

## IALA MODEL COURSE L1.3 ON THE USE OF THE IALA RISK MANAGEMENT TOOLS

1,000€ | Language: English

The course includes the following:

- A self-study course on the Introduction to the IALA Risk Management Toolbox will be available from June 9<sup>th</sup> (~12 hours commitment).
- In-person training will be held from the 23<sup>rd</sup> to 27<sup>th</sup> June 2025 at the Hydrographic Institute, Lisbon, Portugal.

For further information, contact the IALA World-Wide Academy: [academy@iala-aism.org](mailto:academy@iala-aism.org).

### INTRODUCTION

The IALA Risk Management Toolbox is a set of tools developed by the IALA (International Organisation for Marine Aids to Navigation) to conduct maritime risk assessments. The toolbox includes five tools: **IWRAP**, **PAWSA MK II**, **SIRA**, **IRMAS** and **Simulation**. The IALA World-Wide Academy (WWA) provides training based on the "Use of the IALA Risk Management Tools" model course. This training is designed for individuals responsible for overseeing waterway management as required by SOLAS Chapter V Regulations 12 and 13. The IALA World-Wide Academy, together with the Hydrographic Institute in Lisbon, will run a training course focusing on the following IALA Risk Management tools and providing an overview of the others:

**IWRAP** is a standardized, quantitative method to evaluate the probability of collisions, groundings, and allisions in a given waterway. Using AIS data, IWRAP, a Windows-based software program, allows different scenarios to be developed so that changes such as those in traffic volume or composition, route geometry, aids to navigation or introducing other mitigating measures can be modelled.

**SIRA** is a simplified qualitative method for assessing the volume of traffic and degree of risk and identifying potential risk mitigation options to reduce the risks to acceptable levels. It is particularly applicable where good-quality AIS data, on which IWRAP depends, is unavailable or where access to individuals with the necessary experience level in the risk categories PAWSA uses is limited.

### TRAINING DELIVERY

The training will be delivered by global experts in waterway risk management using the IALA risk management tools.

- Training via self-study and distance learning will present fundamentals of the IMO Formal Safety Assessment, ISO 31000 Standard on Risk Management, and the IALA risk management tools.
- During in-person training, course participants will apply the IALA risk management tools to real-world scenarios and discuss the complementary use of the tools and stakeholder management.

### SUCCESSFUL RISK ASSESSMENTS

Successful risk assessments have been conducted globally. Some examples are presented below:

- IWRAP has been used to evaluate allisions involving wind farms in the Dover Strait.
- SIRA has been used in Liberia, Somalia, and the South-west Pacific community.
- PAWSA MK II was recently used by the Port of Antwerp and the Port of Beirut.

### GOAL

After completing this course, you will thoroughly understand IWRAP and SIRA and be able to apply the tools to manage waterway risks.

### COURSE TARGET AUDIENCE

The course targets all those involved in the safe and efficient movement of vessels, including VTS and AtoN providers, port authorities, pilotage providers, waterway managers, allied services, marine spatial planners, maritime regulators, training organisations and consultants.

### HARDWARE-SOFTWARE AND DATA

- A Microsoft Windows 64-bit laptop with an external mouse is required to install IWRAP. A copy of the IWRAP software will be issued and installed on participants' laptops. Participants must, therefore, have an "unlocked" laptop. Please note that IWRAP does not work on Apple computers.
- Terrestrial AIS data and nautical charts will be provided for modelling in IWRAP, but students can use their own.
- A copy of Microsoft Excel.



## VENUE

The in-person training will be held at the Hydrographic Institute, Rua das Trinas, 49, Lisbon, 1249-093 Portugal. The Hydrographic Institute is located west of the city center, on the historical district of Madragoa, on one of the hills near the Tagus river.

The below link takes you to the location: <https://goo.gl/maps/4sX6Np2mUkgBNBrk8>

## HOTELS

Hotels offering special rates near the course venue are listed below. Additional details will be provided upon registration.

- Lisbon São Bento Hotel
- Janelas Verdes
- York House Hotel

## REGISTRATION AND FEES

This course has a capacity of 40 spaces, and online registration is available on the IALA website. The course fee of 1,000€ includes the following:

- Participation in all sessions
- All material presented at the course
- Full license for IWRAP for three months after the course
- All lunches and coffee/tea breaks
- Course dinner on the evening of Day 3

## CANCELLATION POLICY

Cancellations must be sent by e-mail to [contact@iala-aism.org](mailto:contact@iala-aism.org). A refund in full of the registration fee will only be provided if notification is given at least one month before the event. Otherwise, a cancellation charge of 50% will be applied. Name changes will be accepted. In case of a no-show, 100% of the registration fee will be charged.

## PROVISIONAL PROGRAMME

Day 1	
Morning session	Opening ceremony. Review of the course: <i>Introduction to the IALA Risk Management Toolbox</i> .
<b>Lunch</b>	
Afternoon session	Lecture on the principles of risk management, the development and principles of SIRA, coffee break and welcome reception.
Day 2	
Morning session	Practical exercise on risk management using SIRA.
<b>Lunch</b>	
Afternoon session	Practical exercise on risk management using SIRA.
Day 3	
Morning session	Practical exercise on risk management using IWRAP.
<b>Lunch</b>	
Afternoon session	Practical exercise on risk management using IWRAP.
<b>Course dinner</b>	
Day 4	
Morning session	Lecture on the development and principles of IWRAP.
<b>Lunch</b>	
Afternoon session	Lecture on the principles of PAWSA, stakeholder management and facilitation of risk management workshops.
<b>Field visit to technical facility</b>	
Day 5	
Morning session	Simulation case studies.
<b>Lunch</b>	
Afternoon session	Discussion of the complementary use of the IALA risk management toolbox, workshop recommendations. Coffee break and closing ceremony.