



Course syllabus

Faculty of Technology

Kalmar Maritime Academy

1SÄ35S Fartygssäkerhet, 5 högskolepoäng

1SÄ35S Ship Safety and Security, 5 credits

STCW reference

A-V/2 Requirements for the training and qualification of masters, officers, ratings and other personnel on passenger ships. A-VI/5 Requirements for the issue of certificates of proficiency for ship security officers. A-VI/2-1 Requirements for the issue of certificates of proficiency in survival craft, rescue boats other than fast rescue boats.

Main field of study

Maritime Science

Subject Group

Shipping

Level of classification

First Level

Progression

G1N

Date of Ratification

Approved by Faculty of Technology 2020-06-01

The course syllabus is valid from autumn semester 2020

Prerequisites

General entry requirements and Mathematics 2a / 2b / 2c, Physics 1b1 / 1a or Mathematics B, Physics A (Field-specific entry requirements 7/A7). Sufficient knowledge according to the certificate "Designated security duties" (TSFS 2011:116, TSFS 2013:47)

Objectives

Subcourse Crowd and crisis management, 2.0 credits

Proficiency and comprehension

On completion of the course, students should independently be able to:

- describe reactions in stress and crisis situations onboard
- explain the importance of the safety organization and routines in an state of emergency

Skills and abilities

On completion of the course, students should independently be able to:

- apply the safety organization's procedures in case of an emergency onboard
- optimize the human resources onboard at an emergency
- apply crisis management onboard
- communicate with crew and passengers safely during and after an emergency
- demonstrate the ability to act as a supervisor in an emergency onboard

Evaluation skills and Approach

On completion of the course, students should independently be able to:

- evaluate risks in an emergency onboard

Subcourse, Ship Security Officer, 1.5 credits

Proficiency and comprehension On completion of the course, students should independently be able to:

- describe regulations regarding maritime security
- describe ship protection plans, technical protective equipment and protective measures

Skills and abilities

On completion of the course, students should independently be able to:

- establish, use and maintain ship security plan
- planning and conducting exercises regarding to the ship security plan

Evaluation skills and Approach

On completion of the course, students should independently be able to:

- reflect on assessment, identification and management of threats and risks

Subcourse, Survival Techniques, 1.5 credits

Proficiency and comprehension

On completion of the course, students should independently be able to:

- describe national and international rules concerning survival crafts and equipment onboard
- demonstrate knowledge of being a leader or deputy leader of a lifeboat or in another role in charge of the management of life-saving equipment

Skills and abilities

On completion of the course, students should independently be able to:

- turn a life raft with immersion suits
- launch and recover a survival craft safely according to checklists
- provide correct orders in connection with launching and recovery operations
- handle signal and pyrotechnic equipment
- fundamental troubleshooting of the lifeboat engine
- interpret and understand safety plans and muster lists

Evaluation skills and Approach On completion of the course, students should independently be able to:

- evaluate and interpret the consequences of inadequate safety onboard

Content

Subcourse Crowd and crisis management, 2.0 credits

The content is according to the regulations of Transportstyrelsen regarding general advice of training and certification of seagoing personnel; TSFS 2011:116, Bilaga 6. This includes mainly:

- Introduction to the STCW Convention
- Disasters at sea
- Emergency psychology
- Ship Safety Organization
- Human and material resources
- Leadership and decision making in conflict and stress.
- Situation assessment and measures
- Information for passengers
- Handling of passengers and personnel in emergencies.
- Reactions and post-reactions in stress and crisis situations
- Prevent and respond to stress
- Crisis management and mental health care
- Media management
- Planning and implementation of realistic exercises.
- Exercises, debriefing

Subcourse, Ship Security Officer, 1.5 credits

The content is according to the regulations of Transportstyrelsen regarding general advice of training and certification of seagoing personnel;

- Historical and current threats to international shipping
- The background and purpose of the ISPS code
- International and national security policy
- Conventions, laws, regulations and regulations in maritime security
- Distribution of responsibilities between actors
- Ship security assessment
- Technical protective equipment
- Ship security plans
- Inspections and certification
- Register and administration in connection with maritime security
- Identification, assessment and countermeasures and management of threats and risks
- Protective measures onboard
- Emergency preparedness, training and exercises regarding ship protection
- Security education

Subcourse, Survival Technique, 1.5 credits

The content is according to the regulations of Transportstyrelsen regarding general advice of training and certification of seagoing personnel; TSFS 2011:116, Bilaga 18. This includes mainly:

- Various types of rescue equipment onboard
- Construction and equipment of lifeboats, lifeboats and MOB boats, (Man Overboard Boat)
- Communication equipment in survival crafts

- Lifeboat davits
- Methods for launching of survival craft and rescue boats
- Methods recovery of survival craft and rescue boats
- Procedures after ship abandonment
- Launching and recovery of MOB boats
- Handling of lifeboat engines
- Placement of life-saving equipment onboard (Safety Plan)
- Maintenance of survival equipment
- Safety plans
- Organization and implementation of lifeboat exercises
- Personal protective equipment
- Practical exercises with personal protective equipment, survival crafts and MOB boat
- Rescue operations by helicopter
- National and international regulations and conventions

Type of Instruction

Lectures, independent work, practical training and lab classes. Presence during practical training and lab classes is mandatory.

Examination

The course is assessed with the grades Fail (U) or Pass (G).

Examination is performed through:

- evaluation of individual exams 3 credits
- practical training sessions 2 credits

Repeat examination is offered in accordance with Local regulations for courses and examination at the first and second-cycle level at Linnaeus University. If the university has decided that a student is entitled to special pedagogical support due to a disability, the examiner has the right to give a customised exam or to have the student conduct the exam in an alternative way.

Course Evaluation

During the course or in close connection to the course, a course evaluation is to be carried out. The result and analysis of the course evaluation are to be communicated to the students who have taken the course and to the students who are to participate in the course the next time it is offered. The course evaluation is carried out anonymously. The compiled report will be filed.

Credit Overlap

The course cannot be included in a degree along with the following course/courses of which the content fully, or partly, corresponds to the content of this course:

Requirements for obtaining certificates in accordance with

Transportstyrelsens författningssamling, TSFS 2011:116, TSFS 2013:47

Required Reading and Additional Study Material

Subcourse Crowd and crisis management

Magnusson, Tobias & Lewenhaupt, Ian. (2013) *Krisledarskap: beredskap och hantering av kriser inom sjöfarten*, Stockholm: Jure. (130 p). ISBN 9789172235182

Subcourse, Ship Security Officer

Thomsson, Peter & Widlund, Mattias. (2017) *Sjöfartsskydd & ISPS koden, tredje upplagan*. Stockholm, Jure Förlag AB. (230 p). ISBN 9789172236776

Regulations from database provided by Linnaeus University

Subcourse, Survival Technique

House, David. (2011) *Marine Survival*, 3rd edition, Edinburgh, Witherby Seamanship, (315 p.) ISBN 9781856093552

Nilsson, Stefan (2015) *Handbok för överlevnad till sjöss*, Älvsjö, Sjösäkerhet AB, (272 p). ISBN 97891978923-3-9