

ENG3-11.1.2

**IALA World Wide Academy**

**LEVEL 2 – Technician Training**

**AtoN Service Craft and Buoy Tenders**

**Module 6 (L2.6.1 - 6.2)**

**Edition 2**

**June 2016**

***AISM***Association Internationale de Signalisation Maritime ***IALA***

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DOCUMENT REVISIONS

Revisions to the IALA Document are to be noted in the table prior to the issue of a revised document.

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| --- | --- | --- |
| **Date** | **Page / Section Revised** | **Requirement for Revision** |
| June 2016 | Page 3 | Minor text amendments and update of Teaching Modules |
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FOREWORD

The International Association of Marine Aids to Navigation and Lighthouse Authorities (IALA) recognises that training in all aspects of Aids to Navigation (AtoN) service delivery, from inception through installation and maintenance to replacement or removal at the end of a planned life-cycle, is critical to the consistent provision of that AtoN service.

Taking into account that under the SOLAS Convention, Chapter 5, Regulation 13, paragraph 2; Contracting Governments, mindful of their obligations published by the International Maritime Organisation, undertake to consider the international recommendations and guidelines when establishing aids to navigation, including recommendations on training and qualification of AtoN technicians, IALA has adopted Recommendation E-141 on Standards for Training and Certification of AtoN personnel.

IALA Committees working closely with the IALA World Wide Academy have developed a series of model courses for AtoN personnel having E-141 Level 2 technician functions. This model course on AtoN Service Craft and Buoy Tenders should be read in conjunction with the Training Overview Document IALA WWA.L2.0 which contains standard guidance for the conduct of all Level 2 model courses

This model course is intended to provide national members and other appropriate authorities charged with the provision of AtoN services with specific guidance on the training of AtoN technicians in an introduction to service craft and buoy tenders. Assistance in implementing this and other model courses may be obtained from the IALA World Wide Academy at the following address:

The Dean

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TABLE OF CONTENTS

DOCUMENT REVISIONS 2

FOREWORD 3

TABLE OF CONTENTS 4

1 PART A - COURSE OVERVIEW 5

1.1 Scope 5

1.2 Objective 5

1.3 Course Outline 5

1.4 Table of Teaching Modules 5

1.5 Specific Course Related Teaching Aids 5

1.6 References 6

2 PART B - TEACHING MODULES 6

2.1 Module 1 – Introduction to Service Craft 6

2.2 Module 2 – Sea Experience 6

# PART A - COURSE OVERVIEW

## Scope

This course is intended to provide technicians with the theoretical training necessary to have a satisfactory understanding of the types and function of service craft and tenders used to install, service, maintain or replace marks.

This introductory course is intended to be supported by further training modules on practical aspects of buoy handling, moorings, retrieval, cleaning and deployment. Details of these supporting model courses can be found in the Level 2 Technician training overview document IALA WWA L2.0.

## Objective

Upon successful completion of this course, participants will have acquired sufficient knowledge and skill to recognise the types and functions of service craft and buoy tenders used by their organisations.

## Course Outline

This two part course is intended to cover the knowledge required for a technician to understand the types and function of service craft and buoy tenders used by their and other organisations to install, service, maintain or replace marks. The course comprises a theoretical classroom module and practical time afloat in a service craft or buoy tender designed to consolidate theoretical knowledge. Both modules begin by stating their scope and aims, and then provide a teaching syllabus.

## Table of Teaching Modules

|  |  |  |
| --- | --- | --- |
| **Module Title** | **Time in hours** | **Overview** |
| Introduction to service craft | 2.0 | This module describes the basic functions and types of service craft and buoy tenders |
| Sea experience | 7.0 | This practical module provides a guide to buoy handling equipment fitted in a service craft and describes the roles of crew members; personal protection and equipment health and safety issues afloat |
| Evaluation | 1.0 | Written and practical test conducted on board the vessel (where practicable) |
| **Total Hours:** | **10** | Two day course |

## Specific Course Related Teaching Aids

1. This course involves both classroom instruction and experience afloat. Classrooms should be equipped with blackboards, whiteboards, and overhead projectors to enable presentation of the subject matter.
2. Participants should be supplied with all appropriate safety clothing and life-saving equipment during the practical module.
3. Models or photographs of service craft and or buoy tenders used by AtoN service providers should be considered as valuable teaching aids.

## References

In addition to any specific references required by the Competent Authority, the following material is relevant to this course:

* IALA NAVGUIDE
* “IALA at 50” or other publication showing pictures or schematics of service craft

# PART B - TEACHING MODULES

## Module 1 – Introduction to Service Craft

### Scope

This module describes the basic functions and types of service craft and buoy tenders.

### Learning Objective

To gain a **basic** understanding of the function and types of service craft and buoy tenders.

### Syllabus

Lesson 1 Function of service craft

1. Functions of service craft and buoy tenders
2. Principal equipment fitted to service craft
3. Accurate (dynamic) positioning
4. Health and Safety Issues afloat

Lesson 2 Types of service craft

1. Offshore service craft
2. Rapid Intervention Vessels
3. Inshore/river service craft
4. Multi-purpose vessels
5. Time charter (contracted) vessels

## Module 2 – Sea Experience

### Scope

This practical module provides a guide to buoy handling equipment fitted in a service craft and describes the roles of crew members; personal protection and equipment health and safety issues afloat.

### Learning Objective

To gain a **satisfactory** understanding of the type and function of buoy-handling equipment fitted to service craft or buoy tenders; the role of crew members and health and safety issues specific to the safe operation of service craft.

### Syllabus

Lesson 1 Tour of the vessel

1. Safety on the working deck
2. Cranes and their capacities
3. Windlasses and winches
4. Buoy carrying capacity
5. Use of boats and buoy jumpers
6. Buoy handling slings and equipment
7. Navigation equipment
8. Accurate positioning equipment

**Note: A full safety brief should be given before embarkation**

Lesson 2 Role of the Crew

1. Bridge crew and STCW
2. Engine room crew
3. Seamen and buoy handlers
4. Support crew

Lesson 3 – Safety and Medical Issues

1. Potential dangers and preventative measures
2. Personal Protection Equipment and clothing
3. First Aid procedures on board

Practical Tasks

1. Witness buoy handling operation
2. Assist with buoy handling operation

On-Board Assessments

1. Short written assessment test
2. Oral assessment test on board