



# EMSA TRAINING CATALOGUE

## PURPOSE OF THE CATALOGUE

The purpose of this catalogue is to set out, in one document, the programmes that form the basis of EMSA's routine training activities. It describes those training courses which are provided for the benefit of EU Member States, Norway and Iceland, Enlargement and European Neighbouring Countries, even if these are not necessarily held every year. While the majority of training activities are organised on a regular basis, EMSA also occasionally provides some ad hoc courses to cover the very specific needs of maritime administrations at a particular time.

Upon request, EMSA also provides training for EU Agencies (the European Fisheries Control Agency (EFCA), the European Border and Coastguard Agency (Frontex)), and other EU stakeholders with maritime related tasks or functions, including the EU Naval Force (EUNAVFOR), the EU Agency for law enforcement cooperation (EUROPOL) and the Maritime Analysis and Operations Centre – Narcotics (MAOC-N).

For each course, the catalogue indicates the potential audience, duration and key topics. By providing this information concisely and in one place, the catalogue will help raise awareness of EMSA's wide-ranging activities in the field and also assist beneficiary countries' maritime administrations in defining their own training needs.

## LEGAL BASIS

The provision of training activities is among the core tasks of the Agency as established in its founding Regulation (EC) No 1406/2002 as amended. Accordingly, EMSA:

- organises, where appropriate, relevant training activities in fields which are the responsibility of the EU Member States, Norway and Iceland (Art. 2.3.a)
- may, upon the request of the Commission, provide technical assistance, including the organisation of relevant training activities, as regards relevant legal acts of the Union, to states applying for accession to the Union and, where applicable, to European Neighbourhood Partner Countries and to countries taking part in the Paris MoU (Art. 2.5)
- where appropriate, through European Cooperation on coast guard functions, support building capacity by drawing up guidelines and recommendations and by establishing best practices as well as by providing training and exchange of staff (Art 2.b.1.c) of Regulation (EU) 2016/1625.

## HOW IT WORKS

EMSA training activities are mainly organised and coordinated by the Training & Cooperation Team. The team works in close cooperation with the focal points for EMSA, appointed by the competent national administrations.

The planning of the training activities differs depending on whom they are addressed to: EU Member States, Enlargement or Neighbouring Countries.

In the case of the EU Member States, Norway and Iceland, the annual training programme is agreed by the focal points at their meeting of the Consultative Network for Technical Assistance (CNTA) and covers all fields of EMSA's mandate: flag State, marine accident investigation, ship security, traffic monitoring, port reception facilities, marine equipment, pollution response, maritime labour convention, implementation of relevant EU law, etc. EMSA also organises training activities related to Port State Control (PSC), holding seminars for PSC officers from the Paris MoU members. These seminars target PSC officers and have a somewhat different legal ground and significance, in view of the links to the Paris MoU on Port State Control and the mandatory training requirements for PSC officials under EU law.

The activities for Enlargement and European Neighbouring Countries are organised and implemented within the framework of EU funded projects for technical assistance and take into account the needs for technical assistance both at regional and bilateral level. They currently cover:

- Albania, Bosnia & Herzegovina, the Republic of North Macedonia, Montenegro, Serbia and Turkey (Enlargement Countries)
- Algeria, Egypt, Israel, Jordan, Lebanon, Libya, Morocco, Palestine, Syria (suspended) and Tunisia (Southern Neighbouring countries), and
- Azerbaijan, Georgia, Iran, Kazakhstan, Moldova, Ukraine, Turkey and Turkmenistan (Eastern Neighbouring Countries).

Some courses provided by EMSA focus on training users on specific applications and services and are therefore coordinated and provided directly by the EMSA team responsible for the application or service in question. Furthermore, some courses related to marine pollution preparedness and response are coordinated under the framework of the Consultative Technical Group for Marine Pollution Preparedness and Response (CTG MPPR).

Examples of such user training include:

- the PSC inspection system (THETIS), the ships' inspection system supporting the enforcement of EU legal acts as relevant (THETIS-EU), the European Marine Casualty Investigation Platform (EMCIP);
- the vessel traffic monitoring and reporting system SafeSeaNet (SSN), the EU Long Range Identification and Tracking Cooperative Data Centre (EU LRIT CDC), the oil spill monitoring service CleanSeaNet (CSN), Integrated Maritime Services (IMS) and associated databases and tools;
- training is also provided to support users of the Copernicus Maritime Surveillance (CMS) service, the Remotely Piloted Aircraft Systems (RPAS) Data Centre, and the Equipment Assistance Service (EAS).

Priorities regarding the Agency's training activities consider national requests, through the National Competent Authorities (NCAs) for each application or service. These training courses may be held at EMSA, or at the Member State's premises, for one or for several countries

Most of the training activities are designed, developed and provided by EMSA staff through courses, seminars and exchanges of best practices. However, high-level experts from the maritime administrations and external contractors are also frequently called in to assist by sharing their practical experience with other Member States.

The participants, attending training sessions organised by EMSA receive certificates of attendance and are requested to provide their feedback, comments and recommendations on the event by filling in an evaluation questionnaire.

Training nowadays is an increasingly complex activity because of a growing regulatory framework in relation to technology evolution and application procedures. Therefore, there is a need to deliver training in a more efficient way so that officials can rapidly upgrade their skills. New training methods for users, including webinars and e-learning are available for some courses, with the goal of improving the quality of training delivered for Members States officials. With this new approach e-learning may supplement, or in some cases, replace classroom training. The MaCKs e-learning catalogue provides a description of available e-learning courses.



## HOW TO REGISTER FOR TRAINING SESSIONS

1. Events for Member States and Enlargement Countries:
  - Invitation letters are sent 2 months before the event
  - National focal points are requested to register participants
  - Before closure of registration, participants must register online at: <https://extranet.emsa.europa.eu/e-register/>
2. Events for European Neighbouring Countries:
  - The National focal points are requested to nominate participant(s)
  - Invitation letters are sent to nominated participants
  - Nominated participants must confirm their participation via email and provide relevant details to enable EMSA to make travel arrangements.

## REIMBURSEMENT RULES

Registered participants are entitled to reimbursement according to the EMSA rules available from the registration page. Reimbursements for enlargement countries attendees and ENP beneficiaries are different from those of the Member States.

Questions regarding on-line registration and reimbursement rules can be addressed to:


[events@emsa.europa.eu](mailto:events@emsa.europa.eu)

## CONTACT POINT



Questions regarding EMSA's training activities can be addressed to:

[training&cooperation@emsa.europa.eu](mailto:training&cooperation@emsa.europa.eu)

Your enquiry will then be forwarded to the respective EMSA team.

 indicates that an e-learning module is associated with the training course and may contain pre-course or supplementary training material.

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**6. EU/INTERNATIONAL LEGISLATION****40**

- EU maritime legislation 
- EU marine environmental legislation 
- Institutional Training (EU, EC, EMSA, IMO) **New!**
- Places of refuge for ships in need of assistance **New!**
- Liability and Compensation
- Marine Equipment Directive (MED) 
- Preparation for IMSAS **New!**

**7. PORT STATE CONTROL****48**

- Port State Control Officers seminar
- THETIS


**8. VESSEL MONITORING AND REPORTING****52**

- SafeSeaNet basic training
- SafeSeaNet advanced training
- User Management functions on the Identity Management Platform (IdM) **New!**
- SafeSeaNet incident report training for Member State authorities  **New edition!**
- SafeSeaNet HAZMAT training for Member State authorities 
- EU LRIT CDC basic training
- EU LRIT CDC advanced training

**9. MARITIME SURVEILLANCE****60**

- Integrated Maritime Services (IMS) for EU Member States
- Integrated Maritime Services (IMS) for EU Agencies and other bodies
- CleanSeaNet (CSN) basic training
- CleanSeaNet (CSN) advanced training
- Copernicus Maritime Surveillance Service (CMS) **New!**
- Remotely Piloted Aircraft Systems (RPAS) Data Centre **New!**
- Advanced Automated Behaviour Monitoring (ABM) **New!**
- Webinars on the SafeSeaNet Ecosystem Graphical (SEG) user interface **New!**

**10. POLLUTION PREPAREDNESS AND RESPONSE****70**

- Hands-on training on the Equipment Assistance Service (EAS)  **New!**
- Training on the use of surveillance systems for marine pollution detection and assessment
- Training on oil spill sampling **New!**



# TRAINING COURSES

## MARITIME SAFETY

The aim of these training courses is to support the implementation of EU legislation on maritime safety and to encourage the exchange of best practices among Member States.

The courses consist of theory, case studies and working groups which are designed to broaden the knowledge of the participants on the given subject matter and to bring them together in order to work collaboratively, sharing first-hand experience.

Some courses can be run by external contractors with experience in providing training on maritime safety.

High-level experts from the Member States or from other bodies/institutions can be invited as speakers to attend the training sessions and share their experience.

- **PASSENGER SHIP SAFETY**
- **FLAG STATE INSPECTOR TRAINING**
- **FLAG STATE IMPLEMENTATION**
- **RECOGNISED ORGANISATIONS MONITORING & AUDITING TECHNIQUES**
- **ISM SIMULATED AUDIT**
- **ISM CODE**



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<b>TITLE</b>	<b>PASSENGER SHIP SAFETY</b>
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<b>DURATION</b>	2 days
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<b>AUDIENCE</b>	This course is geared towards officials who already have a good knowledge of the subject matter and are involved in the development of technical policy as part of the ongoing work at IMO and at EU level.
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## LEARNING OBJECTIVES

Participants learn about the latest developments of the ongoing work at IMO and will be given an up-to-date overview of the European Union's approach to passenger ship safety as addressed through the relevant EU legislation or the ongoing projects.

## KEY TOPICS

- Latest developments in IMO on passenger ship safety related topics
- Latest research projects on passenger ship safety
- Latest developments at EU level.



**NEW!**

<b>TITLE</b>	<b>FLAG STATE INSPECTOR TRAINING</b>
<b>DURATION</b>	5 days
<b>AUDIENCE</b>	The training is aimed at personnel from the relevant administrations working or have just started to work on a regular basis as Flag State Inspectors.



### LEARNING OBJECTIVES

The overall objective of the training session is to provide the appropriate knowledge and competencies to Flag State Inspectors in line with the provisions of paragraphs 35 and 36 of the III Code. During the training the participants will be involved in workshops and exercises using the EMSA tools RuleCheck and THETIS developed to support the activity of the PSCO/Flag State Inspectors.

### KEY TOPICS

- Introduction to international Conventions and EU Legislation
- Practical approach with case studies on various areas of the ship (certificates & documents, bridge, deck, engine room, etc.)
- Tools available (RuleCheck, THETIS-EU).

<b>TITLE</b>	<b>FLAG STATE IMPLEMENTATION</b>
<b>DURATION</b>	2 days
<b>AUDIENCE</b>	This course is designed for officials from maritime administrations who are involved in flag State administrative matters both at central and peripheral level.



## LEARNING OBJECTIVES

Participants learn about the core principles and the latest developments of the relevant EU legislation on flag States with an emphasis on compliance with flag State requirements, rules and standards for ship inspections and survey organisations.

## KEY TOPICS

- Flag State Directive 2009/21/EC
- IMO III Code
- IMO Member States Audit Scheme (VIMSAS/IMSAS)
- European legislation on ROs
- Member State obligations under the relevant international and European legislation
- Monitoring the fleet and follow-up of PSC inspections/detentions
- Delegation of tasks to ROs
- Sharing best practices.

<b>TITLE</b>	<b>RECOGNISED ORGANISATIONS MONITORING &amp; AUDITING TECHNIQUES</b>
<b>DURATION</b>	2 days
<b>AUDIENCE</b>	The training is aimed at officials working at maritime administrations and who are actively involved in the monitoring and oversight of ROs.



### LEARNING OBJECTIVES

The training session will provide participants with information on the EU legislation regarding Recognised Organisations (ROs). In addition the training will include practical examples on monitoring and oversight of the ROs based on EMSA's experience in carrying out inspections, as well as presentations of specific topics of a horizontal nature which EMSA has analysed based on its inspections. Case studies will actively engage the participants and will give them practical guidance which could be used for their ROs monitoring activities.

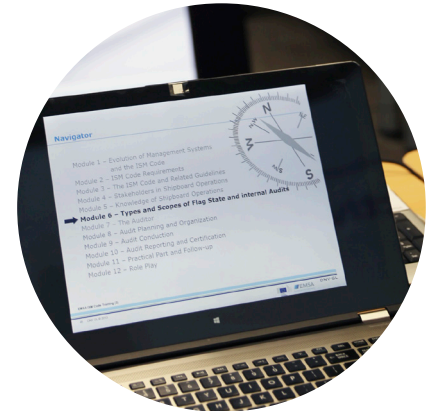
### KEY TOPICS

- EU Directive 2009/15 & Regulation (EC) 391/2009
- RO Code
- EMSA experience
- Assessment of RO competence
- Assessment of RO experience
- Auditing techniques
- Survey file review.

**TITLE** **ISM SIMULATED AUDIT**

**DURATION** 2 days

**AUDIENCE** This course is designed for junior ISM auditors and maritime administration staff dealing with ISM issues.



## LEARNING OBJECTIVES

Participants develop a practical approach on ship audit techniques and become aware of the latest changes to the ISM Code and guidelines by conducting a simulated audit with a set of case studies and possible problems encountered.

## KEY TOPICS

- General overview of the ISM Code
- The role of auditor
- Audit techniques
- Planning and preparation of an audit
- Organisational chart case study
- Managing a drill case study
- Managing watertight doors case study
- Maintenance case study
- Certification & criteria for determining non-conformity or other findings.

**TITLE**

**ISM CODE**

**DURATION**

4 days

**AUDIENCE**

This course is designed for flag and Port State Control Officers from the maritime administrations of the Member States. It may also be useful for those monitoring Recognised Organisations (RO) and wishing to learn more about the ISM Code.



**LEARNING OBJECTIVES**

This highly interactive course gives participants a solid grounding in the ISM Code, an understanding of the various audits conducted (flag State, RO and internal) and helps them to develop a practical approach to the interpretation and application of the ISM Code.

**KEY TOPICS**

- Management system standards and ISM Code (including the interrelationship between ISM Code and other management standards)
- ISM Code requirements - Part A & Part B
- European legislation on the International Safety Management (ISM) Code
- Revised guidelines on ISM Code implementation by administrations [IMO Res. A.1022(26)]
- ISM Code compliance - role and responsibilities of parties involved (flag State, RO, company, auditor)
- Understanding the relationship between ISM Code and existing international legislation
- Type and scope of internal audits and flag State audits (initial, renewal, periodical, additional)
- Role of auditor
- Process of planning and organising a flag State audit - ISM Code compliance - verification both of the ship and the company.





## MARITIME SECURITY

The aim of these courses is to support the implementation of EU legislation on maritime security and to encourage the exchange of best practices among Member States.

The basic courses are run by high level external contractors with experience in training on maritime security. They provide participants with an overview on both the ship and port facility provisions of the ISPS Code.

The advanced courses are run by EMSA and consist of theory and practical exercises designed to strengthen cooperation among maritime administration staff as well as to harmonise the standards of implementation for ship, port facility and port security.

- **ISPS CODE – BASIC TRAINING**
- **ISPS CODE – ADVANCED TRAINING ON SHIP SECURITY**
- **ISPS CODE – ADVANCED TRAINING ON PORT FACILITY SECURITY**

**TITLE** ISPS CODE – BASIC TRAINING

**DURATION** 4 days

**AUDIENCE**

This course is geared towards officials from maritime administrations who have recently acquired, or who may acquire in the future, duties involving matters of international maritime security and who want to gain knowledge of the key principles and current practices on maritime security including auditing procedures.



Pre-course material in MaKCs

**LEARNING OBJECTIVES**

This highly interactive and practical course provides participants with knowledge of the main elements of the International Ship and Port Facility Security (ISPS) Code and EU related maritime security legislation. It starts with an entry test and concludes with a final evaluation.

**KEY TOPICS**

- Relevant international security legislation and guidelines
- Principles and practice of auditing (types of audits both for ship and port facility) and inspection in relation to ISPS Code
- Risk assessments and security plans
- The content and interrelationship between ISPS and ISM and its interpretation
- Pertinent EU legislation on maritime security
- Role of EU & EMSA
- Role and duties of SSO, PFSO and CSO
- Responsibilities of Contracting Governments (port & flag States)
- Port Security management (port organisation, committees, statement of compliance, etc.)
- Ship security records, documentation and compliance
- Security training, drills and exercises
- Security in the supply chain
- Training requirements
- Cyber security.

TITLE	ISPS CODE – ADVANCED TRAINING ON SHIP SECURITY
DURATION	3 days
AUDIENCE	This training session is designed for officials of the maritime administrations involved in the implementation and monitoring of the EU legislation related to ship security, both at the central administrations and in the field (as flag State inspectors, or duly authorised officers) with a reasonable level of knowledge and experience in the field of ship security matters.
	Pre-course material in MaKCs

LEARNING OBJECTIVES

The aim of the course is to develop a practical approach to the requirements of ship security issues in relation to the application of the international and EU legislation. Participants will get a better understanding of the main role and responsibilities of the flag State administrations as with regards to ship security through cases studies and to share their experience and problems encountered during the implementation.

KEY TOPICS

- SOLAS Convention and ISPS Code requirements
- Regulation (EC) No 725/2004 – EU additional requirements for ships
- Member State additional requirements for maritime security
- Alternative security agreements
- Equivalent security arrangements
- Risk assessment
- Ship security plan - approval
- Amendments to ship security plans
- Test the effectiveness of the SSP
- Verification & certification
- Delegation of tasks to Recognised Security Organisations (RSOs)
- Monitoring RSOs
- Control and compliance measures
- Pre-arrival security information
- Exemption of Pre-arrival security information
- SSO and CSO responsibilities
- 2010 STCW Manila Amendments - Certificates of Proficiency
- Communication
- Ship Security Level & Ship Security Alert System
- Drills and Exercises
- Practical exercises.

**NEW!**

<b>TITLE</b>	<b>ISPS CODE – ADVANCED TRAINING ON PORT FACILITY SECURITY</b>
<b>DURATION</b>	3 days
<b>AUDIENCE</b>	This course is designed for officials monitoring the implementation of EU legislation relating to port facility security at central administration level and in the field as authorised officers.



Pre-course material in MaKCs

**LEARNING OBJECTIVES**

The aim of the course is to develop a practical approach to the requirements of port facility security issues in relation to the application of international and EU legislation. Participants will get a better understanding of the main role and responsibilities of administrations with regards to port facility security through case studies, sharing their experience and problems encountered during implementation.

**KEY TOPICS**

- SOLAS Convention and ISPS Code requirements
- Regulation (EC) No 725/2004 EU - Additional requirements for port facilities
- Member State additional requirements for maritime security
- Alternative security agreements
- Equivalent security arrangements
- Port Facility Security Assessment (PFSA)
- Port Facility Security Plan (PFSP)
- Amendments to PFSPs
- Test the effectiveness of the PFSP
- Delegation of tasks to Recognised Security Organisations (RSOs)
- Port Facility Security Officer (PFSO)
- Communication
- Port facility security level
- Declaration of Security (DoS)
- Pre-arrival security information
- Drills and exercises
- Practical exercises.

## MARINE ENVIRONMENT

The aim of these courses is to support the implementation of EU legislation on marine environment issues and to encourage the exchange of best practices among Member States.

The training also provides practical insight into the enforcement of relevant EU marine environment legislation and into the specifics of International Conventions.

The courses consist of theory, case studies and working groups which have the purpose of broadening the participants' knowledge of marine environment legislation.

They bring the participants together to work collaboratively and to share their own experience.

The training session on THETIS-EU gives participants an overview of the system. They are given the opportunity to try out the system following pre-defined exercises covering the main functionalities.

- **THETIS-EU**
- **TRAINING FOR INSPECTORS ON EU ENVIRONMENTAL LEGISLATION NOT COVERED BY INTERNATIONAL CONVENTIONS**
- **ADVANCED TRAINING ON DIRECTIVE 2005/33/EC SULPHUR COMPLIANCE & ENFORCEMENT & DIRECTIVE 802/2016/EC SULPHUR CONTENT OF MARINE FUELS**
- **TRAINING ON BALLAST WATER MANAGEMENT CONVENTION**
- **TRAINING FOR INSPECTORS ON PORT RECEPTION FACILITIES DIRECTIVE**
- **TRAINING ON EMSA GUIDANCE FOR LNG BUNKERING PORT AUTHORITIES & ADMINISTRATIONS**
- **TRAINING ON INVENTORIES OF HAZARDOUS MATERIALS ON BOARD SHIPS**
- **TRAINING ON REGULATION 2015/757 MONITORING, REPORTING & VERIFICATION OF CO<sub>2</sub> EMISSIONS (MRV)**



<b>TITLE</b>	<b>THETIS-EU</b>
<b>DURATION</b>	2 days
<b>AUDIENCE</b>	This course is designed specifically for THETIS-EU national administrators and regular end users (inspectors).
<b>RECOMMENDED PRE-REQUISITE</b>	For sulphur inspectors, a good understanding of Directive 1999/32/EC as amended and of implementing Decision (EU) 2015/253 as amended. For PRF Inspectors, a good understanding of Directive 2000/59/EC as amended.

## LEARNING OBJECTIVES

This course gives participants an overview of the THETIS-EU system. It also addresses specific functionalities where misunderstandings and mistakes are more common. It also enables participants to replicate the training in their Member State for colleagues unable to attend the training delivered by EMSA. By understanding the system better, users also improve their knowledge on the relevant legal framework enabling the Member State to comply with the governing directives.

## KEY TOPICS

- Pre-boarding
- Alert messages
- Processing an inspection on a single regime
- Processing an inspection on multiple regimes
- Managing Member State details (for National Administrators)
- Managing users (for National Administrators)
- Other specific topics for each regime shall also be covered, depending on the scope of the training.

TITLE	TRAINING FOR INSPECTORS ON EU ENVIRONMENTAL LEGISLATION NOT COVERED BY INTERNATIONAL CONVENTIONS
DURATION	2 days
AUDIENCE	This course is primarily addressed to inspectors or officials of competent authorities in charge of the enforcement of EU marine environmental legislation which is not covered by the International Conventions and therefore falling outside regular Port State Control (PSC) regimes.
RECOMMENDED PRE-REQUISITE	EU Marine Environmental Legislation

LEARNING OBJECTIVES

Participants will be given practical insight into the enforcement of relevant EU marine environmental legislation and, where relevant, an understanding of the peculiarities and differences with PSC. In addition they will get a better understanding of the enforcement of EU legislation on pollution prevention from ships through the practical examples presented by Member States.

KEY TOPICS

- Introduction to enforcement
- Control by the Port State and PSC
- Sulphur inspections
- PSC on ship recycling
- Enforcement in relation to greenhouse gases
- Enforcement in relation to Port Reception Facilities
- Practical exercise.

TITLE	ADVANCED TRAINING ON DIRECTIVE 2005/33/ EC SULPHUR COMPLIANCE & ENFORCEMENT & DIRECTIVE (EU) 2016/802 SULPHUR CONTENT OF MARINE FUELS
DURATION	2 days
AUDIENCE	This training is addressed to officials from the Competent Authorities within the Member States already authorized or that may be authorized to verify compliance with the provisions of Directive (EU) 2016/802 ("Sulphur inspectors" as defined in Article 2 of Commission Implementing Decision (EU) 2015/253)



Pre-course material in MaKCs




## LEARNING OBJECTIVES

Participants learn about the relevant provisions of the Sulphur Directive and will develop knowledge on its enforcement from a practical point of view. They will also gain an insight into the inspection of ships in order to verify compliance with the Directive, as well as learn alternative compliance methods such as the use of emission-cutting technologies or alternative fuels.

## KEY TOPICS

- MARPOL Annex VI and the Sulphur Directive
- Sulphur inspections
- Inspection of ships with or without abatement method
- Sampling from the fuel oil service system
- Analysis of sealed bunker samples
- THETIS-EU
- Workshops, or multiple choice tests and practical examples from Member States will help participants understand more about the enforcement of the Sulphur Directive.

NEW!

TITLE	TRAINING ON BALLAST WATER MANAGEMENT CONVENTION
DURATION	1.5 days
AUDIENCE	The training is aimed at existing or new Port State Control and Flag State Officers or officials in the central administration, who are, or will be, responsible for developing and implementing compliance, monitoring and enforcement regimes for the International Convention for the Control and Management of Ships' Ballast Water and Sediments.
	 Pre-course material in MaKCs



LEARNING OBJECTIVES

The training course is primarily intended to provide a general overview of the type approval process, compliance testing for Port State and Flag State Implementation of the IMO’s Ballast Water Management Convention and provides an opportunity to share experiences between Member States.

KEY TOPICS

- Implementation (flag, port and coastal state) of the BWM Convention
- Options for treatment of ballast water
- Preparation for PSC inspection & PSC inspection methods
- Indicative sampling methodologies
- Ballast water analysis of results
- Type approval of BWM systems
- Enforcement exercises
- Ballast water enforcement options following non-compliance.

## NEW!

**TITLE** TRAINING FOR INSPECTORS ON PORT RECEPTION FACILITIES DIRECTIVE

**DURATION** 1.5 days

**AUDIENCE** This training is addressed to officials from national administrations that are responsible for undertaking Inspections to enforce Directive 2000/59/EC.



## LEARNING OBJECTIVES

Participants will have the opportunity to get a deeper knowledge about of EMSA's Guidance for Ship Inspections under the Port Reception Facilities Directive (Directive 2000/59/EC) and EMSA's Technical Recommendations on the Implementation of Directive 2000/59/EC on Port Reception Facilities.

## KEY TOPICS

- Waste reception and handling plans
- Notification and delivery requirements
- Inspection of the delivery of ship generated waste and cargo residues
- Inspections stemming from non-compliance in the previous port
- Inspections of exempted ships and Fishing Vessels
- Cooperation between ports/authorities/Member States
- THETIS-EU.

**NEW!**

<b>TITLE</b>	<b>TRAINING ON EMSA GUIDANCE FOR LNG BUNKERING FOR PORT AUTHORITIES &amp; ADMINISTRATIONS</b>
<b>DURATION</b>	2 days
<b>AUDIENCE</b>	This training is addressed to officials from port authorities who are/will be responsible for permitting, evaluating, approving, certifying, controlling, overseeing, documenting and providing/coordinating response in case of an emergency for LNG bunkering.



**LEARNING OBJECTIVES**

The objectives defined for the EMSA Guidance on LNG Bunkering to assist Port Authorities/Administrations with the necessary elements to develop a harmonized procedure for the evaluation, control and through-life assessment of LNG bunkering projects.

**KEY TOPICS**

- LNG bunkering concepts in the port area
- The role of port authority in LNG bunkering
- Permitting process – role of the competent authorities
- Risk & Safety Assessment – criteria
- LNG bunkering incident reporting.



## NEW!

<b>TITLE</b>	<b>TRAINING ON INVENTORIES OF HAZARDOUS MATERIALS ON BOARD SHIPS</b>
<b>DURATION</b>	1.5 days
<b>AUDIENCE</b>	This training has been developed for staff in Maritime Administrations involved with ship recycling issues.
	Pre-course material in MaKCs



## LEARNING OBJECTIVES

The course will focus on the development, verification and control of Inventories of Hazardous Materials for new and existing ships in the context of Regulation (EU) 1257/2013 on ship recycling & amending Regulation (EC) 1013/2006 and Directive 2009/16/EC.

## KEY TOPICS

- EMSA's "Guidance on the Inventory of Hazardous Materials"
- Development of the Inventory of Hazardous Materials for new & existing ships/Practical issues - challenges
- Verification of the Inventory of Hazardous Materials – the role of ROs
- Inventory of Hazardous Materials - Enforcement.

NEW!

TITLE

TRAINING ON REGULATION 2015/757  
MONITORING, REPORTING & VERIFICATION OF  
CO2 EMISSIONS (MRV)

DURATION

1.5 days

AUDIENCE

The training is addressed to officials of the MSs  
Competent Authorities and Maritime  
Administrations who will be involved in the EU MRV  
Regulation (Regulation 2015/757 of the European  
Parliament and of the Council).



LEARNING OBJECTIVES

The training aims to facilitate the understanding of the EU MRV Regulatory Framework towards a harmonised and effective implementation and enforcement of the Directive. It will also provide the Member State user’s perspective on THETIS-MRV - the dedicated information system in support of the EU MRV Regulation.

KEY TOPICS

- Facilitate understanding of EU MRV regulatory framework
- Effective implementation and enforcement
- Functionalities of THETIS - MRV.



## HUMAN ELEMENT

The aim of these courses is to support the implementation of EU legislation related to seafarers' education, working and living conditions, as well as to encourage the exchange of best practices among Member States.

High level experts from Member States or other bodies/institutions can be invited as speakers to attend the training and share their hands-on experience in the implementation of the Maritime Labour Convention.

The courses on education and certification of seafarers are offered at basic and advanced level and consist of theory, case studies and working groups which are designed to broaden the knowledge of participants on the subject matter, bringing them together to work collaboratively and to share their own experience.

- **MARITIME LABOUR CONVENTION, 2006**
- **COMPREHENSIVE TRAINING ON THE STCW CONVENTION AND CODE**
- **ENHANCE YOUR KNOWLEDGE ON THE STCW CONVENTION AND CODE**

TITLE	MARITIME LABOUR CONVENTION, 2006
DURATION	2 days
AUDIENCE	This course is designed for flag State inspectors and officials from the maritime administrations, both at central level and on the field, dealing with legislation on the working and living conditions of seafarers as well as with the implementation and enforcement of the Maritime Labour Convention (MLC), 2006.



Pre-course material in MaKCs


LEARNING OBJECTIVES

Participants will receive an update on the implementation of the Convention and related EU legislation. Through the exchange of best practices among EU Member States and practical exercises, participants will hear several views on how to tackle and resolve enforcement issues.

KEY TOPICS

- Main issues of the Convention
- EU legislation and the impact on the implementation by Member States
- Need for and role of national provisions
- Examples of national legislation on each Title of the Convention
- Member States’ experience, problems encountered during the implementation, inspection and certification phases
- RO experience & PSC experience after the entry into force of the Convention.



<b>TITLE</b>	<b>COMPREHENSIVE TRAINING ON THE STCW CONVENTION AND CODE</b>
<b>DURATION</b>	4 days
<b>AUDIENCE</b>	This course is addressed to officials that have recently started working on seafarer (STCW) related matters within the national maritime administration and to those wishing to expand their area of expertise on STCW related matters.
	Pre-course material in MaKCs



## LEARNING OBJECTIVES

The course offers participants an analysis of the correlations between the provisions of the STCW Convention and Code and the relevant processes within the maritime administrations and the maritime education and training institutions. It will also provide the opportunity to discuss the impact of the relevant EU Directive.

## KEY TOPICS

- General overview of the structure of the STCW Convention and the STCW Code
- Analysis of the main processes in the maritime administrations and the maritime education and training institutions and their correlation with the relevant provisions in the STCW Convention and Code
- Analysis of the requirements for certification under the Convention together with the relevant standards of competence established in the STCW Code
- Exchange of experience with other participants on the implementation of the Directive implementing the STCW Convention in EU legislation
- Workshops.

NEW!

TITLE	ENHANCE YOUR KNOWLEDGE ON THE STCW CONVENTION AND THE CODE
DURATION	2 days
AUDIENCE	The training session is addressed to maritime administrations' officials and maritime education and training (MET) institution's staff, with at least two years' experience on implementing the STCW Convention and Code, wishing to enhance their expertise on STCW related matters and exchange experience with representatives of other Member States.
RECOMMENDED PRE-REQUISITE	At least two years' experience on seafarer (STCW) related matters within the maritime administrations or the maritime education and training institutions.

LEARNING OBJECTIVES

The course provides participants with an opportunity to further investigate those provisions of the STCW Convention and Code, and the related EU Directive, which may create difficulties to administrations and MET institutions when implementing them. It also offers participants an opportunity to discuss with the representatives of other countries alternative solutions on the implementation of the provisions in the Convention/Directive. At the end of the course, participants will be able to: identify the obligations of a party under the STCW Convention and related EU Directive; and identify opportunities for improvement of the national legislation implementing the Convention/Directive, processes, procedures and methods of work.

KEY TOPICS

- Detailed overview of the Convention and recent amendments, with an emphasis on inconsistencies and lack of clarity in the provisions of the Convention/Directive
- Workshops.


## ACCIDENT INVESTIGATION

The aim of these courses is to support the implementation of EU legislation on marine accident investigation.

The courses also help Member States to establish an effective system for the investigation of marine accidents and to share data among them through the European marine casualty information platform (EMCIP).

- **CORE SKILLS FOR ACCIDENT INVESTIGATORS**
- **ADVANCED CORE SKILLS FOR ACCIDENT INVESTIGATORS**
- **EUROPEAN MARINE CASUALTY INFORMATION PLATFORM (EMCIP)**



TITLE	CORE SKILLS COURSE FOR ACCIDENT INVESTIGATORS
DURATION	5 days
AUDIENCE	This course is designed for junior marine accident investigators who will conduct, or participate in, marine accident safety investigations in accordance with Directive 2009/18/EC.
RECOMMENDED PRE-REQUISITE	As a prerequisite, participants should already have an understanding of the main principles of accident investigation and legislation, including Directive 2009/18/EC and the IMO Casualty Investigation Code.
	Pre-course material in MaKCs


LEARNING OBJECTIVES

The main objective of the course is to extend the knowledge of accident investigation and to present the basic elements of conducting a safety investigation. This highly practical course aims at strengthening the capacity of the participants to carry out marine accident investigation. It covers interviewing witnesses, and analysing human factors and underlying conditions.

KEY TOPICS

- Purpose and key principles of accident safety investigation
- Principles of initial and on-site assessment
- Introduction to principles about human factors
- Principles and practical techniques for witness interviewing
- Practical tools for analysis, development of safety recommendations and report
- Practical accident investigation exercise.

NEW!


TITLE	ADVANCED CORE SKILLS COURSE FOR ACCIDENT INVESTIGATORS
DURATION	5 days
AUDIENCE	This course is designed for accident investigators who conduct, or participate in marine safety investigations in accordance with Directive 2009/18/EC
RECOMMENDED PRE-REQUISITE	As a prerequisite, participants should already have an understanding of the main principles of accident investigation and legislation, including Directive 2009/18/EC and the IMO Casualty Investigation Code.
	Pre-course material in MaKCs

LEARNING OBJECTIVES

Provide advanced level training to accident investigators elements in the process of conducting a safety investigation in accordance with Directive 2009/18/EC.

KEY TOPICS

- Human element
- Investigation analysis
- Investigation Reports including safety recommendations
- Use of EMCIP to support investigation and data analysis
- Best practices on Accident Investigation developed by the PCF.

<b>TITLE</b>	<b>EUROPEAN MARINE CASUALTY INFORMATION PLATFORM (EMCIP)</b>
<b>DURATION</b>	3 days
<b>AUDIENCE</b>	This course is designed for EMCIP users, administrators, managers, investigators and analysts from the Member States' relevant authorities involved in marine casualty investigations as well as potential EMCIP users.
<b>RECOMMENDED PRE-REQUISITE</b>	As a prerequisite, participants should already have a basic knowledge of Microsoft Excel pivot tables and standard internet browsers (e.g. Internet Explorer, Firefox or Chrome).
	Pre-course material in MaKCs

## LEARNING OBJECTIVES

The objective of the training session is to help users become more familiar with the system by introducing the participants to EMCIP data entry and retrieval tools. Furthermore, it presents new developments and enhancements of the database, administration tools and content management portal.

## KEY TOPICS

- Principles related to data entry, data retrieval and extraction
- Practical examples of reporting and retrieving data
- Data extraction and analysis
- Live demonstrations and practical exercises on personal workstations provided by EMSA.

## EU / INTERNATIONAL LEGISLATION

The aim of these courses is to support the implementation of international and EU Maritime legislation and to encourage the exchange of best practices among Member States.

High level experts from the Member States or from other bodies/ institutions can be invited as speakers to attend the training sessions and offer their hands-on experience.

The courses consist of theory and case studies which are designed to broaden the participant's knowledge of the EU maritime legislation, bringing them together to work collaboratively and to share their own experience.

- **EU MARITIME LEGISLATION**
- **EU MARITIME ENVIRONMENTAL LEGISLATION**
- **INSTITUTIONAL TRAINING (EU, EC, EMSA, IMO)**
- **PLACES OF REFUGE FOR SHIPS IN NEED OF ASSISTANCE**
- **LIABILITY AND COMPENSATION**
- **MARINE EQUIPMENT DIRECTIVE (MED)**
- **PREPARATION OF IMSAS**

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**TITLE****EU MARITIME LEGISLATION**

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**DURATION**

4 days

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**AUDIENCE**

This course is geared towards newcomers to maritime administrations and other staff who would like to broaden their knowledge by getting an overview of the EU maritime legislation directly linked to their area of activity.



Also available in MaKCs



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**LEARNING OBJECTIVES**

Participants learn about European maritime legislation and its interaction, similarities and differences with international laws and conventions, as well as the supervision by the relevant European and international institutions/organisations on the enforcement of maritime legislation. Participants will also get a better understanding of the enforcement of EU legislation through the workshops, practical examples from Member States and multiple choice tests included in this course.

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**KEY TOPICS**

- Flag State implementation
- Port State Control
- Marine accident investigation
- Maritime security
- EU environmental legislation
- Liability and compensation
- Vessel Traffic Monitoring and Information System (VTMIS).

TITLE	EU MARINE ENVIRONMENTAL LEGISLATION
DURATION	2 days
AUDIENCE	This course is geared towards officials who recently commenced working within their national administrations and will deal with EU environmental maritime legislation, or who are working on other fields and wish to expand their knowledge.
	 Also available in MaKCs



LEARNING OBJECTIVES

Participants will learn about the relevant EU environmental legislation affecting shipping and its interaction with international laws and conventions and get a better understanding about the key aspects of EU legislation on the prevention of pollution by ships.

KEY TOPICS

- Introduction to key EU marine environment topics & EMSA's role
- Air emissions (special focus on sulphur dioxide emissions)
- Greenhouse gases
- Port Reception Facilities
- Ship recycling
- Prohibition on the use of Organotin Compounds on ships
- Ship source pollution
- Liability & compensation
- Other environmental issues not covered by EU legislation
- Ballast water management
- Emissions of Nitrogen Oxide(s)
- Practical exercise.

**NEW!**

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<b>TITLE</b>	<b>INSTITUTIONAL TRAINING ON EU, EC, EMSA,IMO</b>
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<b>DURATION</b>	1 day
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<b>AUDIENCE</b>	Officials from transport or Maritime Administrations who are responsible for attending meetings of IMO & EU bodies related to maritime issues.
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**LEARNING OBJECTIVES**

This course explains from a practical perspective and in detail the internal administrative structure and role of IMO, EU, EC in relation to maritime transport and the DGs and Council of Ministers, the decision-making process, the European parliament, the law-making process, EMSA what it is and how it works. Participants will also acquire knowledge on how the shipping working party works and the responsibilities of the Member States.

**KEY TOPICS**

- IMO structure, mandatory instruments, the IMO Member State Audit Scheme
- The European Union & The European Commission, structure, competence
- Council of the EU – Shipping Working Party & Member State responsibilities
- Document submission to IMO, Co-ordination
- EMSA, how it works.



NEW!

TITLE	PLACE OF REFUGE FOR SHIPS IN NEED OF ASSISTANCE
DURATION	1 day
AUDIENCE	This course is designed for officials from national administrations and competent authorities who deal with places of refuge as well as for authorities handling alerts.



LEARNING OBJECTIVES

The course gives participants insight into the EU Operational Guidelines on Places of Refuge, EMSA's Maritime Integrated Services and presents some national systems regarding places of refuge.

KEY TOPICS

- EU Operational Guidelines
- EMSA's Maritime Integrated Services
- IMO Guidelines
- VTMS Directive
- Liability and compensation in relation to places of refuge.



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<b>TITLE</b>	<b>LIABILITY AND COMPENSATION</b>
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<b>DURATION</b>	2 days
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<b>AUDIENCE</b>	This course is geared towards officials from national administrations with a basic knowledge of international and European legislation as regards liability and compensation and those working on related issues.
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## LEARNING OBJECTIVES

The course gives participants a solid grounding in the current state of play in liability and compensation, including the applicable legislation both targeting passenger and environmental issues. Member States will share their experience of previous incidents while industry representatives will give their perspective.

## KEY TOPICS

- Convention on Limitation of Liability for Maritime Claims (LLMC)
- International Convention on Liability and Compensation for Damage in Connection with the Carriage of Hazardous and Noxious Substances (HNS) and its 2010 Protocol
- International Convention on Civil Liability for Oil Pollution Damage (CLC) and the International Oil Pollution Compensation Fund (IOPC)
- EU legislation and specifically Directive 2009/20/EC on shipowner insurance for maritime claims and Regulation 392/2009/EC on the liability of passengers at sea in the event of an accident.

TITLE	MARINE EQUIPMENT DIRECTIVE (MED)
DURATION	1,5 days
AUDIENCE	This training is addressed to officials from National Administrations that have either just commenced working on Directive 2014/90/EU repealing Directive 1996/98/EC, or with relevant on-going responsibilities on its enforcement.
	Pre-course material in MaKCs



LEARNING OBJECTIVES

Participants learn about the core principles and the latest developments of the MED Directive. In addition to the common understanding of the main topics, practical examples will be provided to facilitate and encourage interaction with lecturers and discussion among the participants.

KEY TOPICS

- Scope of the New Approach Directives
- Compliance and CE marking
- Conformity assessment procedures
- Notified Bodies (NB)
- Market surveillance
- Tasks and responsibilities of maritime administrations, manufacturers and notified bodies.

**NEW!**

<b>TITLE</b>	<b>PREPARATION FOR IMSAS</b>
<b>DURATION</b>	4 days
<b>AUDIENCE</b>	This training will provide officials from Member States with a comprehensive and objective assessment of how effectively they administer and implement IMO instruments while assisting them to improve their capabilities and overall performance in compliance with the requirements A.1070(28).

**LEARNING OBJECTIVES**

This intensive course is based on resolution A.1067(28) Framework and Procedures for the IMO Member State Audit Scheme and is intended to assist Member States in the process of preparing for the audit under the IMO Member State Audit Scheme (IMSAS), the conduct of an audit and post-audit work by a Member State to address findings from the audit.

**KEY TOPICS**

- Framework of IMSAS & overall strategy
- Member State preparation for the audit
- Flag, coastal & Port State activities
- Audit, finding, reporting & analysis
- Member State corrective actions & follow-up
- Workshops & exercises.

## PORT STATE CONTROL

The aim of these courses is to support the implementation of the New Inspection Regime and to contribute to the harmonisation of inspections carried out by the Paris Memorandum of Understanding.

The Port State Control Officer seminars are cornerstone activities of the Professional Development Scheme adopted by the Paris MoU and serve to implement Article 22 and Annex XI of Directive 2009/16/EC. The courses consist of theory, practical scenarios and working groups which are designed to broaden the knowledge of participants on PSC activities, bringing them together to work collaboratively and to share their own experience.

The training session on the THETIS system gives participants an overview of the system. Participants are given the opportunity to try out the system following pre-defined exercises covering the main functionalities.

- **PORT STATE CONTROL OFFICERS SEMINAR**
- **THETIS**

TITLE	PORT STATE CONTROL OFFICERS SEMINAR
DURATION	4 days
AUDIENCE	This seminar is designed for both newcomers and experienced Port State Control Officers (PSCOs) of the Member States of the Paris Memorandum of Understanding (MoU).
RECOMMENDED PRE-REQUISITE	Before attending this seminar, newcomers have to complete the e-learning modules as per the Paris MoU requirements on training as well as to have carried out at least 15 PSC inspections under supervision. The refresher seminar for experienced PSCOs should be attended every 5 years. However, enrolments can be made provided that a minimum 4 years has elapsed since the last seminar.

LEARNING OBJECTIVES

The seminar helps new PSCOs to become familiar with all of the various Paris MoU procedures that need to be followed before they can conduct inspections. It also gives experienced PSCOs the opportunity to refresh their knowledge on new and existing procedures. The seminars are cornerstone activities of the Professional Development Scheme adopted by the Paris MoU and serve to implement Article 22 and Annex XI of Directive 2009/16/EC.

KEY TOPICS

- Paris MoU and Directive 2009/16/EC on Port State Control, history and evolution
- Scenarios on PSC procedures
- Code of good practice
- MLC, 2006
- ILO 147/P147
- ISM.

TITLE	THETIS
DURATION	2 days
AUDIENCE	This course is geared towards THETIS national administrators and regular end users (inspectors, allocators and supervisors).
RECOMMENDED PRE-REQUISITE	Understanding of Port State Control activity. Good understanding of: PSC Directive 2009/16/EC as amended; Paris MoU procedures; Ropax Directive 1999/35/EC as amended.

LEARNING OBJECTIVES

This course gives participants an overview of the THETIS system. It addresses specific functionalities where misunderstandings and mistakes are more common. It also enables participants to replicate the training in their Member States for colleagues which could not attend the training delivered by EMSA. By understanding the system better, users will also improve their knowledge on the relevant legal framework enabling the Member State to comply with the governing directives.

KEY TOPICS

- Pre-boarding
- Priority messages
- Allocation
- Postponing
- Processing an inspection
- Validating an inspection
- Issuing a Ban Order
- Issuing an Expulsion Order
- Managing Member State details (for National Administrators)
- Managing user (for National Administrators).



## VESSEL MONITORING AND REPORTING

The courses aim to support Member States in the appropriate operation of national and central SafeSeaNet (SSN) systems, and associated databases, and to improve the quality of information reported and exchanged through SafeSeaNet. Training is also provided to users of the EU Long Range Identification and Tracking Cooperative Data Centre (EU LRIT CDC).

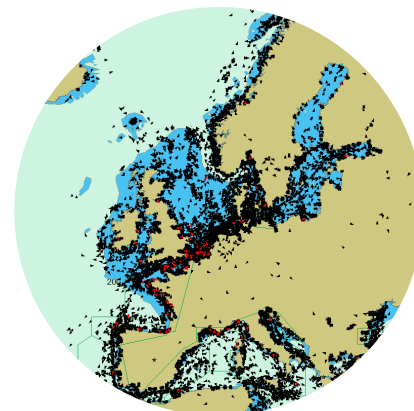
- **SAFESEANET BASIC TRAINING**
- **SAFESEANET ADVANCED TRAINING**
- **USER MANAGEMENT FUNCTIONS ON THE IDENTITY MANAGEMENT PLATFORM (IDM)**
- **SAFESEANET INCIDENT REPORT TRAINING FOR MEMBER STATE AUTHORITIES**
- **SAFESEANET HAZMAT TRAINING FOR MEMBER STATE AUTHORITIES**
- **EU LRIT CDC BASIC TRAINING**
- **EU LRIT CDC ADVANCED TRAINING**



**TITLE** SAFESEANET BASIC TRAINING

**DURATION** 1 day

**AUDIENCE** This course has been developed for operators working in MRCCs, SAR services, VTS Centres, maritime administrations, pollution response services, as well as for PSC Officers, Security Officers and Port Reception Facilities.



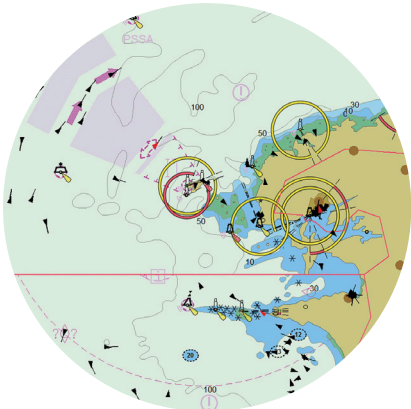
## LEARNING OBJECTIVES

This training course will familiarise participants with SSN and enable them to use SSN proficiently in their day-to-day work. On completion of the course, participants will be able to use the main features and functions of SSN including the SafeSeaNet Ecosystem Graphical (SEG) and Textual Interface (TI).

## KEY TOPICS

- Introduction to SafeSeaNet – background, legal basis
- User interface main features and functionalities
- Sending data to Central SSN
- Link between National Single Windows and national/central SSN to exchange data between Member States
- Incident reporting (create, update, provide feedback)
- PortPlus message framework
- Information on exemptions (Pre-arrival, HAZMAT, Security, Waste)
- Ship Mandatory Reporting Systems
- Request for details: searching for data via the textual/graphical interface (SEG)
- Tailored practical exercises, scenarios, case studies
- Planned future developments
- User feedback.

TITLE	SAFESEANET ADVANCED TRAINING
DURATION	1 day
AUDIENCE	This course has been developed for SSN National Competent Authorities (NCAs) and operators working in MRCCs, SAR services, VTS centres, maritime administrations, pollution response services, as well as for PSC Officers, Security Officers and Port Reception Facilities.
RECOMMENDED PRE-REQUISITE	Participants should have already completed the SSN basic training and have previous operational experience with SSN.



LEARNING OBJECTIVES

This course provides an in-depth training on SafeSeaNet. The course will inform participants on new and planned future developments of SSN and enable the operators to use SSN at an advanced level in their day-to-day work.

KEY TOPICS

- User Interface advanced features and functionalities
- Update on latest release - new features
- Tailored practical exercises, scenarios, case studies
- Planned future developments
- User feedback.

## NEW!

<b>TITLE</b>	<b>USER MANAGEMENT FUNCTIONS ON THE IDENTITY MANAGEMENT PLATFORM (IDM)</b>
<b>DURATION</b>	30 minutes Webinar
<b>AUDIENCE</b>	This course has been developed for National or Local Service Administrators responsible for management of user accounts.




## LEARNING OBJECTIVES

Participants will learn how to manage user accounts in the Identity Management Platform (IdM) related to the administrator's service and Country/Institution/Organisation of control.

## KEY TOPICS

- User access rights, roles, profiles and security
- IdM Dashboard
- Search and View a user account
- Create, Edit and Clone a user account
- Enable, Disable and Delete a user account.

NEW EDITION!

TITLE	SAFESEANET INCIDENT REPORT TRAINING FOR MEMBER STATE AUTHORITIES
DURATION	1 day
AUDIENCE	This course has been developed for Member State authorities responsible for incident report information e.g. MRCCs, SAR services, VTS Centres, maritime administrations, pollution response services.
	Supplementary material in MaKCs




LEARNING OBJECTIVES

This course provides training on how incident report information should be reported and exchanged through SafeSeaNet. Training sessions may be tailored for specific needs, for example for incident reporting in case of a pollution incident or accident. An e-Learning course on how to report a pollution incident or accident in SafeSeaNet is available on EMSA's e-Learning platform MaKCs.

KEY TOPICS

- Introduction to SafeSeaNet
- Incident Report Guidelines
- Information included in SSN for SITREP, POLREP, waste, lost & found objects, etc.
- SSN Textual Interface: send information
- Incident reports (create, update, provide feedback)
- Searching for data via the textual interface
- Searching for Incident Reports
- Relevant voyages
- Searching for data via the graphical interface
- Tailored practical exercises, scenarios, case studies.

<b>TITLE</b>	<b>SAFESEANET HAZMAT TRAINING FOR MEMBER STATE AUTHORITIES</b>
<b>DURATION</b>	1 day
<b>AUDIENCE</b>	This course has been developed for Member State maritime administrations and port authorities using SSN. The e-Learning course is publicly available to the maritime Industry and other stakeholders.
	Supplementary material in MaKCs



## LEARNING OBJECTIVES

On completion, participants will know how information on dangerous and polluting goods (HAZMAT) should be reported in SafeSeaNet. An e-Learning course on how to report HAZMAT in SSN using the Central HAZMAT Database (CHD) is available on EMSA's e-Learning platform MaKCs and on the EMSA web page.

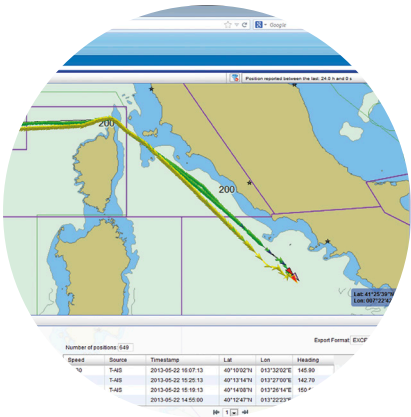
## KEY TOPICS

- HAZMAT – what is reported to SSN
- EU legal requirements – What, When, Who, Where, How
- Reference to IMO legal instruments
- Information flow – shipper, agent, NSW, authorities, SSN
- Request for information flow – another MS, central SSN, national SSN
- Content of the HAZMAT notifications
- Applicable data elements with reference to the SSN xml ref guide and NSW data mapping
- How to report specific dangerous or polluting goods
- Reporting of incidents with HAZMAT cargoes
- Use of databases on dangerous or polluting goods
- Tailored practical exercises, scenarios, case studies
- Summary of future developments
- User feedback.

TITLE EU LRIT CDC BASIC TRAINING

DURATION 1 day

AUDIENCE This course is designed for LRIT NCAs or operators working in MRCCs for SAR and pollution response purposes, VTS centres, maritime administrations, police or border control, customs, PSC Officers and operators in charge of the registration/de-registration of ships within the LRIT system.



LEARNING OBJECTIVES

This course will familiarise participants with the EU LRIT Cooperative Data Center (EU LRIT CDC) and enable them to use the system proficiently in their day-to-day work. On completion, participants will be able to use the main features and functions of EU LRIT CDC and of the EU LRIT Ship Database.

KEY TOPICS

- Brief legislation background from IMO/EU
- Introduction to LRIT concepts and its main components
- The User Web Interface of the EU LRIT Ship Database
- Registration/de-registration of ships
- Quality of data and impact on ship integration
- The User Web Interface of the EU LRIT CDC
- Customising your account
- Searching and filtering functionalities
- Making flag, port and coastal requests
- Making SAR SURPICS and other SAR requests
- Monitoring ships: mandatory reporting, standing orders
- XML interface
- Tailored practical exercises, scenarios, case studies
- User feedback.

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<b>TITLE</b>	<b>EU LRIT CDC ADVANCED TRAINING</b>
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<b>DURATION</b>	1 day
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**AUDIENCE**

This course is designed for LRIT NCAs or operators working in MRCCs for SAR and pollution response purposes, VTS centres, maritime administrations, police or border control, customs, PSC Officers and operators in charge of the registration/de-registration of ships within the LRIT system.

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**PRE-REQUISITE**

Participants should be familiar with the UWIs of the EU LRIT CDC and the EU LRIT Ship Database or have already completed the EU LRIT CDC basic training.

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**LEARNING OBJECTIVES**

This course aims to provide more advanced information on the use of the User Web Interfaces of the EU LRIT Cooperative Data Centre, EU LRIT Ship Database, LRIT IDE Administrative Interface and of the LRIT Data Distribution Plan in the Global Integrated Ship Information Systems (GISIS). It covers specific functionalities which the LRIT NCAs can perform such as managing a coastal standing order and managing users. On completion of the course, participants will be able to use the interfaces at an advanced level in their day-to-day work.

**KEY TOPICS**

- |   |   |
|---|---|
| ■ What is the LRIT IDE?                                     | ■ Monitoring Ship integration and reporting, and using Technical Note 8 |
| ■ LRIT IDE User Web Interface: IDE Administrative Interface | ■ Automatic Alert System and, fleet monitoring by EMSA                  |
| ■ What is the Data Distribution Plan (DDP)?                 | ■ Statistics for LRIT NCAs  |
| ■ DDP User Web Interface                                    | ■ Tailored practical exercises, scenarios, case studies                 |
| ■ What is a Coastal Standing Order?                         | ■ User feedback.  |
| ■ Building your custom Coastal Standing Order               |   |
| ■ User management   |   |

## MARITIME SURVEILLANCE

The courses aim to support Member States, EU Agencies and other bodies on the use of EMSA's maritime information services and tools. Course materials are continuously updated in consideration of system developments.

- **INTEGRATED MARITIME SERVICES (IMS) FOR EU MEMBER STATES**
- **INTEGRATED MARITIME SERVICES (IMS) FOR EU AGENCIES AND OTHER BODIES**
- **CLEANSEANET (CSN) BASIC TRAINING**
- **CLEANSEANET (CSN) ADVANCED TRAINING**
- **COPERNICUS MARITIME SURVEILLANCE SERVICES**
- **REMOTELY PILOTED AIRCRAFT SYSTEMS (RPAS) DATA CENTRE**
- **ADVANCED AUTOMATED BEHAVIOUR MONITORING (ABM)**
- **WEBINARS ON THE SAFESEANET ECOSYSTEM GRAPHICAL (SEG) USER INTERFACE**



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<b>TITLE</b>	<b>INTEGRATED MARITIME SERVICES (IMS) FOR EU MEMBER STATES</b>
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<b>DURATION</b>	2 days + webinars for selected topics
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<b>AUDIENCE</b>	This course is designed for maritime surveillance operators, existing or potential users of the Integrated Maritime Services (IMS) for MS and authorities/organisations executing functions in the maritime domain.
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## LEARNING OBJECTIVES

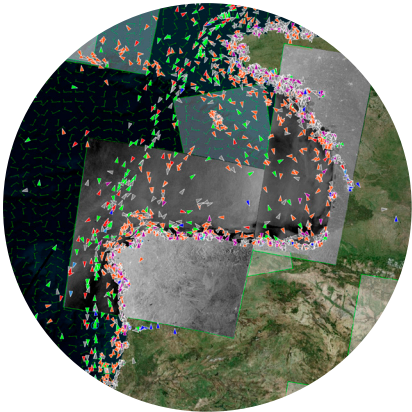
This course provides advanced training on Integrated Maritime Services (IMS) data sets including ship positions, Earth Observation (EO) products, and additional tools. The training includes hands-on work on the SafeSeaNet Ecosystem Graphical (SEG) interface, familiarization with the general layout (navigation, icons, clustering), main features and functions and the Mobile App.

Participants will learn how to: identify and track vessels; manage vessels of interest list; perform historical vessel tracks over large areas and long time periods; track potential polluters; identify illicit or specific vessel behaviour; use EO data and products for maritime surveillance; use Automatic Behaviour Monitoring tools in various operational scenarios; use IMS services for emergency response to pollution events or for search and rescue.

## KEY TOPICS

- IMS data sets
- IMS access rights and data permissions
- SEG interface and Mobile App
- EO data for maritime surveillance
- ABM alerting
- Practical scenarios.

TITLE	INTEGRATED MARITIME SERVICES (IMS) FOR EU AGENCIES AND OTHER BODIES
DURATION	1-2 days
AUDIENCE	This course is tailored for participants from EU Agencies and stakeholders that wish to learn about the available services, data products, system-to-system and user application interfaces available from EMSA.



LEARNING OBJECTIVES

This course provides an overview of EMSA's Integrated Maritime Services for EU Agencies and other bodies. Integrated maritime services include maritime border control support for the European Border and Coast Guard Agency (Frontex), fisheries monitoring support for European Fisheries Control Agency (EFCA), counter-narcotic operations support for MAOC-N, anti-piracy support for EU NAVFOR operations and support for EU law enforcement agency EUROPOL. On a case-by-case basis potential new stakeholders may request training on EMSA services and systems. On completion of the course, participants will be able to use the system in their day-to-day work.

KEY TOPICS

- Overview of Integrated Maritime Services for EU Agencies and other bodies, background, legal basis
- Data access rights policy & conditions of use
- Ship position data sources
- Earth Observation data sources
- Vessel Detection Service (VDS)
- Behaviour analysis, risk assessment, classification of non-compliant targets, intelligence led information
- SafeSeaNet Ecosystem Graphical (SEG) User Interface - main features and functionalities
- Specific functionalities (E.g. Area Centric Query, Vessel Track Query, Integrated Ship Profile Datasheet (ISPD), Automated Behaviour Monitoring (ABM) and SAR SURPIC
- Tailored practical exercises, scenarios, case studies
- Summary of the future developments
- IMS mobile App.

<b>TITLE</b>	<b>CLEANSEANET (CSN) BASIC TRAINING</b>
<b>DURATION</b>	1-2 days
<b>AUDIENCE</b>	This course is designed for officers working in MRCCs, VTS Centres, maritime administrations and pollution response services that are beginning to use the CleanSeaNet service or would like to refresh their knowledge of the service.



## LEARNING OBJECTIVES

This course will familiarise participants with the main components of the CleanSeaNet service and how to use the service proficiently in their day-to-day work. On course completion, participants will be able to use the main functions and features of CSN user interface, identify potential polluters by querying AIS data and CSN detections in the graphical interface, understand the alert report and provide feedback on the service using the feedback form.

## KEY TOPICS

- Introduction to CleanSeaNet
- CleanSeaNet statistics, reporting & service chain  
EMSA role and contribution: planning, ordering  
Duty officer role and contribution
- Basics of Synthetic Aperture Radar (SAR) image analysis
- Oil Spill & Vessel Detection Service
- SafeSeaNet Ecosystem Graphical (SEG) User Interface - main features and functionalities
- SafeSeaNet Ecosystem Graphical (SEG) - specific functionalities
- Tools for polluter identification
- CleanSeaNet feedback form & alert report
- Tailored practical exercises, scenarios, case studies.

TITLE	CLEANSEANET (CSN) ADVANCED TRAINING
DURATION	1-2 days
AUDIENCE	This course is designed for CSN National Competent Authorities (NCAs) and officers working in MRCCs, VTS Centres, maritime administrations and pollution response services with operational experience of CSN that are involved in User Management, Planning and/ or Alert Configuration.



LEARNING OBJECTIVES

This course offers training related to specific tasks and issues for CSN NCAs and advanced users of CSN including user configuration management, alert report configuration, satellite image planning procedures and use of CSN as evidence in court for prosecution of polluters.

KEY TOPICS

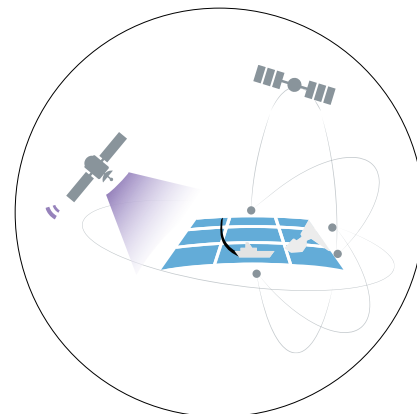
- Data policy and access rights
- User management, principles and configuration
- Satellite image planning and procedures, coordination with assets for in situ verification
- Alert configuration
- New or planned functionalities
- CSN statistics for Member States.

## NEW!

**TITLE** COPERNICUS MARITIME SURVEILLANCE (CMS) SERVICES

**DURATION** 2 days

**AUDIENCE** This training course is aimed at operational users of the CMS service. Participants will be required to do hands-on exercises and case studies, share their knowledge and explore how the service can be improved to better meet user needs.



## LEARNING OBJECTIVES

The overall objective of the course is to enable participants to understand the benefits, constraints and limitations of different products available through the Copernicus Maritime Surveillance (CMS) service. The service is based on the provision of satellite EO (SAR and optical) data and related value added products. The training will provide experience in accessing and using the data and information that is available through the web user interface. Participants will become familiar with the different procedures for ordering and cancelling services depending on tasking time and service type.

## KEY TOPICS

- Overview of the Copernicus Programme
- Introduction to the Copernicus Maritime Surveillance (CMS) service
- Earth Observation products for CMS
- Main characteristics of SAR and optical missions
- Use cases from different areas of activity
- CMS Product Catalogue : resolution classes; basic products; value added products; fusion products
- Earth Observation Operational Procedures: operational requirements, service requests
- Challenge scenario IMS: Exercise using SEG.

NEW!

TITLE	REMOTELY PILOTED AIRCRAFT SYSTEMS (RPAS) DATA CENTRE
DURATION	2 days
AUDIENCE	This course is intended for Member states which are users of the RPAS Services provided by EMSA. The course targets the staff involved on a tactical and operational level which will be using the RPAS Data Centre.



LEARNING OBJECTIVES

This course gives the participants the necessary knowledge to effectively use the RPAS Data Centre within an operational context. Participants will be able to plan and monitor missions within a deployment, run a live mission, replay past missions and export mission data as needed.

KEY TOPICS

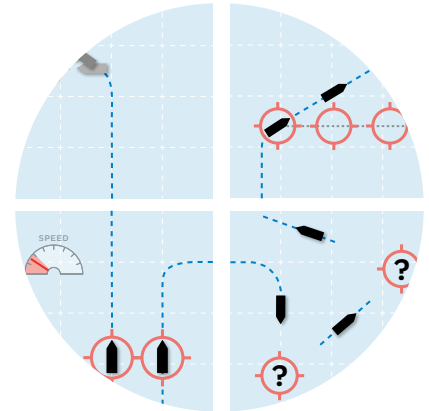
- RPAS Services provided by EMSA
- RPAS Data Centre as the single user interface of RPAS Services
- Live RPAS in-situ data, including video from the RPAS
- Post mission analysis.

## NEW!

**TITLE** ADVANCED AUTOMATED BEHAVIOUR MONITORING (ABM)

**DURATION** 2 days

**AUDIENCE** Maritime Surveillance operators, users of the Integrated Maritime Services for MS, Risk Analysts



## LEARNING OBJECTIVES

This course offers an advanced knowledge on the IMS tool Automated Behaviour Monitoring (ABM) ; providing the most popular operational scenarios, allowing the user to become independent ABM administrator and using ABM capabilities to enhance maritime domain awareness.

## KEY TOPICS

- What is the ABM tool;
- How to request the ABM service. Restrictions.
- Available ABMs.
- Administrator tool: How to set-up an ABM
- Overview of the ABM algorithms
- Most popular operational scenarios and algorithms settings
- Use cases and best practices.

NEW!

TITLE	WEBINARS ON THE SAFESEANET ECOSYSTEM GRAPHICAL (SEG) USER INTERFACE
DURATION	30 minutes webinars on one key topic
AUDIENCE	Users of Integrated Maritime Services (IMS), SafeSeaNet (SSN), EU LRIT CDC, CleanSeaNet (CSN)



LEARNING OBJECTIVES

These webinars are provided to support the training of users on the main SEG functions and available data sets.

KEY TOPICS

- Introduction to the SEG
- Layers Management – saving layers
- Preference settings related to vessels
- Vessel Track Query – basic and advanced
- Area Centric Query
- Advanced Search
- Smart Search function, saving popular searches
- Favourites (Vessels, Areas, Points)
- Earth Observation data, metocean data sets.





## POLLUTION PREPAREDNESS AND RESPONSE


EMSA offers a range of services to help Coastal States around Europe respond to marine pollution from ships and oil and gas installations. The services offered can be described as a “toolbox” from which requesting States can pick and choose the response means most suitable for their immediate needs.

EMSA offers hands-on training on the Equipment Assistance Service and some training related to marine pollution response according to recommendations from the Consultative Technical Group for Marine Pollution Preparedness and Response (CTG MPPR). The training courses under the CTG MPPR focus on the exchange of best practices and the sharing of practical experience between the countries.

- **HANDS-ON TRAINING ON THE EQUIPMENT ASSISTANCE SERVICE (EAS)**
- **TRAINING ON THE USE OF SURVEILLANCE SYSTEMS FOR MARINE POLLUTION DETECTION AND ASSESSMENT**
- **TRAINING ON OIL SPILL SAMPLING**



**NEW!**

<b>TITLE</b>	<b>HANDS-ON TRAINING ON THE EQUIPMENT ASSISTANCE SERVICE (EAS)</b>
<b>DURATION</b>	3 days
<b>AUDIENCE</b>	The target audience for this practical hands-on training are counter-pollution authorities from the Member States directly involved in response operations with the following profile: equipment operators who may deal with the equipment on board national vessels of opportunity, team leaders, oil pollution response trainers, vessel captains and members of vessel crew.
	Pre-course material in MaKCs



**LEARNING OBJECTIVES**

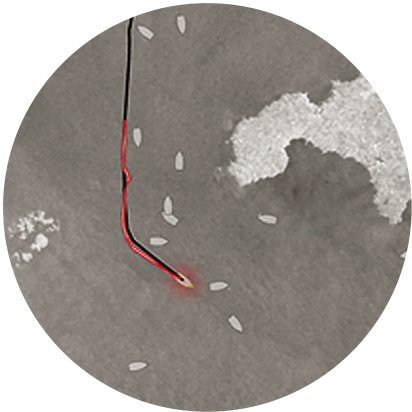
The Equipment Assistance Service (EAS) consists of stand-alone oil pollution response equipment stockpiles in selected areas around Europe. This service complements the response capacity available through EMSA's network of oil spill response vessels. The EAS equipment is on stand-by, ready to be mobilised around-the-clock to anywhere in European waters and shared sea basins.

The aim of the hands-on training is to demonstrate and practice the use of selected equipment sets at the stockpile location, in order to build expertise among the EAS users.

**KEY TOPICS**

- Briefing onsite and familiarization with the equipment
- Practical training on the deployment, operation and retrieval of selected equipment sets.

TITLE	TRAINING ON SURVEILLANCE SYSTEMS FOR MARINE POLLUTION DETECTION AND ASSESSMENT
DURATION	2.5 days
AUDIENCE	This course is geared towards officers from Member States with limited experience in the operational use of surveillance systems for marine pollution detection and assessment. The training covers both operational and legal aspects of maritime surveillance and its primary target group is aerial operators.



LEARNING OBJECTIVES

This training is organised by EMSA every 1-2 years in agreement with the Member States under the CTG MPPR framework. The course offers an overview of the aerial and satellite surveillance systems used in the detection and assessment of marine pollution, focusing particularly on polluter identification and collection of evidence for prosecution. It focuses on the exchange of best practices and the sharing of practical experience between the Member States and usually includes a visit to a national air base to view the surveillance equipment used.

KEY TOPICS

- Legal aspects: overview of international legislation and use of surveillance as evidence
- Regional Agreement handbooks
- Marine pollution: sources, types of pollution at sea, effects on the environment; introduction to generation of oily waste on board vessels
- Characterising oil at sea and assessing volumes
- Airborne surveillance techniques
- Combining different information sources: satellite surveillance; AIS/vessel tracking; surveillance flights; modelling
- Collection of evidence; aerial surveillance and other tools
- Use of aircraft and satellite in support of oil spill response operations
- Visit to airbase.

**NEW!**

**TITLE**

**TRAINING ON OIL SPILL SAMPLING**

**DURATION**

2 days

**AUDIENCE**

The target audience are counter-pollution authorities and administrations from the Member States involved in oil spill sampling, such as experts (field and laboratory) conducting oil spill sampling or dealing with oil spill samples and experts from maritime police, enforcement organisations or investigators.



**LEARNING OBJECTIVES**

This training is organised by EMSA every 2 years in agreement with the Member States under the CTG MPPR framework. The course focuses on the exchange of best practices on oil spill sampling and the sharing of practical experience between Member States. It addresses operational, practical and legal elements of oil spill sampling and associated procedures, and includes practical exercises and demonstration of oil spill sampling kits used across Europe.

**KEY TOPICS**

- Introduction to oil spill sampling, existing guidelines and associated issues (sample labelling & transport)
- Oil spill sampling procedures (sampling on-shore, at-sea, on board vessels)
- Oil spill sampling kits
- Legal elements of oil spill sampling
- Practical exercises
- Case studies.

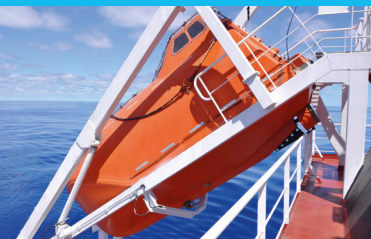






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## ABOUT THE EUROPEAN MARITIME SAFETY AGENCY

The European Maritime Safety Agency is one of the European Union's decentralised agencies. Based in Lisbon, the Agency's mission is to ensure a high level of maritime safety, maritime security, prevention of and response to pollution from ships, as well as response to marine pollution from oil and gas installations. The overall purpose is to promote a safe, clean and economically viable maritime sector in the EU.

[emsa.europa.eu](https://emsa.europa.eu)

### Get in touch for more information

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