shall seek for certification of ratings forming part of a navigational watch

### ■ Course Certificate

On successful completion of the training and course assessment, a Certificate of Completion shall be issued as evidence of fulfilling the mandatory minimum requirements and competences as specified in Regulation II/4 of the STCW Convention.

### ■ Course Intake Limitations

The course intake shall not exceed 24 participants in a class. Practical training should be conducted in laboratory/training site utilizing relevant tools, equipment in conjunction with the man-machine ratio of 2:1

## ■ Staff Requirements

The qualifications of the Instructor, Supervisor, and Assessor should be in accordance with requirements laid down in Section A-I/6 paragraphs 4, 5, 6 or 7 of the STCW Code.

MTIs shall ensure that their qualifications are in accordance with STCW Circular 2014-04, Rules on the Accreditation of Instructors, Supervisors, and Assessors of Approved Training Programs (ATPs) Conducted by the Maritime Training Institutions (MTIs).

## ■ Course Assessment

In determining the achievement of required competence Column 1 of Table A-II/4, the assigned course assessor shall be guided by the criteria for evaluating competence in Column 4, intended learning outcomes stipulated in Detailed Teaching Syllabus and Assessment Manual.

## ■ Training Facilities And Equipment

For the theoretical part of this program, the institution offering this training program shall provide a classroom with multimedia, whiteboard and paraphernalia needed and other facilities for practical demonstration. This does not however prevent MTIs from utilizing additional teaching facilities to support learning.

The following equipment shall be available in the conduct of practical exercises:

1. At least one (1) Bridge Simulator with:
  - .1 mini bridge
  - .2 an Instructor's Station
  - .3 Room
2. SART Dummy
3. EPIRB Dummy
4. Pyrotechnics

*\*MTIs may use better equipment provided that it serves the same purpose*

## ■ Teaching Aids (A)

- Hand-outs
- CBTs
- Video tapes
- Audio Tapes

## ■ IMO references (R)

- R1. : International Maritime Organization (IMO). (2011). *International convention on standards of training, certification and watchkeeping for seafarers (STCW), as amended*
- R2 : International Maritime Organization (IMO). (2003). *Convention on the International Regulations for Preventing Collisions at Sea, 1972 (4<sup>th</sup> ed.)*. London, UK: IMO.
- R3 : International Maritime Organization (IMO). (2011). *MARPOL (5<sup>th</sup> ed.)*. London, UK: IMO.
- R4 : International Maritime Organization. (2002). *IMO standard marine communication phrases. (1<sup>st</sup> ed.)*. London, UK: IMO
- R5 : International Maritime Organization (IMO). (2009). *SOLAS (5<sup>th</sup> ed.)*. London, UK: IMO.
- R6 : International Maritime Organization (IMO). (2010). *Life saving appliances including LSA Code (2<sup>nd</sup> ed.)*. London, UK: IMO.
- R7 : International Maritime Organization (IMO). (2011). *General requirements and performance standards for shipborne radiocommunications and navigational equipment. (6<sup>th</sup> ed.)*. London, UK: IMO.
- R8 : International Maritime Organization (IMO). (2005). *International code of signals. (4<sup>th</sup> ed.)*. London, UK: IMO.
- R9 : International Maritime Organization (IMO). (2009). *Global maritime distress and safety system manual (5<sup>th</sup> ed.)*. London, UK: IMO.
- R10 : International Maritime Organization (1985). *Standard marine navigational vocabulary*. Retrieved from [http://www.ctu.cz/cs/download/zkousky-prukaz/standard-marine-navigational-vocabulary\\_may-1985.pdf](http://www.ctu.cz/cs/download/zkousky-prukaz/standard-marine-navigational-vocabulary_may-1985.pdf)
- R11 : International Maritime Organization (IMO) & International Civil Aviation Organization (ICAO). (2008). *IAMSAR manual: vol. I organization and management. (7<sup>th</sup> ed.)*. London, UK & Montreal, Canada: IMO & ICAO.

- R12 : International Maritime Organization (IMO) & International Civil Aviation Organization (ICAO). (2008). *IAMSAR manual: vol. II mission co-ordination*. (4<sup>th</sup> ed.). London, UK & Montreal, Canada: IMO & ICAO.
- R13 : International Maritime Organization (IMO) & International Civil Aviation Organization (ICAO). (2013). *IAMSAR manual: vol. III mobile facilities*. (9<sup>th</sup> ed.). London, UK & Montreal, Canada: IMO & ICAO.
- P1 : Admiralty Charts & Publication. (2009). *The mariner's handbook* (9th Ed.). UK: United Kingdom Hydrographic Office.
- P2 : Bist, D. S. (2000). *Safety and security at sea. A guide to safer voyages*. (1<sup>st</sup> ed.). Oxford: Butterworth-Heinemann.
- P3 : Bowditch, N. (2002). *The American practical navigator. (2002 bicentennial ed.)*. Bethesda, Maryland: National Imagery and Mapping Agency.
- P4 : Cockcroft, A. N. and Lameijer, J. N. F. (2004). *A guide to collision avoidance rules. Incorporates the 2009 amendments* (7<sup>th</sup> Ed.). Oxford, UK: Butterworth-Heinemann.
- P5 : Cockcroft, A. N. Rev. ed. (2004). *Nicholls's seamanship and nautical knowledge*. (28<sup>th</sup> Ed.). Glasgow, Great Britain: Brown, Son & Ferguson, LTD.
- P6 : International Chamber of Shipping & International Shipping Federation. (2010). *Guidelines on the application of the IMO international safety management (ISM) code*. (4<sup>th</sup> ed.). London, UK: Marisec Publishing.
- P7 : International Chamber of Shipping & International Shipping Federation. (2011). *Guidelines on the IMO STCW convention including the 2010 Manila amendments*. (3rd ed.). London, UK: Marisec Publishing.
- P8 : International Chamber of Shipping. (2007). *Bridge procedures guide*. (4<sup>th</sup> ed.). London, UK: Marisec Publications.
- P9 : Klinkert, J. (1976). *Compass-wise or getting to know your compass*. (1<sup>st</sup> ed.). Glasgow, Great Britain: Brown, Son & Ferguson, LTD.
- P10 : Maritime and Coastguard Agency. (2010). *Code of safe working practices for merchant seamen. Consolidated ed.* 2010. London, UK: TSO.
- P11 : Noel, J.V. Jr. (Ed.). (1989). *Knight's modern seamanship*. (18<sup>th</sup> ed.). Canada: John Wiley and Sons, Inc.
- P12 : Pursey, H. J. (2002). *Merchant ship construction especially written for the merchant navy for merchant seamen*. (7<sup>th</sup> Ed.). Brown, Son & Ferguson, LTD.

**Web references (W):**

- W1. <http://www.marineinsight.com/tech/auxiliary-machinery/general-overview-of-types-of-pumps-on-ship/>
- W2. <http://www.brighthubengineering.com/marine-history/84795-types-of-shipboard-cranes/>
- W3. International Maritime Organization (1985). Standard marine navigational vocabulary. Retrieved from <http://www.rtna.ac.th/article/Standard%20Marine%20Navigational%20Vocabulary.pdf>.
- W4. Surface Preparation. Retrieved from [http://www.osha.gov/SLTC/etools/shipyard/shiprepair/surfaceprep/index\\_sp.html](http://www.osha.gov/SLTC/etools/shipyard/shiprepair/surfaceprep/index_sp.html)
- W5. International. Onboard Maintenance Painting Guide. Retrieved from <http://www.internationalmarine.com/Literature/Onboard%20Maintenance%20Painting%20Guide.pdf>