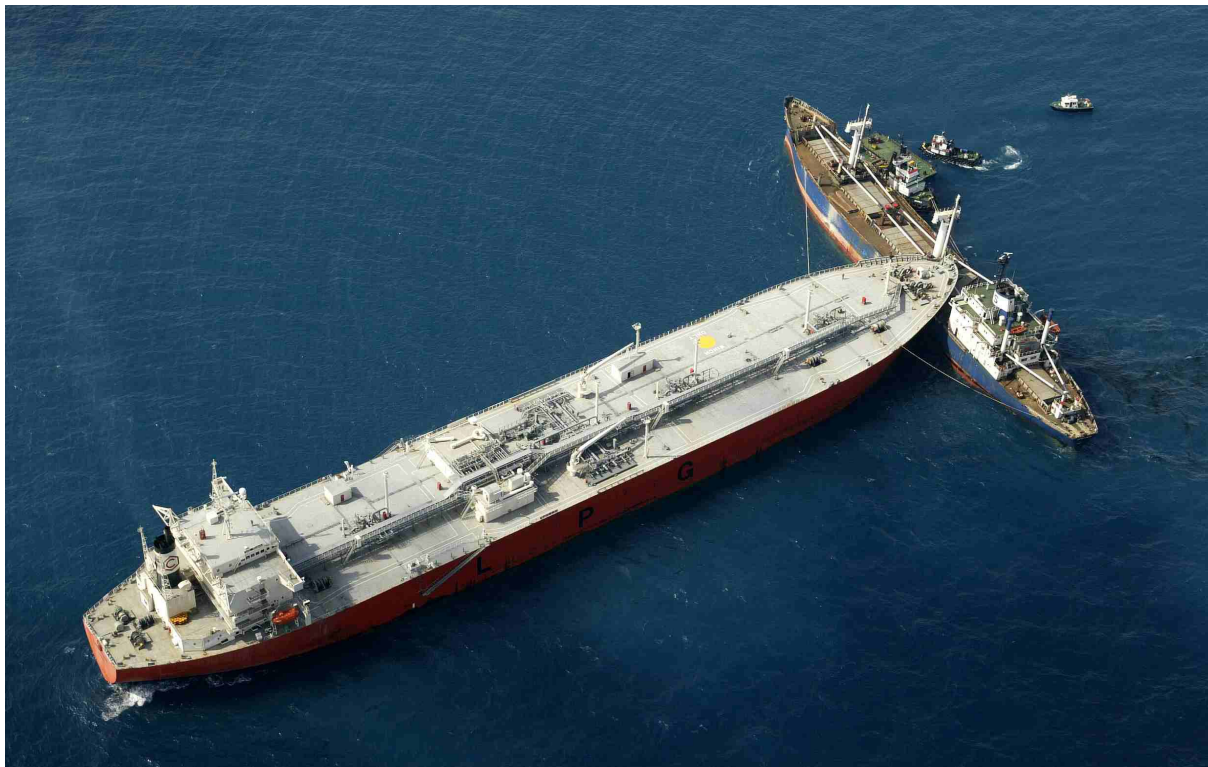


Accident & Incident Investigation With Focus On Human Factors



FORCE Technology's **Accident & Incident Investigation Course With Focus On Human Factors** aims at increasing current knowledge about how to properly conduct an effective human factors based investigation of accidents, incidents or near-misses.

According to official statistics from **US Coast Guard, USCG1985A**, approximately 80% of accidents and incidents in marine environments are due to human error or human factors. The human being as the cause of the accident or incident is the rule - not the exception.

Usually investigations stop at the conclusion of "human error", whilst investigation of human factors aspects aims at going beyond human error, analysing the different facets of the situation and trying to understand the mechanisms and the context which led to the inadequate performance.

The main purpose of investigating an accident or incident should be to prevent a similar event from occurring again and to identify underlying human and technical aspects in order to understand why it happened.

The course highlights the proper investigative procedures with focus on human factors and conveys an understanding of the basic skills needed by the investigator.

The target group of the course is personnel involved in the investigation of maritime accidents such as groundings, collisions, fire, loss of ship, contact damage and occupational accidents as well as personnel involved in registration, classification and processing of maritime incidents and near-misses.



Human Factors aspects play a significant role in most incidents or accidents



The course makes use of realistic scenarios developed in full mission bridge simulator at FORCE Technology in Lyngby

Objectives of the course

The course is divided into two parts.

The objective of the **first part** of the course is to provide the participants with relevant knowledge in the field of human factors. Such knowledge will enable them to understand the influence from human and organisational factors on maritime accidents and to perform accident investigations with focus on human factors.

The objective of the **second part** of the course is to provide participants with practical information so they will be able to identify relevant Human Factors aspects while conducting accident and incident investigations.

This part of the course will also offer practical hints in questioning and interview techniques, and it will focus on human factors evidence collection and the initial actions to be taken at the accident / incident scene. The objective is also to enable the participants to produce accident reports incorporating data about the human element using a precise, comprehensive and scientifically approved technical language and terminology.

During the course the participants will have the opportunity to use and practice the knowledge acquired.

The course is addressed to:

- Superintendents
- Vetting managers
- Insurance consultants
- Onshore managers
- Senior officers on board

Main topics:

- Understanding of Human Factors and the influence on maritime accidents
- Proper and effective human factors based investigation
- Exploration of the causal chain of events in relation to an accident, with special consideration to all human factors aspects
- Ensure corrective action to prevent similar occurrences in the future
- Proper documentation of all areas of an investigation
- Follow-up on corrective measures.

Course organisation

The **first part** of the course is mainly theoretical but with a few practical exercises, videos and examples.

The **second part** of the course will combine theory with real examples and practical exercises.

Both parts are of 2 days duration each and will be held as residential courses at FORCE Technology in Kongens Lyngby, Denmark or at other agreed locations.



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