



# DEEP DIVE

The e-learning programme of the  
International Seabed Authority



2021  
2030 United Nations Decade  
of Ocean Science  
for Sustainable Development

[deep-dive.isa.org.jm](https://deep-dive.isa.org.jm)

June 2024

## An international and interactive e-learning programme

As an intergovernmental organization with the unique mandate given by the United Nations Convention on the Law of the Sea (UNCLOS) to regulate and manage deep-seabed activities for the benefit of humankind in the Area, the International Seabed Authority (ISA) has a global network of diplomatic representatives, policymakers, world-class researchers and experts who provide participants of the Deep Dive e-learning programme with exceptional and never-before-offered insight into the world of deep-seabed regulation, exploration and exploitation.

Deep Dive has been conceived to equip participants with specialized knowledge of the Area and provide insight into deep-seabed activities for optimal career success. It has been designed to catalyse worldwide international expertise in deep-seabed-related matters to produce a new generation of leaders and multitalented professionals who will contribute to the effective implementation of UNCLOS, the 1994 Agreement and, ultimately, the achievement of the 2030 Agenda for Sustainable Development at all levels.

The programme's interdisciplinary approach will provide participants with the analytical, scientific and technical skills needed to apply creative solutions to issues relevant to activities in the Area.

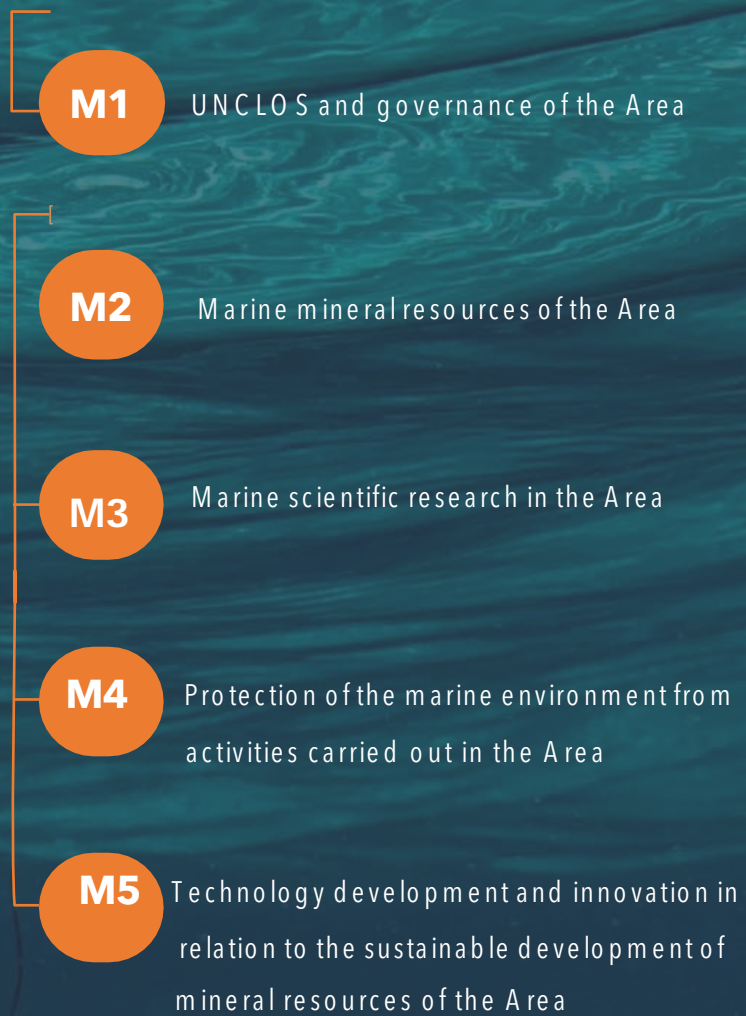
## Programme overview

Building on the exclusive body of expertise and practical experience of deep-seabed leaders, the Deep Dive e-learning programme is indispensable for those with established careers, those with aspirations in the emerging field of deep-sea-related research disciplines and those working in the context of the sustainable development of the ocean and its resources.

Deep Dive is the first and only e-learning experience exclusively devised by an intergovernmental institution to address all elements of the legal regime set out in Part XI of UNCLOS, the 1994 Agreement and the ISA rules, regulations and procedures covering technical and scientific aspects of deep-sea mining. Facilitated e-learning allows maximum flexibility with individual learning activities that participants can complete at their own pace, regardless of location.

The innovative modules and lessons, organized in three progressive learning pathways, or "Dives," have been designed to increase awareness of the legal regime for activities in the Area and familiarize the participants with the governance structure, existing mechanisms and the way they contribute to the effective implementation of the legal regime for the Area and its resources.

# Deep Dive is structured around five modules



The three learning pathways or Dives offer the following mix of learning options



DIVE 1  
comprised of  
Module 1 only



DIVE 2  
comprised of Module  
1 plus any two modules  
chosen from the other  
four



DIVE 3  
comprised of all Modules

# Module 1 - UNCLOS and governance of the Area

Module 1 covers the legal regime governing activities in the Area under UNCLOS and the 1994 Agreement. The module consists of seven mandatory and four elective lessons. All lessons are delivered by internationally renowned experts.

**Deep Dive | Module 1 - experts**  
**"UNCLOS and the governance of the Area"**



 Aldo Chircop

 Dale Squires

 Eden Charles

 Elie Jamarache

 Mariana Durney

 Michael W. Lodge  
*Lead expert*

 Marie Bourrel-McKinnon

 Michael Wood

 Michelle Walker

 Rüdiger Wolfrum

 Tara Davenport

 Ulrich Schwarz-Schampera

 Warwick Gullett

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# Module 2 - Marine mineral resources of the Area

Module 2 discusses the marine mineral resources of the Area, with a focus on the social and scientific aspects of activities in the Area. The module consists of six mandatory and four elective lessons.

**Deep Dive | Module 2 - experts**  
**"Marine mineral resources of the Area"**



 Pedro Madureira  
*Lead expert*

 Dale Squires

 Georgy Cherkashov

 Harald Brekke

 John Parianos

 Joshua Tuhumwire

 Kira Mizell

 Saleem Ali

 Sven Peterson

 Thomas Kuhn

 Ulrich Schwarz-Schampera

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## Module 3 - Marine scientific research in the Area

Module 3 is dedicated to marine scientific research in the Area. This module focuses on the legal regime of the Area, the impact of research on the technology used and data-collection. The module consists of six mandatory and four elective lessons.

**Deep Dive | Module 3 - experts**  
**"Marine scientific research in the Area"**

**Samantha Smith**  
Lead expert

**Annemiek Vink**

**Elie Jarmache**

**Ellen Pape**

**Luciana Genio**

**Malcolm Clark**

**Noemie Wouters**

**Samuel Popoola**

**Tomohiko Fukushima**

**Ulrich Schwarz-Shampera**

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## Module 4 - Protection of the marine environment from activities carried out in the Area

Module 4 covering the protection of the marine environment focuses on the obligation to protect the marine environment by ISA and other actors involved in activities in the Area. The module consists of eight mandatory and four elective lessons.

**Deep Dive | Module 4 - experts**  
**"Protection of the marine environment"**

**Yoshihisa Shirayama**  
Lead expert

**Ann Vanreusel**

**Atsuko Kanehara**

**Daniel Jones**

**Katsunori Fujikura**

**Kirsty McQuaid**

**Lea Kolmos Weis**

**Luciana Genio**

**Malcolm Clark**

**Marie Bourrel-McKinnon**

**Tomohiko Fukushima**

**Wanfei Qui**

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# Module 5 - Technology development and innovation in relation to the sustainable development of mineral resources of the Area

Module 5 covers technology development. This module looks at the various tools and technologies for the exploration and exploitation of mineral resources of the Area. The module consists of eight mandatory and four elective lessons.

**Deep Dive | Module 5- experts**  
"Technology development and innovation in relation to the sustainable development of mineral resources of the Area"

Leonhard Weixler  
*Lead expert*

Akira Usui

Alden Denny

Anna Lim

Berit Floor Lundt

Birte Timm

Carsten Ruhlemann

David Pusztai

Georgy Cherkashov

Gianni Scherl

Johan Heiler

Kris De Bruyne

Nobuyuki Okamoto

Ulrich Schwarz-Shampera

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## Admission and fees

Admission to the programme is on a rolling, year-round basis. The Dives start in January, May and September each year.

Deep dive is offered at **no fee** to applicants from developing countries

The tuition fees depend on the learning pathway chosen by the participant. Selected students from developed countries are requested to pay a tuition based on the chosen learning path.

DIVE 1  
USD 150

DIVE 2  
USD 350

DIVE 3  
USD 450

## Learning Support

The ISA Secretariat is aware that students may have questions about their selected programme of study and will assist participants from their enrolment until the completion of the selected dive (s).

## Upcoming Cohorts

September - November 2024

January - March 2025

## Entrance requirements

Applicants should meet the following general entrance requirements:

- Education

Dive 1	Dive 2	Dive 3
A bachelor's degree in a relevant discipline or 1 - 2 years of relevant experience in lieu of a bachelor's degree.	A bachelor's degree in a relevant discipline or 3 - 4 years of relevant experience in lieu of a bachelor's degree.	A bachelor's degree in a relevant discipline or five or more years of relevant experience in lieu of a bachelor's degree.

- Language: students whose first language of education is not English are required to present evidence of English proficiency as tested by IELTS (Band 6.0 or above), TOEFL (80+ Internet test or 550+ paper-based scores) or CPE (CPE/C2) are accepted;
- Completed motivation statement outlining how the programme will further the applicant's career and/or personal development.

### ***How to apply***

All interested applicants are invited to register through the ISA online portal, <https://deepdive.isa.org.jm/sign-up>, and submit their applications together with the necessary supporting documents in accordance with the established deadlines.