Training





International experts in spill preparedness and response

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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



- Real oil at Cedre

- Simulants at your facilities





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

Our standard courses



Oil and HNS spill response in surface waters NEW!





Oil spill response at sea and on the shoreline



Oil spill response in inland waters



Marine pollution crisis management



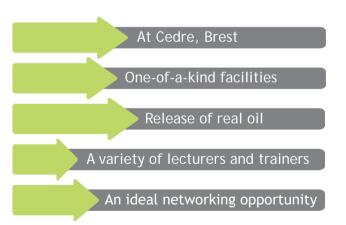
Shoreline pollution crisis management



Chemical spill response principles at sea



Aerial observation of pollution at sea



Our world-class equipment and facilities

OUTDOOR TEST TANK

Real oil can be released and equipment deployed in our outdoor test tank in order to perform trials or run practical training.

MAN-MADE BEACH AND WATER BODY

These facilities provide the opportunity for training and response equipment deployment on a variety of shoreline substrates (sand, riprap, pebbles, quaysides, outfall pipes, etc.). Experience a full-scale oil spill simulation!



Our 300 m² showroom constitutes a valuable complement to the theory lectures provided by Cedre's trainers and offers the advantage of exhibiting at a single location all the most commonly used spill response equipment: portions of booms, mechanical and oleophilic skimmers and their pumps, trawlnets, sorbents, walk-behind sand screeners, waste storage tanks, etc.

ROAD SURFACE AREA

This 400 m² area of asphalt pavement is ideal for training in on-land response techniques.









Our accreditations

ISO

For all of our activities, we are certified ISO 9001: 2015 (SGS-ICS), 'Quality Management System' and ISO 14001: 2015 (SGS-ICS), 'Environmental Management System'. We also hold various national and international accreditations and authorisations.

Civil protection accreditation

Cedre is accredited under the French Internal Security Code (article L. 725-1, L. 725-3 and R. 725-1 to R. 725-11). Accreditation from the French Directorate-General for Civil Protection and Crisis Management by the interministerial order of 22 January 2019 which officially recognises Cedre's capacity to work alongside government services in pollution response operations in French waters under the French emergency organisation ORSEC.

French Ministry of Ecology accreditation

Cedre is also accredited in accordance with article L. 211-5-1 of the French Code of the Environment by the Ministry for the Ecological and Inclusive Transition to conduct missions of general interest providing expertise and support for the authorities including: the organisation of training courses by a team of professional trainers on the management of and response to oil or chemical spills at sea, in sea ports, on the shoreline, in lakes and in watercourses. (Ministerial order of 20 December 2018).

Listings

Cedre is listed as an approved training organisation by the maritime cluster Pôle Mer Bretagne Atlantique and referenced on DataDock!





OIL AND HNS SPILL RESPONSE IN SURFACE WATERS





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.



- 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

- 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





Each trainee can customize their course with an optional specialty

OIL SPILL RESPONSE AT SEA AND ON THE SHORELINE



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.



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

- 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





OIL SPILL RESPONSE IN INLAND WATERS



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.



- 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

- 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, CEPPOL 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.

^{&#}x27;Ceppol is the French Navy Centre of Practical Expertise in Pollution Response.



- 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

- 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





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.



- 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

- 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





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.



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

- 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

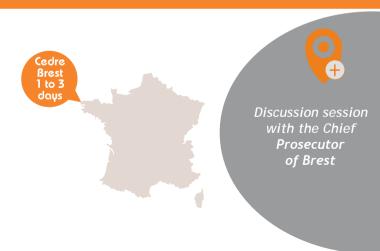
This course targets civil servants, such as navy and customs personnel, qualified to observe pollution at sea. It is currently closed to all other applicants.

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.



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

- 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



Our members



















Our clients

















































Participants' comments

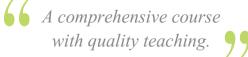
Well organised, interesting conferences and high quality training materials.



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



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





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.





How to register

For our standard courses:

Please visit the Training section of our website cedre.fr

Download and complete the registration form and return it to us. Written confirmation of your participation will be sent by post and a professional training agreement will be established. You will receive a final confirmation letter one month prior to the course start date. A course completion certificate will be issued at the end of the course.

For our bespoke courses:

To obtain a quote, please email us at: formation@cedre.fr

Further information

Cedre Studies and Training Department

Training centre n°: 53290244729

SIRET n°: 31542914200039

APE code: 7219Z

Legal status: Association under French

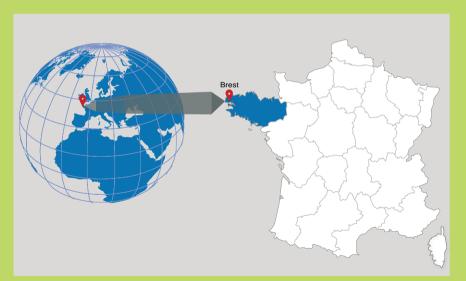
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Cedre

Want to register?
Planning team training?
Get in touch!
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CS 41836
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Tel: + 33 (0)2 98 33 10 10

formation@cedre.fr

Got a question about a course?



find out more about our facilities at cedre.fr







