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Chapter A I B  
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Technical regulation on  
occupational health in ships

## CHAPTER I

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# CHAPTER I

## Performance of work

### **Part B Young people's work on board ships**

#### **Regulation 1 Application**

- 1 The provisions of this part shall cover the employment of young people below the age of 18 for work on board ships.
- 2 The obligations shall rest with employers (in the following referred to as ship owners), masters and supervisors.
- 3 This part contains provisions implementing Council Directive 94/33/EC of 22 June 1994 on the protection of young people at work, Official Journal 1994 L 216, p. 12.
- 4 Insofar as stricter provisions on the employment of young people on board ships have been laid down in other rules, including higher age limits for certain kinds of work, such provisions shall apply prior to the provisions of this part.

#### **Regulation 2 The master's obligations, etc.**

- 1 When young people are employed, efforts shall be made to ensure that the work can be carried out in a fully reasonable way from a health and safety perspective when tasks are being chosen and the work is being planned and arranged.
- 2 Measures under regulation 2 (1), cf. regulation 2 (1)-(5) of part A of this chapter, shall be taken on the basis of an assessment of the risks that the work present to the young people, and particular consideration shall be paid to the special risks that are due to their lack of experience, lack of awareness of risks or the fact that they are not yet fully developed. In addition, consideration shall be paid to the physical, biological, chemical as well as mental effects in both the short and the longer term to which the young people may be exposed.
- 3 The master shall ensure that the young people receive thorough training and instructions so that they can carry out their work in a way that is free of risks. In this connection, the master shall make the young people aware of the measures that have been taken as regards their health and safety.
- 4 Where user instructions shall be available about substances and materials, technical aids, etc. for the use of the crew during work, the master shall ensure that the young people are acquainted with the information contained in such instructions.
- 5 The work shall be performed under the effective surveillance of a person who has turned 18 and who has the necessary insight into the nature of the work.
- 6 The master shall involve the crew and the safety organisation in the planning, implementation and control of the health and safety aspects of young people's work.
- 7 On ships where young people are employed whose labour has been rented out to the ship or made available to the ship in some other way by another company, the ship owner or, in his place, the master has an obligation to ensure that the work of these

people is planned, arranged and carried out in a way that is fully reasonable from a health and safety perspective.

**Regulation 3 Certain kinds of work that young people below the age of 18 may not perform**

- 1 Young people may not be engaged in the kinds of work mentioned in regulations 14 to 18, unless expressly provided otherwise.
- 2 Work forming a necessary part of a qualifying apprentice training programme, a candidate training programme approved by the Danish Maritime Authority, a basic vocational training programme or a similar training programme of at least two years' duration shall be exempted from the prohibitions of regulations 4, 5(1), 6(2), 8 to 12 and 19(2) and (3) to the extent that it is necessary to complete the training programme. As regards work after the completion of the training programme, the same exemptions shall apply to the extent that they are necessary for the employment of the young person.
- 3 Work on board fishing vessels forming a necessary part of the training in connection with an education as a fisherman approved by the Danish Maritime Authority may be exempted from the prohibitions of regulations 4, 5(1), 6(2), 8 to 12 and 19 (2) and (3) to the extent that it is necessary to complete the training programme. As regards work after the completion of the training programme, the same exemptions shall apply to the extent that they are necessary for the employment of the young person.
- 4 Paragraphs (2) and (3) shall not apply, however, to work that involves exposure to lead and asbestos in some way.

**Regulation 4 Risks of accidents**

Young people may not work with the technical aids, installations or working processes stipulated in annex 1 or with work that involves the same degree of hazard.

**Regulation 5 Health hazards associated with work with certain substances and materials**

- 1 Young people may not work with or in any other way be exposed to effects from the substances and materials mentioned in annex 2.
- 2 It shall be permitted to engage young people in working processes in which the substances and materials mentioned in annex 2 form a part if the processes are in closed systems or if the young people are in any other similar way secured against the effects.

**Regulation 6 Noise and vibrations**

- 1 Young people may not be exposed to noise or vibrations that may present a danger to their health.
- 2 Young people may not work with vibrating hand tools with a level of vibration higher than 130 dB (HA).
- 3 In cases where it is permitted under regulation 3(2) and (3) to perform work with vibrating hand tools, the daily work shall be arranged so that there are frequent interruptions.

**Regulation 7 Other health and safety hazards – physical strains**

- 1 Young people may not be exposed to physical strains that may be harmful to their health or development in the short or long term.
- 2 Unnecessary physical strains as well as inappropriate postures or movements shall be avoided.
- 3 To the widest possible extent, young people shall be prevented from lifting or carrying loads of more than 12 kg.
- 4 This may, however, be departed from in connection with work taking place under ergonomically appropriate conditions, but efforts shall be made to ensure that the loads carried or lifted by each individual person do not weigh more than 25 kg.
- 5 Efforts should be made to avoid that young people are exposed to greater loads during their work than those mentioned in regulation 7(3) and (4).

**Regulation 8 Piece work**

Young people may not be engaged in work where the pace is decided by a machine and that involves piece work.

**Regulation 9 Danger of items falling down or collapsing**

If a task is associated with a risk of items falling down or collapsing, young people may not be engaged in such work until the danger has been effectively obviated by means of technical aids that do not involve the use of personal protective equipment.

**Regulation 10 Extremely high and low temperatures**

- 1 Young people may not work in surroundings or be engaged in work that may present a danger to their safety due to extremely high or extremely low temperatures.
- 2 On ships registered on Greenland, work may, however, be performed at extremely low temperatures if efforts have been made to ensure that the work can be performed in a fully reasonable way from a health and safety perspective.

**Regulation 11 Radiation**

Young people may not be engaged in work where they are exposed to ionising radiation.

**Regulation 12 High voltage**

Young people may not be engaged in work involving a risk of high voltage shocks.

**Regulation 13 Suffocation risks**

Young people may not be engaged in work that may involve a risk of suffocation as a consequence of a lack of oxygen.

**Regulation 14 Pressure cylinders**

Young people may not be engaged in the recharging of pressure cylinders.

**Regulation 15 Risks of explosion**

Young people may not be engaged in working processes that may involve a risk of explosion unless effective technical measures have been taken to prevent personal injury.

**Regulation 16 Breathing masks**

Young people may be engaged in work involving the use of breathing masks supplied with fresh-air only for a maximum of four hours a day.

**Regulation 17 High air pressure**

Young people may not be engaged in work under high air pressure in, for example, pressure cabins.

**Regulation 18 Risk of violence**

Young people may not work on their own if the work may involve a special risk of them being exposed to violence.

## A N N E X I

Not exhaustive list of technical aids, installations  
and working processes with which young people  
below the age of 18 may not work

**1 Mechanically driven technical aids**

- 1 Machines with fast-cutting tools.<sup>1</sup>
- 2 Machines with piston-like movements.<sup>1</sup>
- 3 Machines with open rollers or worms.<sup>1</sup>
- 4 Mixing, painting, grinding and chopping machines, cutting machines, tearing machines and centrifuges.<sup>1</sup>
- 5 Beating tools.<sup>2</sup>
- 6 Apparatuses for cleaning, painting, rust protection treatment or the like with a working pressure of more than 7 Mpa (70 bars).

**2 Engine-driven machinery, etc.**

Industrial trucks as well as fork stackers and fork trucks as regards the work as driver or operator.

**3 Mechanically driven lifting devices or transporters, lifts, cranes, working platforms, suspended scaffolds, winches and otter boards**

However, young people shall be permitted to operate push-button lifts.

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<sup>1</sup> Young people may be permitted to use the technical aids mentioned if they have been designed or shielded so that the moving and processing parts are inaccessible during operation.

<sup>2</sup> However, young people may be permitted to carry out work for a short while, i.e. for less than 30 minutes in an eight-hour working day.

## A N N E X I I

## List of substances and materials with which young people below the age of 18 may not work or to which they may not be exposed in any other way

- 1 Substances and materials covered by regulation 2 (2-1) of chapter II, part A, used on board ships and which:
  - A:** are marked with the following danger symbols and danger designations:
    - Tx, very toxic
    - T, toxic
    - C, caustic
    - E, explosive
  - including substances and materials marked with the risk phrases:
    - R39, Danger of very serious irreversible effects
    - R45, May cause cancer
    - R46, May cause heritable genetic damage
    - R60, May impair fertility
    - R61, May cause harm to the unborn child
  - B:** are marked with the danger symbol and danger designation Xn, harmful to health, and are also marked with at least one of the following risk phrases:
    - R40, Possible risks of irreversible effects
    - R42, May cause sensitisation by inhalation
    - R48, Danger of serious damage to health by prolonged exposure
    - R62, Possible risk of impaired fertility
    - R63, Possible risk of harm to the unborn child
  - C:** are marked with the danger symbol and danger designation Xi, irritant, and are also marked with the risk phrase:
    - R43, May cause sensitisation by skin contact
  - D:** are marked with the following risk phrase:
    - R12, Extremely flammable.
- 2 Substances and processes on the list issued by the Danish Working Environment Authority of substances and processes regarded as carcinogenic in the AT-instruction on limit values for substances and materials.
- 3 Materials containing more than 0.1 percentage by weight of substances mentioned under paragraph (2).
- 4 Organic solvents on the list issued by the Danish Working Environment Authority of organic solvents, cf. the AT-instruction on limit values for substances and materials.
- 5 Materials containing more than 0.5 percentage by weight of the solvents mentioned under paragraph (4).

- 6 Biological agents in groups 3 and 4, cf. the technical regulation issued by the Danish Maritime Authority on the protection of employees against the dangers of being exposed to biological agents during work.
- 7 Lead and lead compounds insofar as they can be absorbed by the human organism.
- 8 Asbestos.
- 9 The handling of fireworks as well as different objects, machinery, etc. that contain explosives.