GHENT UNIVERSITY

Course Specifications

Valid as from the academic year 2020-2021

Introduction to Safety (C003626)

Due to Covid 19, the education and evaluation methods may vary from the information displayed in the schedules and course details. Any changes will be communicated on Ufora.

Course size (nominal values; actual values may depend on programme)

Credits	Study time	Contact hrs
3.0	90 h	24.0 h

Course offerings and teaching methods in academic year 2020-2021

A (year)	English	Gent	lecture	17.5 h
			practicum	7.5 h

Lecturers in academic year 2020-2021

Annaert, Axel	103879	lecturer-in-charge
Sensen, Christophe	103879	co-lecturer

Offered in the following programmes in 2020-2021	crdts	offering
Postgraduate Hydrography B	3	A

Teaching languages

English

Keywords

Position of the course

Basic knowledge of subjects, methodology and their practice
Relationship to other courses:
- HB310 - Navigation, HB390 - Legal aspects

Contents

GMDSS
- Describe the means by which navigational warnings are provided to ships at sea using Global Marine Distress and Safety System Explain how to obtain and apply navigational warnings Explain the relative advantages of VHF, SSB, wireless telephone and satellite communications List the important VHF channels and their uses for vessels Use the Admiralty List of Radio Signals and GMDSS Explain the operation of Emergency Position-Indicating Radio-Beacons (EPIRB) Describe how vessel traffic services (VTS) operate and where to find the necessary information**GMDSS**
- Describe the means by which navigational warnings are provided to ships at sea using Global Marine Distress and Safety System.
- Explain how to obtain and apply navigational warnings.
- Explain the relative advantages of VHF, SSB, wireless telephone and satellite communications.
- List the important VHF channels and their uses for vessels.
- Use the Admiralty List of Radio Signals and GMDSS.
- Explain the operation of Emergency Position Indicating Radio Beacons (EPIRB).
- Describe how vessel traffic services (VTS) operate and where to find the necessary information.

SAFETY
- How to communicate with other persons on board on elementary safety matters and understand safety information symbols, signs and alarm signals.
- Know what to do if:
  - A person falls overboard,
  - Fire or smoke is detected, or
  - The fire or abandon ship alarm is sounded.
- How to identify muster and embarkation stations and emergency escape routes.
- Locate and don lifejackets.
- How to raise the alarm and have basic knowledge of the use of portable fire

extinguishers.
- How to take immediate action upon encountering an accident or other medical emergency before seeking further medical assistance on board.
- Know how to close and open the fire, weathertight and watertight doors fitted in a ship other than those for hull openings.
- Know how to survive at sea in the event of ship abandonment.
- Know how to comply with emergency procedures.
- Know how to take precautions to prevent pollution of the marine environment.
- Know how to observe safe working practices.
- Know how to contribute to effective communications on board ships.
- Know how to contribute to effective human relationships on board ships.
- Understand and know how to take necessary actions to control fatigue.

Initial competences

- Bachelor's degree or equivalent
- Good knowledge of English
- Good knowledge of physics

Final competences

1. Basic knowledge of subjects, methodology and their practice.
2. Ability to identify, understand, apply and evaluate.
3. The student possesses qualities required by the STCW-code, content of the Safety Familiarisation training.
4. The student is provided with the necessary technical knowledge for general insight in the use of telecommunication equipment.

Conditions for credit contract

Access to this course unit via a credit contract is determined after successful competences assessment

Conditions for exam contract

This course unit cannot be taken via an exam contract

Teaching methods

Lecture, practicum

Learning materials and price

- Classroom with computer and beamer
- Different types of fire extinguishers
- Life raft
- 12 survival suits

References

- International Maritime Organization. (1978). *International Convention on Standards of Training, Certification and Watchkeeping for Seafarers (STCW) 1978, as amended.* London, UK: IMO.
- International Maritime Organization. (1974). *International Convention for the Safety of Life at Sea (SOLAS) 1974, as amended.* London, UK: IMO.
- International Maritime Organization. (2000). *International Code for Fire and Safety Systems (FSS Code)*. London, UK: IMO.
- International Maritime Organization. (latest ed.). *International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk (IBC Code).* London, UK: IMO.
- International Maritime Organization. (latest ed.). *IMO International Code for the Construction and Equipment of Ships Carrying Liquefied Gases in Bulk (IGC Code).* London, UK: IMO.
- International Chamber of Shipping. (latest ed.). *Tanker Safety Guide Petroleum. London, UK:* Marisec Publications.
- International Chamber of Shipping. (latest ed.). *Tanker Safety Guide Liquified Gas. London, UK:* Marisec Publications.
- International Chamber of Shipping. (latest ed.). *Tanker Safety Guide Chemicals. London, UK:* Marisec Publications.
- International Chamber of Shipping / OCIMF. (2006). *International Safety Guide for Oil Tankers and Terminals.* Edingburgh, UK: Witherbys Publishing.
- International Maritime Organization. (latest ed.). *Code on noise levels on board ships*. London, UK: IMO.
- International Association on Classification Societies. (latest ed.). *Guideance for entry into enclosed spaces*. London, UK: IACS.
- International Maritime Organization. (latest ed.). *GMDSS manual*. London, UK: IMO.
- British Admiralty. (latest ed.). *Admiralty list of Radio Signals, Volume 5, Global*

Maritime Distress and Safety System. London, UK: United Kingdom Hydrographic Office.
- International Telecommunication Union. (latest ed.). *The Radio Regulations*. Geneva, Switzerland: ITU

Course content-related study coaching

Evaluation methods

end-of-term evaluation

Examination methods in case of periodic evaluation during the first examination period

Written examination

Examination methods in case of periodic evaluation during the second examination period

Written examination

Examination methods in case of permanent evaluation

Possibilities of retake in case of permanent evaluation

not applicable

Calculation of the examination mark