

## **User manual for the E-learning modules on Underwater Domain Awareness (UDA)**

### **About this document**

This document will guide you on how to access the various modules available in the course and how to use them to enhance your skills and knowledge about Underwater Domain Awareness (UDA) Framework and its application for solving real-world problems. The courses have been designed and conceptualized by Team MRC, under the guidance of our Founder and Director of MRC, Dr (Cdr) Arnab Das.

### **About the resource person**

Dr (Cdr) Arnab Das is a researcher, maritime strategist, technocrat, and entrepreneur and he drives all the major initiatives at MRC. Dr. Das completed his Master's and Ph.D. from the Indian Institute of Technology (IIT), Delhi while serving in the Indian Navy as a uniformed officer for two decades.

### **Objectives of E-learning Modules**

- To impart knowledge about the basics of the UDA, UDA Framework, freshwater management, various initiatives by the Centre for Maritime governance, sustainability concerns of the Indian Ocean Region, challenges associated with the UDA, etc.
- To equip learners with skills required to drive the UDA Framework prepared by MRC
- To evaluate the learners based on their understanding of the modules

### **Competencies**

- Science and Technology- Functional
- Risk Assessment and Management- Functional
- Oceanographic knowledge- Domain
- Maritime Law and Regulation- Domain
- Underwater Navigation- Domain
- Data analysis- Functional
- Geopolitics and IR- Domain
- SAGAR Vision- Domain

### **Prior skill or knowledge requirements:**

- Navigating course material
- Basic understanding of the geopolitical domain
- Basic understanding of the maritime domain

### **Details at a glance:**

- Total duration of the course: 5+ hours
- Total number of modules: 10
- Total number of videos: 25+
- Total number of assessments: 25+ assessments
- Total pdfs: 2

### **Step-by-step process of accessing the e-learning modules:**

**Step 1:** Create login and password credentials to access the e-learning modules. For this, you will be required to fill in some details including your name and email ID.

**Step 2:** Once you have created the required credentials, you can take a tour of the e-learning modules.

**Step 3:** Go through the 'Course Info' section and there, read about the resource person and about different courses individually.

#### **About Course**

**About Resource Person:** A researcher, maritime strategist, technocrat and entrepreneur, Dr. (Cdr) Arnab Das is the founder and Director of Maritime Research Center (MRC), Pune and he personally drives all the initiatives. Dr. Das completed his Masters and PhD from Indian Institute of Technology, Delhi while serving in the Indian Navy as a uniformed officer for two decades.

**Module 1:** In this module, you will learn about the basics of Underwater Domain Awareness (UDA), including the key stakeholders involved, the importance of UDA, about UDA framework, freshwater management, and the way forward for the UDA Framework.

**Module 2:** In the following module, you will learn about the interconnection of the UDA Framework with the SAGAR vision, which was proposed by our Honourable Prime Minister of India Narendra Modi. This module will give you context on India's status in the global order and various projects that support the SAGAR vision.















**Module 3:** In the following module, you will learn about various challenges associated with UDA in tropical waters, including political, economic, and physical challenges. It will further make you understand the most important developments of the Cold War period in context with the UDA and how the Indo-Pacific strategy is shaping up in the new global order.

**Step 4:** The course also includes certificates after successfully completing all of the given modules and reading material for each of the classes. The reading material includes UDA-Digest articles, research publications, and webinars/seminars published and conducted by MRC.

**Step 5:** Go through the 'Course Curriculum' and understand the subject matter for each of the e-learning modules.

## Course Curriculum

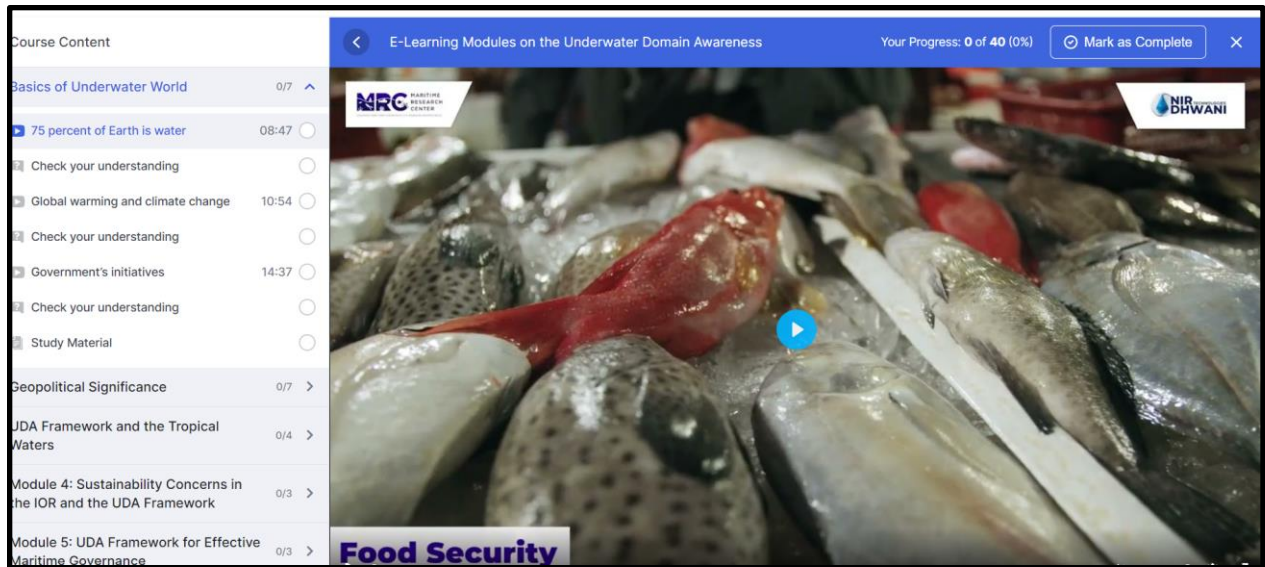
### Basics of Underwater World

 75 percent of Earth is water	08:47	
 Check your understanding		
 Global warming and climate change	10:54	
 Check your understanding		
 Government's initiatives	14:37	
 Check your understanding		
 Study Material		

### Geopolitical Significance

### UDA Framework and the Tropical Waters

**Step 6:** Spend time going through each of the modules. Each of the modules has been divided into two-three sub-parts. Each sub-part encapsulates 10-12 minute short explanatory videos (that incorporate presentations and lectures by our resource person). After going through each sub-part, kindly take the quiz to evaluate the lessons learned.



**Step 7:** Please go through all the study materials available.

You can refer to the below articles to know more about Underwater Domain Awareness (UDA) Framework:-

1. The Indian Ocean Region (IOR) and the Underwater Domain Awareness (UDA) Framework
2. Maritime Domain Awareness – A Call for Capacity Building
3. Naval History of South Asia and Underwater Domain Awareness
4. UDA needed for maritime security coordination in Indo-Pacific

**Step 8:** Please go through the report of the 'March Workshop' series which was held at MRC as this will give you deep insights on the subject from domain experts. You can find the same in the 'Resources' section.

**Step 9:** Revise all that you've learned so far and be ready to attempt the quiz questions.

**Step 10:** The quiz has been designed in the multiple-question choice (MCQ) format and you will be required to click on one of the four options provided for every question. After viewing each of the videos, you'll be required to take the quiz questions.

Questions No: 1/10 Total Attempted: 3/3

### 1. Why is Underwater Domain Awareness (UDA) important?

Because 75% of the earth is underwater

It supports the life of the underwater species.

There is a need for us to enhance our understanding of underwater.

All of the above.

Submit & Next

**Step 11:** Once you have attempted all questions then you will be required to submit your responses and thereafter you can see your score and result.

#### **Frequently Asked Questions:**

##### **Does the course require any advanced software?**

The E-learning modules do not require any advanced software at this stage and you would just need to access the link using browsers such as Chrome, Firefox, Edge, Opera, Safari, etc.

##### **What are the prerequisites for accessing the course?**

Make sure you have access to a good internet connection.

##### **Will the course run only on laptops and desktops?**

The course can be accessed via mobile phone, desktop, laptop, or any other electronic device on which the internet can be run.

##### **Do I require additional study material to take the Quiz challenge?**

The course materials provided in the e-learning modules are sufficient enough for you to take the test. However, you may study more on the subjects using other study materials as well.

##### **Will there be more such courses in the future?**

Yes, we shall be coming up with more such modules with more advanced topics.

##### **Do I have to pay for the course?**

There is no registration fee required to access this course.

##### **What is expected from me as a learner of your course?**

By the time you consume all of our course material, you should gain a clear understanding of the Underwater Domain. You must go through each quiz question, attempt them, and study the reference materials provided for each of our modules.

**Can I attempt the quiz more than once?**

Yes, you may attempt quiz questions more than once.

**How long is my course?**

The complete duration of the course is over 5 hours.