

## Order on course and refresher course in advanced fire-fighting on board ships<sup>1</sup>

In pursuance of section 18(1)(i) and (iii), section 24b, section 25(4), section 25b(1) and (2), section 27(3) and section 28(5) of the act on the manning of ships (*lov om skibes besætning*), cf. consolidated act no. 74 of 17 January 2014, following consultation with the shipowner and seafarer organisations and by authority, the following provisions are laid down:

### *Purpose*

**Section 1.** The purpose of this order is to lay down the requirements for courses and refresher courses in advanced fire-fighting on board ships, cf. the A Code, part A-VI/3 of the International Convention on Standards of Training, Certification and Watchkeeping for Seafarers, 1978, as amended (the STCW Convention), as described in Annex 1.

### *Aim*

**Section 2.** The aim of the course and the refresher course is for the course participant to acquire the advanced fire-fighting knowledge, understanding and competences necessary for him to meet the training requirements in accordance with Annex 1 in order to:

- 1) control fire-fighting operations on board ships;
- 2) organise and train fire parties;
- 3) inspect and service fire-detection and fire-extinction systems and equipment; and
- 4) investigate and draft reports on fire-related incidents.

### *Participant requirements*

**Section 3.** In order to participate in a course and a refresher course in advanced fire-fighting on board ships, the course participant shall:

- 1) hold a valid health certificate for seafarers and fishermen; and
- 2) hold a certificate of competency as a ship's officer, navigating officer, ship mechanic or engineer officer.

*Subsection 2.* A seafarer who is studying to become a ship's officer, navigating officer, ship mechanic or engineer officer may be admitted to the course.

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<sup>1</sup> This order contains provisions implementing parts of directive 2008/106/EC of the European Parliament and of the Council of 19 November 2008 on the minimum level of training of seafarers, Official Journal 2008, no. L 323, page 33, as amended by directive 2012/35/EU of the European Parliament and of the Council of 21 November 2012 amending directive 2008/106/EC on the minimum level of training of seafarers, Official Journal 2012, no. L 343, page 78.

## *Course providers and instructor qualifications*

**Section 4.** Course providers shall have been approved by the Danish Maritime Authority in accordance with the order on approval and quality assurance, etc. of maritime training programmes.

*Subsection 2.* Course providers shall, on the basis of the purposes of the courses stipulated in Annex 1, determine the more detailed planning of the courses, including the duration of the courses, in consideration of the course participants' qualifications.

*Subsection 3.* The course provider shall ensure that the course participants meet the qualifications required for being admitted to the course pursuant to this order, cf. section 3.

**Section 5.** Course providers shall ensure that the instructors have the qualifications necessary to hold the courses mentioned. This shall include both professional qualifications and instruction/teaching qualifications.

## *Equipment*

**Section 6.** Course providers shall ensure that the relevant equipment for practical exercises and demonstration is available for courses, including:

- 1) ship construction or the like of a minimum of two floors containing at least six spaces;
- 2) smoke-diver course;
- 3) minimum 6 m<sup>2</sup> oil vessels; and
- 4) facilities for generating gas fires under a realistic pressure.

*Subsection 2.* Course providers shall be able to provide each course participant with the following equipment:

- 1) A fire helmet;
- 2) safety boots;
- 3) a mask;
- 4) fire clothes/fireman's outfit, minimum 2 layers;
- 5) smoke-diver's hood;
- 6) gloves;
- 7) smoke-diver's apparatus (compressed-air breathing apparatus);
- 8) communication equipment; and
- 9) SOLAS approved fire equipment.

## *Maintaining competences*

**Section 7.** The company and the master of the ship shall ensure that seafarers engaged or employed on board who have been assigned tasks requiring advanced fire-fighting qualifications, cf. part A-VI/3 of the A Code of the STCW Convention, at least every five years document having completed a refresher course in advanced fire-fighting on board ships.

*Subsection 2.* With a view to maintaining the level of competences required in pursuance of the A Code, part A-VI/3, paragraph 6, of the STCW Convention, on-board training may take place within the following areas:

- 1) Fire-fighting procedures at sea and in port, with particular emphasis on organization, tactics and command.
- 2) Communication and coordination during fire-fighting operations.
- 3) Ventilation control, including smoke extraction.
- 4) Control of fuels and electrical systems.
- 5) Fire-fighting process hazards (dry distillation, chemical reactions, boiler uptake fires, etc.).
- 6) Fire precautions and hazards associated with the storage and handling of materials (paints, etc.).
- 7) Management and control of injured persons.
- 8) Procedures for coordination with shore-based fire-fighters.

*Subsection 3.* If the seafarer has, within the last five years and for at least 12 months, been assigned tasks requiring a certificate of proficiency in advanced fire-fighting on board ships, the competences stipulated in subsection 2 shall be considered to have been maintained.

#### *Providers of refresher courses in advanced fire-fighting on board ships*

**Section 8.** Providers of refresher courses shall have been approved by the Danish Maritime Authority in accordance with the order on the approval and quality assurance, etc. of maritime training programmes.

*Subsection 2.* Course providers shall, on the basis of the purposes of the course stipulated in Annex 1, determine the more detailed course planning, including the duration of the course, in consideration of the participants' qualifications with a view to ensuring the course participants' continued competences within the course purposes stipulated in Annex 1.

*Subsection 3.* Course providers shall ensure that the refresher course meets the current requirements for equipment and instructor qualifications as regards courses in advanced fire-fighting on board ships.

#### *Certificates and registration*

**Section 9.** Course providers shall issue certificates to course participants who have demonstrated competences as stipulated in Annex 1 in connection with a course in advanced fire-fighting on board ships. Certificates in pursuance of this order shall be issued with a validity of up to five years from the date of issue.

*Subsection 2.* Certificates shall be drawn up as shown in Annex 2.

*Subsection 3.* As regards course participants holding a Danish certificate of competency, course providers shall inform the Danish Maritime Authority about courses completed by means of the Danish Maritime Authority's digital reporting system.

#### *Penalty provisions*

**Section 10.** Contraventions of this order shall be punishable by fine. Contraventions of section 7(1) by the shipowner or the master shall be punishable by fine or imprisonment for a term not exceeding one year.

*Subsection 2.* The penalty may be increased to imprisonment for a term not exceeding two years if the contravention was committed intentionally or grossly negligently and if the contravention:

- 1) has caused injury to young people below the age of 18 or provoked a risk of injury, or

2) has resulted in or aimed at a financial benefit, comprising also financial savings, for the contravener or for others.

*Subsection 3.* If the benefit obtained through the contravention is not confiscated, the size of such financial benefit obtained or aimed at shall be taken into account when determining the fine, including additional fines, cf. subsection 2(ii).

*Subsection 4.* Companies, etc. (legal persons) may incur criminal liability according to the provisions of part 5 of the penal code (*straffeloven*).

*Subsection 5.* When determining criminal liability pursuant to subsection 4, persons who have been employed to carry out work on board the ship by others than the shipowner shall also be considered affiliated with the shipowner. If a document of compliance has been issued in accordance with the International Safety Management Code or a certificate in accordance with the Maritime Labour Convention to another organisation or person, the master and the seafarers shall also be considered to be affiliated with the one to whom the document has been issued.

#### *Interim provisions*

**Section 11.** From 1 January 2017, seafarers covered by section 7(1) shall be able to present documentation of having completed a refresher course in advanced fire-fighting on board ships within the last five years.

*Subsection 2.* Until 31 December 2016, the master may issue documentation of refresher courses in advanced fire-fighting on board ships, cf. Annex 2, when the seafarer has, within the last five years, completed at least 12 months' seagoing service.

#### *Entry into force*

**Section 12.** The order shall enter into force on 1 January 2016.

**Section 13.** The order shall not apply to the Faroe Islands and to Greenland.

*Danish Maritime Authority, 8 December 2015*

Per Sønderstrup / Torsten Mathias Augustsen

## Specification of minimum standard of competence in advanced fire-fighting

Table A-VI/3

Column 1	Column 2	Column 3	Column 4
Competence	Knowledge, understanding and proficiency	Methods for demonstrating competence	Criteria for evaluating competence
Control fire-fighting operations aboard ships.	<p>Fire-fighting procedures at sea and in port, with particular emphasis on organization, tactics and command.</p> <p>Use of water for fire-extinguishing, the effect on ship stability, precautions and corrective procedures.</p> <p>Communication and coordination during fire-fighting operations.</p> <p>Ventilation control, including smoke extraction.</p> <p>Control of fuel and electrical systems.</p> <p>Fire-fighting process hazards (dry distillation, chemical reactions, boiler uptake fires, etc.).</p> <p>Fire-fighting involving dangerous goods.</p> <p>Fire precautions and hazards associated with the storage and handling of materials (paints, etc.).</p> <p>Management and control of injured persons.</p> <p>Procedures for coordination with shore-based fire-fighters.</p>	<p>Practical exercises and instruction conducted under approved and truly realistic training conditions (e.g. simulated shipboard conditions) and, whenever possible and practicable, in darkness.</p>	<p>Actions taken to control fires are based on a full and accurate assessment of the incident, using all available sources of information.</p> <p>The order of priority, timing and sequence of actions are appropriate to the overall requirements of the incident and to minimize damage and potential damage to the ship, injuries to personnel and impairment of the operational effectiveness of the ship.</p> <p>Transmission of information is prompt, accurate, complete and clear.</p> <p>Personal safety during fire control activities is safeguarded at all times.</p>
Organize and train fire parties.	<p>Preparation of contingency plans.</p> <p>Composition and allocation of personnel to fire parties.</p> <p>Strategies and tactics for control of fires in various parts of the ship.</p>	<p>Practical exercises and instruction conducted under approved and truly realistic training conditions, e.g. simulated shipboard conditions.</p>	<p>Composition and organization of fire control parties ensure the prompt and effective implementation of emergency plans and procedures.</p>
Inspect and service fire-detection and fire-extinguishing systems and	<p>Fire-detection systems; fixed fire-extinguishing systems; portable and</p>	<p>Practical exercises, using approved equipment and systems in a realistic train-</p>	<p>Operational effectiveness of all fire-detection and fire-extinguishing systems and</p>

equipment.	mobile fire-extinguishing equipment, including appliances, pumps and rescue, salvage, life-support, personal protective and communication equipment.  Requirements for statutory and classification surveys.	ing environment.	equipment is maintained at all times in accordance with performance specifications and legislative requirements.
Investigate and compile reports on incidents involving fire.	Assessment of cause of incidents involving fire.	Practical exercises in a realistic training environment.	Causes of fire are identified and the effectiveness of countermeasures is evaluated.

Name of issuing institution	
<p><b>BEVIS FOR UDDANNELSE I BRANDLEDELSE I SKIBE</b>  <i>Certificate of training in advanced fire-fighting on board ships</i></p> <p>BEVIS Udstedt efter bestemmelserne i  DEN INTERNATIONALE KONVENTION OM UDDANNELSE AF SØFARENDE,  OM SØNÆRING OG OM VAGTHOLD, 1978, SOM ÆNDRET</p> <p><i>CERTIFICATE ISSUED UNDER THE PROVISIONS OF THE INTERNATIONAL CONVENTION  ON STANDARDS OF TRAINING, CERTIFICATION AND WATCHKEEPING  FOR SEAFARERS, 1978, AS AMENDED</i></p>	
Det attesteres herved, at <i>This is to certify that</i>	
CPR. NR. <i>(ID no.)</i>	
på datoen <i>on the date</i>	
med tilfredsstillende resultat har afsluttet en af Søfartsstyrelsen godkendt uddannelse i brandledelse. <i>satisfactorily has completed training in advanced fire-fighting approved by the Danish Maritime Authority.</i>	
Uddannelsen opfylder kravene i reglement VI/3 i STCW-konventionen af 1978, som ændret. <i>The training meets the requirements of regulation VI/3 of the STCW Convention of 1978, as amended.</i>	
Ihænderhaverens fødselsdato <i>Date of birth of the holder of the certificate</i>	
Efter bemyndigelse af Søfartsstyrelsen <i>As authorized by the Danish Maritime Authority</i>	
Sted og dato .....	.....
<i>Place and date</i>	<i>Underskrift</i> <i>Signature</i>
	Stempel <i>Stamp</i>