

Training



International experts in spill preparedness and response



Participants' comments

“ Well organised,
interesting conferences
and high quality training
materials. ”

“ Trainers whose field experience
and practical knowledge
are a real bonus. ”

“ A comprehensive course
with quality teaching. ”

“ A great course that
I would recommend
to my colleagues! ”

“ The quality of the programme,
the lecturers and the deployment sites
was excellent and will be useful to me
for my assignments. ”

“ High quality lecturers, who are
approachable and attentive
to participants' questions. ”

“ Thank you
for your cheerfulness
and availability! ”

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NEW!

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Our method

Training with Cedre is above all the chance to benefit from internationally recognised teaching.

A variety of teaching methods are used to boost the learning process:

- theory lectures
- practical sessions involving equipment deployment on a real oil spill (only at our facilities!)
- feedback from real spills
- tutorials
- tabletop exercises.

Here at Cedre, we select our in-house and external lecturers for their recognised skills and experience in the relevant fields.

Following each course, the participants are given the training materials and supplementary documents (regulations, operational guides, etc.), to refresh and further the knowledge acquired during the course.



Key figures

Over **1,000** people trained each year

Some **60** training actions each year

1,500 hours of lectures and discussions a year, both in the classroom and in the field

Over **20,000** litres of oil released each year for training at our facilities

Representatives of **60** countries across all **5** continents trained

A **6,000** m² man-made beach and a **2,000** m² outdoor test tank

3 languages: French, English and Spanish

Our bespoke courses



For a quote or to register:
contact@cedre.fr

Our standard courses

New



Oil and HNS spill response in surface waters



Oil spill response at sea and on the shoreline



Oil spill response in inland waters



Marine pollution crisis management



Shoreline pollution crisis management



Chemical spill response principles at sea



Aerial observation of pollution at sea

6 themes

- At Cedre, Brest
- One-of-a-kind facilities
- Release of real oil
- A variety of lecturers and trainers
- An ideal networking opportunity

OIL AND HNS SPILL RESPONSE IN SURFACE WATERS

NEW!

With
REAL OIL

AIMS

To obtain the general knowledge needed to implement reactive and efficient response techniques to oil or Hazardous and Noxious Substances (HNS) accidentally spilled in surface waters.

Description

A core part of the course concerns the presentation of the fundamental principles of both oil and HNS response management. This introductory module is essential to understand which strategies and tactics can be defined to mitigate potential spill consequences. Covering the different aspects of response to floating pollutants (e.g. oil, vegetable oil and HNS) in a single course is challenging as it concerns different areas of knowledge. To address this issue and facilitate learning, Cedre strives to develop up-to-date, accessible lectures with practical exercises and demonstrations wherever possible. The course includes hands-on exercises with the release of real floating pollutant at Cedre's technical facilities and a visit of our showroom dedicated to oil & HNS response equipment.

Throughout the course, each trainee can take advantage of specific advice and incident reviews accumulated by Cedre from experiences in the field, expertise developed by the duty team and reviews of the latest technology. The course will also include a theoretical part (lectures), practical demonstrations as well as a table-top exercise.



TARGET AUDIENCE

- Fire-fighters and rescue services, private response teams
- Personnel from administrations, national and local governments
- Oil and chemical industry personnel
- All navigating crews and transport companies concerned by transportation of dangerous goods at sea or in inland waters
- Personnel from port authorities

Content

- Overview of the general principles of spill response
- International framework, codes and conventions on spill prevention
- Oil and HNS behaviour and impacts
- Spill assessment
- Containment and recovery
- Clean-up
- Waste management
- Worksite organisation
- Table-top exercise
- Practical sessions with equipment deployment on the shoreline and on the water

Cedre
Brest
4 to 5
days



Each trainee
can customize
their course
with an optional
specialty

OIL SPILL RESPONSE AT SEA AND ON THE SHORELINE

With
REAL OIL

AIMS

To obtain a concrete understanding and practical knowledge of response strategies, techniques and equipment in case of accidental oil pollution at sea and on the shoreline.

Description

This course is half theory, half practical sessions. Three afternoons are devoted to hand-on exercises involving the release of real oil at Cedre's technical facilities. The final afternoon takes the form of a classroom-based tutorial on the organisation of a clean-up site. The lectures on response techniques and equipment and feedback from past spills are given by specialists from Cedre involved in field response and/or equipment testing.

By the end of the course, participants will be able to define the most appropriate resources for the specific risks at their own site, define operational tactics and procedures and contribute to contingency planning.



TARGET AUDIENCE

IMO level: 2

- Personnel from administrations, national and local governments
- Oil industry personnel
- Shipping company personnel

Content

- Behaviour of oil spilled in the marine environment
- Containment and recovery of oil
- Organisation and crisis management (ICS and IMS)
- Shoreline clean-up site organisation
- Clean-up of different kinds of shores
- Use of dispersants, sorbents and other response products
- Waste treatment and disposal
- Case studies and feedback from past spills
- **Tutorials on the definition and organisation of shoreline response operations**
- **Practical sessions with equipment deployment on the shoreline and on the water**

Cedre
Brest
4 days



The chance to handle different types of equipment at our technical facilities, on real oil

OIL SPILL RESPONSE IN INLAND WATERS

With
REAL OIL

AIMS

To obtain a concrete understanding of response strategies, techniques and equipment in case of accidental oil pollution in inland waters.

Description

This course is half theory, half practical sessions. Two days are devoted to hand-on exercises, first at Cedre's technical facilities, with the release of real oil, then on a river and streams in the natural environment, where participants are tasked with setting up a response site and building custom-made barriers. The lectures on response techniques and feedback from past spills are given by specialists from Cedre involved in field response and equipment testing.

By the end of the course, participants will be able to select appropriate equipment for the specific risks at their site and to define the operational tactics and procedures required for its deployment, as well as participate in the drafting of a contingency plan.



TARGET AUDIENCE

- Fire-fighters and rescue services
- Personnel from the water police, waterway services and river transport companies
- Personnel from port authorities
- Personnel from administrations, national and local governments
- Private response teams

Content

- Behaviour of oil spilled in fresh waters
- Use of sorbents
- Containment and recovery of oil
- Waste storage, transfer and treatment
- Response site preparation and organisation
- Case studies and feedback from past spills
- Practical sessions with equipment deployment on the shoreline and on the water

Cedre
Brest
4 days



*The chance
to handle different
types of equipment
at our technical
facilities,
on real oil
Exercises
in the natural
environment*

MARINE POLLUTION CRISIS MANAGEMENT

AIMS

To obtain knowledge on the spill risks associated with maritime activities, to practice seeking data relating to a spill and to train in crisis management and response to the pollution at sea.

Description

Deliberately geared towards response at sea, this course covers three main themes: the legal and organisational framework, the reasoning method and response strategies. Following three days of lectures, the course ends with a major crisis management exercise run by Cedre, CEPPOL¹ and MRCC Corsen.

By the end of the course, participants will be able to join a crisis command centre and contribute to contingency planning for aspects relating to response at sea.

The lectures are given by specialists from Cedre who are regularly involved in managing emergency situations, naval officers in service and specialised consultants.

¹*Ceppol is the French Navy Centre of Practical Expertise in Pollution Response.*



TARGET AUDIENCE

IMO level: 3

- Naval officers
- Personnel involved in emergency crisis management both at sea and on the shoreline
- Shipping personnel liable to be involved in managing a shipping accident

Content

- Behaviour of substances spilt at sea
- Slick detection
- Decision support systems
- Crisis management (ICS and IMS)
- National and international legal and regulatory aspects (international maritime conventions, etc.)
- At-sea response strategies (dispersion, containment, recovery, response to HNS spills)
- Media communication
- Case studies and feedback from past spills
- 4-hour table top exercise

Cedre
Brest
4 days



Variety
of trainers
Crisis
management
exercise

SHORELINE POLLUTION CRISIS MANAGEMENT

AIMS

To obtain knowledge on the risks and challenges, distribution of resources, missions and responsibilities, funding of response, disputes and legal follow-up and crisis communication.

Description

This course focuses on shoreline response and addresses five main themes: organisation and general principles, information and data required, response techniques and resources, legal and financial aspects and communication. One afternoon is set aside for a roundtable debate on a specific issue or feedback from a recent incident. The course ends with a tutorial on the topic of organising shoreline clean-up operations.

The lectures are given by specialists from Cedre who are regularly involved in managing emergency situations, as well as academics and specialised consultants.

By the end of the course, participants will be able to join a crisis command centre and contribute to contingency planning for aspects relating to shoreline response.



TARGET AUDIENCE

IMO level: 3

- Fire-fighters and rescue services
- Personnel working for administrations, national and local governments who are liable to be in charge of a command centre or play a role in the event of shoreline pollution

Content

- Organisation, sea-land liaising and coordination, role of decision-makers and various departments/agencies, role of international organisations, role of experts, mobilisable resources
- Reasoning method, protection measures, general response principles
- Behaviour and impact of pollutants, public health, shoreline sensitivity, baseline status
- Gathering and exchanging data
- Shoreline response principles, shoreline protection resources, clean-up techniques, worksite organisation, waste management
- Legal provisions and liability regimes, insurance, compensation funds, financial units
- Crisis communication with the media
- Case studies and feedback from past spills
- **Tabletop exercise and roundtable**

Cedre
Brest
4 days



*Roundtable
discussion
or feedback from
past incidents
on a different
theme each year*

CHEMICAL SPILL RESPONSE PRINCIPLES AT SEA

AIMS

To obtain the knowledge required to advise decision-makers on the implementation of efficient emergency measures in the event of a chemical spill.

Description

The lectures are given by in-house trainers with expertise in the field of chemistry and by external speakers specialised in related fields such as toxicology or specialised response to chemical risks (such as naval fire-fighters). To make this course as dynamic as possible, a considerable part of the programme is devoted to equipment demonstrations, operational procedures, role play involving information seeking and feedback from past incidents.

At the end of the course, a tutorial is organised during which the trainees take on the role of decision-makers and must determine the relevant response strategies and techniques based on the information provided.



TARGET AUDIENCE

- Response and management teams of the maritime authorities
- Personnel from administrations, national and local governments
- Fire-fighters and rescue services
- Personnel from port authorities

Content

- Chemical transport and associated risks: regulations on transport, behaviour if released into the environment, impact on humans
- Chemical classification and operational information sources: information gathering, contribution of R&D
- Reflex actions: detection and identification of the pollutant, modelling
- Possible actions on ships, bulk products, containers and packages
- Case studies and feedback from past spills
- Tutorial targeted towards defining emergency measures and response strategies
- Demonstrations of small protection and detection equipment

Cedre
Brest
3 days



*Demonstration
of the equipment
within Brest
naval fire
brigade's
mobile chemical
response unit*

AERIAL OBSERVATION OF POLLUTION AT SEA

AIMS

To obtain practical and operational knowledge of aerial observation of oil pollution at sea.

Description

This course targets civil servants, such as navy and customs personnel, qualified to observe pollution at sea. It is currently closed to all other applicants.

The course comprises three days of theory lectures given by specialists from Cedre, the French Customs pollution expert, air crews, officers in service and specialised legal experts. In addition, one afternoon is devoted to practical exercises based on photographic evidence. Upon course completion, the observers will be able to organise an overflight, efficiently observe and describe pollution, prepare a relevant survey report for the operational managers in charge of assessing the pollution and selecting response strategies. They will also be able to draw up a pollution report.



TARGET AUDIENCE

- Air crews qualified to observe discharges at sea (Navy, Customs, etc.)
- Personnel from foreign administrations
- Private sector personnel in charge of aerial surveillance

Content

- Types of oil and their evolution at sea
- Bonn Agreement Oil Appearance Code and quantity assessment
- Spill observation, description and quantification
- Natural phenomena mistaken for spills
- Remote sensing
- Legal aspects
- Oil management on board merchant ships
- Vessel control

Cedre
Brest
1 to 3
days



*Discussion session
with the Chief
Prosecutor
of Brest*

Who we work with

Our members



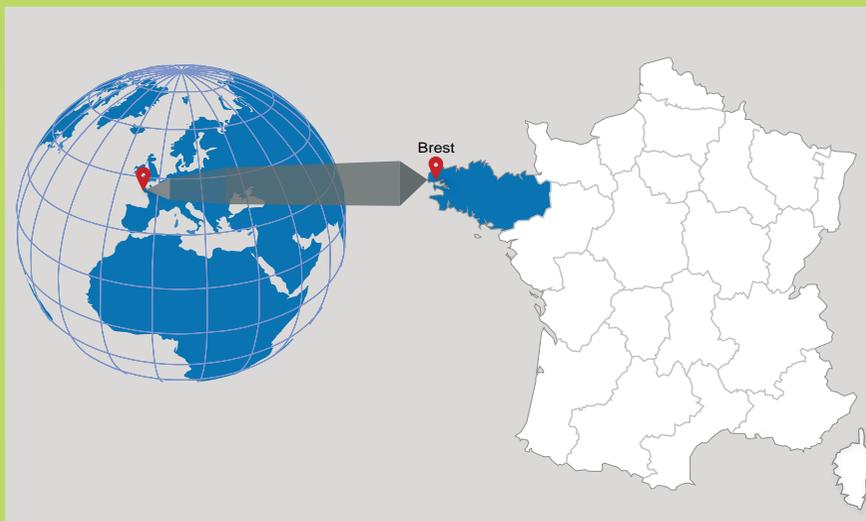
Our clients



Cedre

INFO

Got a question about a course?
Want to register?
Planning team training?
Get in touch!
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facilities at
cedre.fr