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Course Guide

CleanSeaNet Course – Advanced level

Type of training: Presential

Date: 15 October 2026





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1. Course Guide

1.1 Course aim - overview

This course was designed and developed by the EMSA Academy to provide participants with the necessary knowledge and skills on CSN service. The course is targeted at Advanced level, thus duty officers with experience using the CSN service or managers responsible for the coordination of CSN service within its national administration including requesting EMSA's support for emergencies, exercises and operations.

1.2 Nominations

Learners are nominated by CSN National Competent Authority for each of coastal state.

1.3 Learning Objectives

At the end of this course, the participants should be able to:

For Learning area Adv-3 - CleanSeaNet service for experienced users

ILO 1 – Name the main elements of the CSN service legal framework

ILO 2 – Recall the role of the CSN User Group

ILO 3 – Identify the scope of the CSN Conditions of Use

ILO 4 – Summarize the main distinct intellectual property rights applicable to CSN data

ILO 5 – Identify the main principles of spatial resolution, images acquisition and delivery times

ILO 6 – Remember the key aspects of image planning

ILO 7 – Describe how to activate the EMSA's Earth Observation services support during emergencies – use case

ILO 8 - Describe how to request CSN services support service during exercises and operations – use cases

ILO 9 – Interpret CSN alert reports and alert area – use case

ILO 10 – Recall the concept of priority and edit functions in the context of the CSN feedback form


For Learning area Adv-4 - Advanced use of CSN operation in SEG

ILO 11 – Use operationally the alert report

ILO 12 – Identify the different user roles

ILO 13 – Provide feedback in the system

ILO 14 – Identify potential polluters by querying AIS data and CSN detections in SEG

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ILO 15 – Analyse CSN detections

ILO 16 – Demonstrate the use of SEG/CSN operation advanced functions

1.4 Pre-requisites for participants

Participants should follow the requirements of paragraph 1.1 of the document. They are required to have an adequate level of spoken and written English which allows them to actively engage with the group.

1.5 Cost

Participation in this training course is free of charge.

1.6 Language

The course is conducted in English.

1.7 Learning approach and teaching method

The EMSA Academy aims to support its beneficiaries' organisations and individuals to build knowledge, skills and competence. The teaching methods used in this training course are a combination of instructor led (in person delivery) lectures, live demonstrations of the system, combined with practical exercises for the participants.


1.8 Learning activities

The course will be delivered in presential mode. However, all links will be shared through the MaKCs platform. To be enrolled in the course it is necessary to have access to the EMSA Portal <https://portal.emsa.europa.eu/>.

Participants must verify in advance their possession of the credentials or request them timely. Participants may use their own username and password to access the SafeSeaNet Ecosystem Graphical (SEG) interface during the training, if they have existing credentials. If participants do not have access to the SEG, EMSA will provide training accounts to participants during the training.

1.9 Material

All training materials, learning resources, exercises, and certificates will be available to each participant on MaKCs.

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2. Course Structure

2.1 “Get Started” session.

Not applicable.

2.2 Course duration

The course will have a duration of 1 day for a total training duration of 7 hours (morning and afternoon sessions). Please refer to the detailed course Agenda in Annex I of this document. The training course will be at EMSA's premises.

2.3 Recordings of live online sessions (if applicable)

Not applicable.

2.4 Personal data protection

The processing of personal data is regulated by Regulation (EU) 2018/1725 of the European Parliament and of the Council of 23 October 2018. The rules are available [here](#).


2.5 Assessment

Assessment techniques will be applied to ensure that the intended learning outcomes (ILOs) have been achieved and participants demonstrate that knowledge or skills were gained. There will be a multiple-choice quiz to assess learning area 1 and practical exercises to assess learning area 2.

In order to receive an EMSA Training Certificate, the participant must achieve a pass mark for the quiz of 70% and complete all practical exercises. If a participant does not successfully pass, they may still receive the Certificate of Attendance.

2.6 Post-training evaluation

At the end of the training the participants are required to complete the post training evaluation form. The purpose of the evaluation is twofold, as participants will be able to reflect on their own learning experience while EMSA will gather their feedback to improve the quality of the course.

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2.7 Certificate

Subject to a successful verification that the participant has achieved the required learning outcomes, an EMSA Certificate of Training will be provided. Otherwise, the participant will receive an EMSA Certificate of Attendance.

2.8 Required hardware

EMSA will provide a PC for each participant in the EMSA Training Room.

2.9 Required software

EMSA will provide the required software.

2.10 Procedures for suggestions and complaints

Any suggestions, incidents or complaints should be sent to the EMSA Academy helpdesk at academy.helpdesk@emsa.europa

2.11 Cancellation or postponement

In case of cancellation or postponement of the course by EMSA, the EMSA Training Coordinator will notify the registered participants, or if applicable, the registered participants will be notified by their nominating Maritime Administration or National Competent Authority. In case registered participants need to cancel their participation, they should contact the EMSA Training Coordinator or their national contact point.

2.12 Point of Contact


For further information on this training course please contact the EMSA Academy helpdesk at academy.helpdesk@emsa.europa .

3. Course Outline

3.1 Training content

3.1.1 Introduction

CleanSeaNet is the European satellite-based service for detection of possible pollution incident and vessel developed and operated by EMSA since 2007. The service offers assistance to participating States for identifying and tracing pollution on the sea surface, monitoring accidental pollution during

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emergencies and contributing to the identification of polluters. Since 2007, EMSA has been delivering a presential course on CleanSeaNet to operational users of the service, such as duty officers working in Maritime Rescue and Coordination Centres (MRCCs), pollution response services and maritime Authorities. The course was highly appreciated as per the feedback received from MSs, Iceland and Norway.

3.1.2 Aim

This Training aims to provide participants with the necessary knowledge and skills on CSN service to designated duty officers with experience using the CSN service or managers responsible for the coordination of CSN service within its national administration including requesting EMSA's support emergencies, exercises and operations.


3.1.3 Scope

The course will cover the following areas: 1. CleanSeaNet service for experienced users and 2. Advanced use of CSN operation in SEG.


3.1.4 Syllabus

The course contains the following syllabus.

#	Intended Learning Outcome	Syllabus (topic content)
Learning area Adv-3: CleanSeaNet service for experienced users		
1	To name the main elements of the CSN service legal framework	Directive 2005/35/EC on ship source pollution and introduction of penalties, as amended
2	To recall the roles of the CSN User Group	Governance of CSN: User Group and Conditions of Use
3	Identify the scope of the CSN Conditions of Use	CSN Conditions of Use
4	Summarize the main distinct intellectual property rights applicable to CSN data	CSN data access policy rules

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5	Identify the main principles of spatial resolution, images acquisition, and delivery times	CSN image acquisition procedure and processing chain
6	Remember the key aspects of image planning	EO team planning procedure
7	Describe how to activate the EMSA support during emergencies – use case	Activation of EMSA's contingency plan procedure
8	Describe how to request CSN support service during exercises and operations – use case	CSN activation procedure for exercises and special operations
9	Interpret CSN alert reports and alert area – use case	Information displayed in the CSN alert report such as centre position of the possible pollution incident, its width, area and length, meteorological information, identification of possible polluter, alert level, and concept of alert area
10	Recall the concept of priority and edit functions in the context of the CSN feedback form	CSN feedback form: concept of priority. How to edit information previously introduced in the feedback form.
Learning area Adv-4: Advanced use of SEG/CSN service		
11	Use operationally the alert report	SEG platform/CSN operation
12	Identify the different user roles	SEG platform/Identity Manager
13	Provide feedback in the system	SEG platform/CSN operation
14	Identify potential polluters by querying AIS data and CSN detections in SEG	SEG platform/CSN operation

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15	Analyse CSN detections	SEG platform/CSN operation
16	Demonstrate the use of SEG/CSN operation advanced functions	SEG platform/CSN operation

3.2 Training Course Coordinator(s)

Malgorzata.Nesterowicz@emsa.europa.eu - Senior Project Officer for Capacity Building, Sustainability & Technical Assistance Unit, 1.3

3.3 Subject Matter Expert(s)

Project Officers for Copernicus Maritime Surveillance service, Unit 2.2

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Annex I

CleanSeaNet Course – Advanced Level

Lisbon, 15 October 2026

Module 1 The CleanSeaNet service for experienced users	
Time (UTC+1)	Agenda Item
09:00 – 09:15	Welcome <ul style="list-style-type: none"> ■ Tour de table ■ Outline of Module 1
09:15 – 10:30	The CleanSeaNet service for experienced users (part I) <ul style="list-style-type: none"> ■ CSN legal framework ■ User Group, Conditions of Use, access to data ■ Spatial resolution, acquisition and delivery times (near real time and quasi real time)
10:30 – 10:50	Break
10:50 – 11:45	The CleanSeaNet service for experienced users (part II) <ul style="list-style-type: none"> ■ Request of EMSA's support for emergencies, exercises and operations – use cases ■ CSN alert report, alert area and matrix – use case ■ Feedback form: priority and editing functions
11:45 – 12:00	<ul style="list-style-type: none"> ■ Questions and Answers
Module 2 Advanced use of CSN operation in SEG	
Time (UTC+1)	Agenda Item
13:00 – 13:10	<ul style="list-style-type: none"> ■ Outline of Module 2
13:10 – 14:40	Advanced use of the SEG/CSN operation (part I) <ul style="list-style-type: none"> ■ User management ■ Alert component
14:40 – 15:00	Break
15:00 – 16:30	Advanced use of the SEG/CSN operation (part II) <ul style="list-style-type: none"> ■ Provision of feedback ■ Analysis of possible polluter
16:30 – 17:00	<ul style="list-style-type: none"> ■ Questions and Answers