



# standard training courses

Bespoke training courses can be organised upon request,  
on your site or at Cedre,  
in French, English or Spanish.

## HNS SPILL RESPONSE IN SURFACE WATERS - IMO OPERATIONAL LEVEL

### AIMS

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

### TARGET AUDIENCE

- Fire-fighters and rescue services, private response teams
- Personnel from administrations, national and local governments
- 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
- HNS behaviour and impacts
- Spill assessment
- Containment and recovery
- Clean-up
- Waste management
- Worksite organisation
- Table-top exercise
- Practical sessions with equipment

### OUTLINE

A core part of the course concerns the presentation of the fundamental principles of HNS assessment and 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 different HNS behaviours such as gas (LNG), evaporators (e.g. benzene) floating pollutants (e.g. vegetable oil), dissolvers, sinkers, etc. 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 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), incident reviews, practical demonstrations as well as a table-top exercise.

### SESSIONS

**Participants:** between 15 and 20.  
**Trainers:** Cedre, fire-fighters  
**Duration:** 4 days (30 h)  
**Registration fees:** €3 270 excl. tax.  
**Location:** At Cedre in Brest, France.

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 MTEC 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 9<sup>th</sup> December 2019.