



Australian Government  
Australian Maritime Safety Authority



Port of Melbourne



PORTS VICTORIA

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

Cost: €1,500.

Language: English

The course will be conducted via:

- **Distance learning** from the **17th of October to the 11th of November 2022** using the **virtual IALA Campus** (~10 tutor-led hrs)
- **In-person training** from the **21st to the 25th of November 2022** at the **Port Education Centre in Melbourne, Australia.**

For further information contact the IALA World-Wide Academy: [academy@iala-aism.org](mailto:academy@iala-aism.org) or visit the risk management section of the IALA website.

### INTRODUCTION

The IALA World-Wide Academy, together with the Australian Maritime Safety Authority, the Port of Melbourne and Ports Victoria, will run a training course on the following IALA Risk Management tools:

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

**PAWSA MK II** - a structured and systematic approach to:

- identify major waterway safety hazards;
- estimate risk levels, evaluate potential mitigation measures; and
- set the stage for the application of selected measures to reduce risk.

As a qualitative tool, PAWSA is exploratory, and the analysis seeks to get a deeper understanding of why a particular phenomenon occurs, its associated consequences and the potential effectiveness of additional mitigation measures.

**SIRA** - a simplified qualitative method to assess the volume of traffic and degree of risk and identify potential risk mitigation options to reduce the risks to acceptable levels. SIRA 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 used by PAWSA is limited.

**IRMAS** - a standardized approach to documenting the process of risk assessment. The use of IRMAS also develops a repository of operational risk assessments undertaken for small-scale applications. The training will be delivered by global experts in waterway risk management using the IALA risk management tools.

- Training via distance learning will present the 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.

### GOAL

After completing this course, you will have a thorough understanding of the toolbox 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 organizations 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.
- A stable internet connection capable of supporting Microsoft Teams.

### VENUE

The in-person training will be held at the Port Education Centre 343-383 Lorimer Street, Port Melbourne VIC 3207, Australia.

### HOTELS

There are numerous hotels in the Melbourne area, many of which are short taxi/Uber journeys from the Port Education Centre. A list of hotels will be circulated shortly.

### REGISTRATION AND FEES

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

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

### CANCELLATION POLICY

All 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 FOR DISTANCE LEARNING TRAINING

Training via distance learning includes self-study exercises and approximately 10 tutor-led hours.

Part 1	
Online tutorial	Opening ceremony and introduction to the IALA risk management toolbox.
Self-study	Self-study exercises include the IALA Guideline G1123 on the use of IWRAP, an introduction to the concept and capabilities of IWRAP and the AIS data suitable for use.
Part 2	
Online tutorial	Discussion of the use of IWRAP for risk management and a lecture on the development and principles of the PAWSA MK II method.
Self-study	Self-study exercises include the IALA Guideline G1124 on using the PAWSA MK II method.
Part 3	
Online tutorial	Lecture on Books 1 to 3 of the PAWSA MK II method.
Part 4	
Online tutorial	Lecture on the use of Books 4 and 5 of the PAWSA MK II method.
Part 5	
Online tutorial	Lecture on the fundamentals of preparing for a PAWSA MK II workshop and installing the IWRAP software.
Self-study	Self-study exercises include the IALA Guideline G1138 on using the SIRA method.
Part 6	
Online tutorial	Lecture on the advanced development and principles of the SIRA method.

## PROVISIONAL PROGRAMME FOR IN-PERSON TRAINING

Day 1	
Morning session	Opening ceremony, a review of the distance learning training material, practical exercises on risk management using IWRAP and coffee break.
Lunch	
Afternoon session	Practical exercises on risk management using IWRAP, coffee break and welcome reception.
Day 2	
Morning session	Practical exercise on risk management using IWRAP and coffee break.
Lunch	
Afternoon session	Practical exercise on risk management using IWRAP and coffee break.
Day 3	
Morning session	Lecture on using IRMAS for risk management, lecture and practical exercise on developing the SRIA workbook, and coffee break.
Lunch	
Afternoon session	Practical exercises on risk management using the SIRA method and the PAWSA MK II method, coffee break and dinner.
Day 4	
Morning session	Practical exercise on risk management using the PAWSA method and coffee break.
Lunch	
Afternoon session	Lecture on stakeholder management and facilitation of risk management workshops, presentations on the complementary use of the IALA risk management toolbox and coffee break.
Day 5	
Morning session	Question and answer session with an expert panel. Workshop recommendations, coffee break and closing.
Lunch	