

50 hours Preparation Course for Coxswain Grade 3 Examination

Part A : Course Framework

- **Aim**

This course aims to provide complementary nautical knowledge to those who has been prepared for the examination of Grade 3 Coxswains Certificate in Marine Department, HKSAR. Alternatively, the course also targets to those candidates who intends to enrich their nautical knowledge for the safe navigation in Hong Kong Waters.

- **Objective**

Those who successfully complete this course should be able to undertake the examination of Grade 3 Coxswains Certificates conducted by the Marine Department, HKSARG and acquire the core knowledge of nautical studies in accordance with the Chapter 7.1 of “Examination Rules for Local Certificates of Competency” issued by the Marine Department.

The candidate also be guided to implement safety awareness as required by “International Regulation for Preventing Collisions at Sea 1972 (COLREGs) and relevant HK Merchant Shipping Ordinances, which include, but are not limited to:

- .1 keeping proper lookout on navigation watch;
- .2 ensuring professional standard of “Officer-in-Charge” of navigation;
- .3 observing the practices of COLREGs;
- .4 acquaint the knowledge of Chart work and seamanship practices ;
- .5 observing marine local knowledge and relevant regulations;
- .6 possessing the knowledge of stability, cargo stowage and ship handling ;
- .7 enhancing emergency response on life-saving at sea with proper distress procedures;
- .8 ensuring that navigation equipment is properly operated, tested, calibrated and maintained, if any

- **Target Candidate**

Any person who intends to take the Grade 3 Coxswain Examination or interests to enhance the knowledge of ship safety and safe navigation in Hong Kong Waters.

- **Entry standards**

No entry standard is required, however, those attending this course with working experience on local vessel or managing the fleet of local vessel is highly recommended.

- **Course intake limitations**

The maximum number of trainees will be limited to 24 in order to maintain the quality of the teaching standard and fulfil the aims and objectives of this course.

- **Instructor**

Mr. H. L. Tong, a B Sc of Maritime Commerce from Cardiff University, who is a holder of the Seagoing Class 1 (Deck) Certificate of Competency and ex-examiner of Foreign-going Certificate of Competency in Marine Department, HKSARG.

- **Course Fee**

HK\$ 6,000 (HK\$ 4,800 may be refunded from MATF after completing the course)

- **Course Venue**

Room 405, 4/F, Gee Tuck Building, 16-20 Bonham Strand East, Sheung Wan, Hong Kong

Part B : Course Outline

- **Subject Area**

1 Introduction

1.1 Course overview

1.2 Objectives of course

2 Local Knowledge, Pilotage and Port Regulations

2.1 The knowledge of sheltered waters in HK Waters

2.2 The knowledge of traffic separation scheme and fairways in HK Waters

2.3 The knowledge of local rules related to port infrastructure

2.4 The knowledge of anti-pollution in HK Waters

2.5 The knowledge of towing operations

2.6 The knowledge of international and local storm signals

2.7 The knowledge of Navigational Warnings & practices of reporting marine incidents

2.8 The knowledge of marine radiocommunications via VHF

3 Ship Stability

3.1 The knowledge of equilibrium states and its effect on ship stability

3.2 The precautions and resultant moment of Free Surface effect

4 Seamanship and Shiphandling

- 4.1 The general theory of ship handling
- 4.2 Knowledge of determining risk of collision and proper use of Radar
- 4.3 Knowledge of procedures to mitigate heavy weather at sea
- 4.4 Knowledge of rescue person overboard
- 4.5 Knowledge of anchoring works
- 4.6 The safe practices and knowledge of towing operation
- 4.7 The hazards of interaction between ships/shore
- 4.8 The preparation and procedures on the approach of a tropical storm
- 4.9 Knowledge of life-saving & firefighting equipment
- 4.10 Knowledge of dangerous goods
- 4.11 The operation in assisting other vessels in distress
- 4.12 Knowledge of mooring operations

5 Chart Work and Pilotage

- 5.1 Knowledge of chart symbols
- 5.2 Knowledge of Compass
- 5.3 Knowledge of voyage planning

6 Collision Regulations, Buoyage & Emergencies

- 6.1 Familiar of COLREG 1972 and its usage
- 6.2 Knowledge of Buoyage system in HK Waters
- 6.3 Knowledge of emergency response in marine incidents
- 6.4 Knowledge of distress/urgency procedures
- 6.5 Knowledge of abandonship procedures
- 6.6 Knowledge of navigational aids

7 Engine Knowledge

- 7.1 Basic pre-departure and pre-starting checks and precautions for typical small craft engines.
- 7.2 Significance of common engine instrument readings, temperature, oil pressure, RPM, and the consequences of any of them indicating readings outside normal limits.
- 7.3 Action to be taken in the event of abnormal engine indications.
- 7.4 Hazards of oil fuel and precautions to be taken in filling tanks and storing and handling fuel. Basics of fuel supply systems and the rectification of common faults.
- 7.5 Safe battery handling and the care and maintenance of batteries.
- 7.6 Typical hydraulic steering systems and the restoration of steering function in the event of a fault.

8 Revision & Mock Examination