



## PRINCIPLES OF CHEMICAL SPILL RESPONSE AT SEA - IMO Manager Level -

### AIMS

Certain actual or potential spills which have affected either France (*Grande America, Union Neptune, YM Uranus, MSC Napoli, Ece, Ievoli Sun, Bow Eagle, Balu, Lykes Liberator, Junior M, Sherbro, Perintis*) or other countries (*MSC Zoe, Cason, Irina 2, Tai Ping, Metin Ka, Barge N12, Princess of the Stars*) and the rising number of enquiries received by Cedre relating to chemical spills or threats prove that this form of pollution is a growing concern for response authorities. This three day course aims to provide the theoretical knowledge required for good management of the initial stages of response to a chemical spill.

By the end of the course, participants will be able to organise the initial action to be taken following a spill. The key pedagogical aims are for trainees to be able to assess the risks for both human beings and the environment, to be able to seek initial information and to decide on the first actions to implement immediately after a spill, but also to be familiar with the experts and the information they can provide.

### TARGET AUDIENCE

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

### TOPICS COVERED

The programme is drawn up in agreement with Ceppol; the following points will be covered:

#### Maritime transport of chemicals:

- Packaging and ship categories
- Transport statistics
- Accident statistics

#### The behaviour of chemicals:

- Fundamentals of physico-chemical parameters;
- Introduction of behaviour/classification: SECB ;
- Modelling in the water column;
- Modelling in air.

#### Strategies and techniques:

- Response according to the behaviour of chemicals;

#### Exercises, practical demonstration:

- Determination of SECB behaviour by trainees;
- First risk assessment using codes;
- Survey by navy fire department

These themes are addressed by experts from Cedre specialised in this field, as well as by external lecturers with experience of real incidents. The practical exercises will concern the determination of the behaviour of chemicals, the search for information for operational purposes in the codes as well as first survey, using new equipment acquired at Cedre (e.g. containers, thermal cameras, PPE, container placarding).

### SESSIONS

**Participants:** between 10 and 22

**Trainers:** Cedre, navy fire-fighters, LASEM, INERIS, DAM, DGSCGC, DEB, AEM, DREAL, jurists

**Duration:** 3.5 days (24 h)

**Location:** At Cedre in Brest, France

**Registration:** by contacting Cedre (contact@cedre.fr)

**Registration fees:** €2 880 excl. tax.

**This includes:** hotel accomodation, local transportation, lunches, course documents.

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. Cedre is accredited in accordance with article L. 211-5-1 of the French Code of the Environment by MTE to conduct missions of general interest providing expertise and support for the authorities including the organisation of training courses 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 15th December 2020.