IALA MODEL COURSE

L1.5

MARINE AIDS TO NAVIGATION MANAGEMENT TRAINING

LEVEL 1 – MODULE 5 - HISTORIC LIGHTHOUSE PROJECTS

Edition 2
December 2018
Revisions to this IALA document are to be noted in the table prior to the issue of a revised document.

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<th>Date</th>
<th>Details</th>
<th>Approval</th>
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<td>December 2014</td>
<td>1&lt;sup&gt;st&lt;/sup&gt; issue</td>
<td>Council 59</td>
</tr>
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<td>December 2018</td>
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**FOREWORD**

The International Association of Marine Aids to Navigation and Lighthouse Authorities (IALA) recognises that training in all aspects of the management of Marine Aids to Navigation (AtoN) service delivery is critical to the consistent provision of that AtoN service.

Taking into account that under the SOLAS Convention, Chapter V, 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 Marine Aids to Navigation, including recommendations on training and qualification of AtoN managers, IALA has adopted Recommendation R0141 on Standards for Training and Certification of AtoN personnel.

IALA Committees working closely with the IALA World Wide Academy (The Academy) have developed a series of model courses for AtoN personnel having R0141 Level 1 management functions. This model course on historic lighthouse projects should be read in conjunction with IALA Recommendation R0141/1 – Model Course on Level 1 Manager Training, which contains standard guidance for the conduct of all Level 1 model courses.

This model course is intended to be delivered by either The Academy in conjunction with a national member or an Approved Training Organisation. It contains specific guidance on the training of AtoN managers in historic lighthouse projects. Assistance in implementing this and other model courses may be obtained from the IALA World-Wide Academy at the following address:

The Dean  
IALA World Wide Academy  
10 rue des Gaudines  
78100 Saint-Germain-en-Laye  
France

Tel: (+) 33 1 34 51 70 01  
Fax: (+) 33 1 34 51 82 05  
e-mail: academy@iala-aism.org  
Internet: www.iala-aism.org
PART 1- COURSE OVERVIEW

1. SCOPE

This course is intended to provide Marine Aids to Navigation managers and other interested parties with the theoretical training necessary to have a satisfactory understanding of the processes involved in projects concerning historic lighthouses.

2. OBJECTIVE

Upon successful completion of this course, participants will have acquired sufficient knowledge to project manage or oversee projects concerning historic lighthouses.

3. COURSE OUTLINE

This course is intended to cover the knowledge required for an Marine Aids to Navigation manager to understand historic lighthouse projects within their organisations. The complete course comprises 6 teaching modules.

4. TABLE OF TEACHING MODULES

<table>
<thead>
<tr>
<th>Module Title</th>
<th>Time in hours</th>
<th>Overview</th>
</tr>
</thead>
<tbody>
<tr>
<td>Historic Overview</td>
<td>2</td>
<td>This module describes the historic development of lighthouses and their components and the reasons why they should be preserved as national monuments</td>
</tr>
<tr>
<td>National Conservation Plans</td>
<td>2</td>
<td>This module describes the requirement for the production of a national conservation plan and the factors to be considered</td>
</tr>
<tr>
<td>Legal Issues</td>
<td>2</td>
<td>This module describes the legal issues to be considered for the complementary use of an historic lighthouse</td>
</tr>
<tr>
<td>Complementary use of historic lighthouses</td>
<td>2</td>
<td>This module describes the process of deciding which lighthouses to open to the public or other complementary use</td>
</tr>
<tr>
<td>Technical aspects of lighthouse projects</td>
<td>2</td>
<td>This module describes how to manage the consequences of the technical changes required when reconfiguring an historic lighthouse</td>
</tr>
<tr>
<td>Documentation</td>
<td>1</td>
<td>This module describes the records and other documentation required to be generated when managing an historic lighthouse project</td>
</tr>
<tr>
<td>Evaluation</td>
<td>1</td>
<td>Case study evaluation test</td>
</tr>
<tr>
<td><strong>Total Hours:</strong></td>
<td><strong>12</strong></td>
<td>Two day course</td>
</tr>
</tbody>
</table>

5. SPECIFIC COURSE RELATED TEACHING AIDS AND NOTES

This course will be classroom based with presentations delivered using MS PowerPoint®. Although the course is limited to 24 participants, the classroom should be big enough to permit the participants to sit at desks large...
enough to operate a laptop computer with room for printed material to hand. Each desk should be provided with a power socket.

The classroom should be equipped with overhead projectors and screens to enable presentation of the subject matter.

To enable all participants to receive clear guidance from instructors and to raise questions that can be heard throughout the classroom, lapel or fixed lectern microphones should be provided together with a roving microphone for use by participants.

6. **PRE-COURSE READING**

Students should be encouraged to study the IALA Complementary Lighthouse Use Manual [1].

7. **CERTIFICATION**

Participants who pass successfully the test of competency can be presented with an AtoN Level 1 Manager certificate which states that they have completed successfully the Complementary Module on the projects concerning historic lighthouses.

8. **ACRONYMS**

<table>
<thead>
<tr>
<th>Acronym</th>
<th>Full Form</th>
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<tbody>
<tr>
<td>AtoN</td>
<td>Marine Aid(s) to Navigation</td>
</tr>
<tr>
<td>IALA</td>
<td>International Association of Marine Aids to Navigation and Lighthouse Authorities - AISM</td>
</tr>
<tr>
<td>L</td>
<td>Level</td>
</tr>
<tr>
<td>SOLAS</td>
<td>International Convention for the Safety of Life at Sea, 1974 (as amended)</td>
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<tr>
<td>WWA</td>
<td>World Wide Academy</td>
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</table>

9. **REFERENCES**

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


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**PART 2 - TEACHING MODULES**

The following six teaching modules cover all aspects of historic lighthouses.
10. MODULE 1 – HISTORIC OVERVIEW

10.1. SCOPE

This module describes the historic development of lighthouses and their components and the reasons why they should be preserved as national monuments.

10.2. LEARNING OBJECTIVES

To gain a basic (Level 1) understanding of the history of lighthouses and a satisfactory (Level 2) understanding of their components and the reasons why historic lighthouses should be preserved as national monuments.

10.3. DETAILED TEACHING SYLLABUS FOR MODULE 1 – HISTORIC OVERVIEW

<table>
<thead>
<tr>
<th>Module</th>
<th>Element</th>
<th>Sub-element</th>
<th>Subject</th>
<th>Level of Competence</th>
<th>Recommended training aids; exercises and external visits</th>
<th>References</th>
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<tbody>
<tr>
<td>1</td>
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<td>1.1</td>
<td>History of lighthouses</td>
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<tr>
<td></td>
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<td>1.1.1</td>
<td>Why early lighthouses were constructed</td>
<td>1</td>
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<td></td>
<td></td>
<td>1.1.2</td>
<td>Examples of ancient lighthouse</td>
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<tr>
<td></td>
<td></td>
<td>1.1.3</td>
<td>Definition of an historic lighthouse</td>
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<tr>
<td></td>
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<td>1.1.4</td>
<td>Developments from the 18th century</td>
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<td>1.1.5</td>
<td>Examples of 19th and 20th century historic lighthouses</td>
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<td>Components of historic lighthouses</td>
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<td></td>
<td></td>
<td>1.2.1</td>
<td>Development of light sources</td>
<td>2</td>
<td></td>
<td>GL 1080</td>
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<td>1.2.2</td>
<td>Development of sound signals</td>
<td></td>
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<td>1.2.3</td>
<td>Development of power source</td>
<td></td>
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<td>1.3</td>
<td>Preservation as National Monuments</td>
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<tr>
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<td></td>
<td>1.3.1</td>
<td>Iconic status of historic lighthouses as world maritime heritage sites</td>
<td>2</td>
<td></td>
<td>GL 1074</td>
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<td>Public interest in lighthouses</td>
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<td></td>
<td>1.3.3</td>
<td>Impact on local businesses</td>
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</table>
11. MODULE 2 - NATIONAL CONSERVATION PLANS

11.1. SCOPE

This module describes the requirement for the production of a national conservation plan and the factors to be considered.

11.2. LEARNING OBJECTIVES

To gain a satisfactory understanding of the production of a national conservation plan.

11.3. DETAILED TEACHING SYLLABUS FOR MODULE 2 – NATIONAL CONSERVATION PLANS

<table>
<thead>
<tr>
<th>Module</th>
<th>Element</th>
<th>Sub-element</th>
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<td>Involvement of stakeholders</td>
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<td>Production of a conservation plan</td>
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<td>Production of a management plan</td>
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<td>Identification of stakeholders exercise</td>
<td>IALA Complementary Lighthouse Use Manual Chapter 2</td>
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<td>Project management plans</td>
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<td>Identification of stakeholders exercise</td>
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<td></td>
<td>2.2</td>
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<td>Implementation of a management plan</td>
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<td>Risk assessment considerations</td>
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</table>
12. MODULE 3 - LEGAL ISSUES

12.1. SCOPE
This module describes the legal issues to be considered for the complementary use of an historic lighthouse.

12.2. LEARNING OBJECTIVES
To gain a basic understanding of the legal issues appertaining to the complementary use of an historic lighthouse and a satisfactory understanding of joint risk assessments appertaining to the complementary use of historic lighthouses.

12.3. DETAILED TEACHING SYLLABUS FOR MODULE 3 – LEGAL ISSUES

<table>
<thead>
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<th>Module</th>
<th>Element</th>
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<td>Ownership rights and legal restrictions</td>
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<td>Overview of national legislation and planning laws</td>
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<td>3.1.2</td>
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<td>Site ownership and rights of access</td>
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<td>Possible legal restrictions</td>
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<td>Legal agreements</td>
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<td>3.2</td>
<td>Joint Risk Assessment</td>
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<td>Assessment of risks</td>
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<td>Risk management to limit legal liability</td>
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<td>Monitoring and review procedures</td>
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</tbody>
</table>

References:
- Rec = Recommendation
- GL = Guideline
13. MODULE 4 - COMPLEMENTARY USE OF HISTORIC LIGHTHOUSES

13.1. SCOPE

This module describes the process of deciding which lighthouses to open to the public or other complementary use.

13.2. LEARNING OBJECTIVES

To gain a satisfactory understanding of the how to select which lighthouses to open to the public or other complementary use.

13.3. DETAILED TEACHING SYLLABUS FOR MODULE 4 – COMPLEMENTARY USE OF HISTORIC LIGHTHOUSES

<table>
<thead>
<tr>
<th>Table 5</th>
<th>Detailed Teaching Syllabus - Module 4</th>
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<td>Module</td>
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<td>4.1.4</td>
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<td>Selection of Lighthouses to Open</td>
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</table>
14. MODULE 5 - TECHNICAL ASPECTS OF LIGHTHOUSE PROJECTS

14.1. SCOPE

This module describes how to manage the consequences of the technical changes required when reconfiguring an historic lighthouse.

14.2. LEARNING OBJECTIVES

To gain a satisfactory understanding of how to manage the consequences of necessary technical changes when reconfiguring an historic lighthouse complementary use.

14.3. DETAILED TEACHING SYLLABUS FOR MODULE 5 – TECHNICAL ASPECTS OF LIGHTHOUSE PROJECTS

<table>
<thead>
<tr>
<th>Module</th>
<th>Element</th>
<th>Sub-element</th>
<th>Subject</th>
<th>Level of Competence</th>
<th>Recommended training aids; exercises and external visits</th>
<th>References</th>
<th>Lecture No.</th>
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<td>5</td>
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<td>Optic systems and lanterns</td>
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<td>Inventory production exercise</td>
<td>IALA Complementary Lighthouse Use Manual Chapter 8 and its annexes</td>
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<td>5.1.2</td>
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<td>Lantern house, balcony and weather vanes</td>
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<td>5.1.3</td>
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<td>Tower and internal stairways</td>
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<td>Watch rooms, dwellings and outhouses</td>
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<td>Power sources and systems</td>
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<td>Other AtoN systems (radionavaids and sound signals)</td>
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<td>Re-engineering</td>
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<td>5.2.1</td>
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<td>Replacement options</td>
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<td>‘E-200’ series of recommendations (E-200-</td>
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<tr>
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<td>5.2.2</td>
<td></td>
<td>Re-evaluation of existing optics and power system</td>
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<tr>
<td>Module</td>
<td>Element</td>
<td>Sub-element</td>
<td>Subject</td>
<td>Level of Competence</td>
<td>Recommended training aids; exercises and external visits</td>
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References:
R = Recommendation
G = Guideline
15. MODULE 6 - DOCUMENTATION

15.1. SCOPE

This module describes the records and other documentation required to be generated when managing an historic lighthouse project.

15.2. LEARNING OBJECTIVES

To gain a satisfactory understanding of the records and associated documentation to be generated when reconfiguring an historic lighthouse complementary use.

15.3. DETAILED TEACHING SYLLABUS FOR MODULE 6 - DOCUMENTATION

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<th>Module</th>
<th>Element</th>
<th>Sub-element</th>
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15.4. EVALUATION TEST

Participants will be supplied with a simplified case study of an historic lighthouse and will be tasked with the completion of a template based on Chapter 10 of the IALA Complementary Lighthouse Use Manual.