

Order on courses and certificates for medical caretakers on board ships (maritime medical caretaker courses)¹

In pursuance of section 18(1)(ii) and section 24f(2) of the act on the manning of ships (*lov om skibes besætning*), cf. consolidated act no. 74 of 17 January 2014, and following consultation with the shipowner and seafarer organisations, the following provisions are laid down:

Introduction

Section 1. The order on Notice A from the Danish Maritime Authority, technical regulation on occupational health in ships, stipulates which ship medicine chest a merchant and a fishing vessel is to carry on board in relation with its trade area as well as the requirements for the certificate to be held by the person responsible for medical care on board.

Subsection 2. In order to obtain a certificate as a medical caretaker on board the ships mentioned in subsection 1, the person concerned shall be trained and qualified to function independently as a medical caretaker on board the relevant ship in accordance with the provisions of the order on Notice A from the Danish Maritime Authority, technical regulation on occupational health in ships.

Structure and contents, etc. of the courses

Section 2. After having completed the course, the participant is capable of forming part of the crew as a medical caretaker in ships with a medicine chest corresponding to the relevant certificate.

Section 3. The following maritime medical caretaker courses and certificates are available:

Course:	Medicine chest category:
Basic course for certificate A	Categories A, B and C
Basic course for certificate B	Categories B and C
Basic course for certificate C (can be supplemented by Medical First Aid Guide (MFAG))	Category C
Supplementary course from certificate B to A	Categories A, B and C
Refresher course, certificate A	Categories A, B and C
Refresher course, certificate B	Categories B and C
Refresher course, certificate C	Category C
Refresher course, certificate C, including MFAG/Passengers	Categories C and P
Supplementary course for certificate A	Categories A, B and C

Subsection 2. The courses shall be arranged and carried out in accordance with the training programmes of annexes 1-9.

Section 4. In Denmark, the courses are held by the Danish Maritime Authority, cf. however subsection 2 and subsection 3. The Danish Maritime Authority may approve other course providers to hold courses and issue certificates when the participants have completed approved course sequences.

¹ This order contains provisions implementing parts of Council Directive 92/29/EEC of 31 March 1992 on minimum safety and health requirements for improved medical treatment on board vessels, Official Journal 1992 L 113, p. 19, as well as parts of Directive 2001/25/EC of the European Parliament and of the Council of 4 April 2001 on the minimum level of training of seafarers, Official Journal 2001 L 136, p. 17.

Subsection 2. The Danish Maritime Authority may approve providers in Denmark of course for certificates B and C, cf. section 11.

Subsection 3. The Danish Maritime Authority may approve providers of the supplementary course for certificate A and refresher course certificate A outside Denmark following application, cf. section 11(5).

Subsection 4. Applications pursuant to subsection 3 shall be forwarded to the Danish Maritime Authority. Applications shall be accompanied by documentation that the institution that is requested to be approved meets the requirements of section 8 as well as section 11(1)-(3), cf. however section 11(5).

Subsection 5. As regards course providers pursuant to subsection 3 from countries outside the EU or the EEA, the IMO Maritime Safety Committee and the European Commission shall have announced that the relevant country, through its information material, has informed about its full and complete implementation of the STCW Convention and that Denmark has concluded an agreement with the country about the recognition of certificates of competency in accordance with the provisions of the STCW Convention.

Participant evaluation

Section 5. At the end of each course, it shall be evaluated whether the person concerned meets the purposes and objectives determined for the course.

Certificate validity and refreshing

Section 6. Certificates under this order shall be issued with a validity of up to five years from the date of issue.

Subsection 2. In order to have a certificate renewed, a medical caretaker shall be required at least every five years to have his competences in first aid and treatment procedures refreshed as well as acquire new knowledge in accordance with the training plans in force.

Subsection 3. As regards medical caretakers in passenger ships holding certificates for C and P, the course shall be refreshed at least every second year. The course does not maintain certificate A or B.

Subsection 4. As regards certificates older than five years, the Danish Maritime Authority shall decide on the requirements for reacquisition.

Recognition of certificates from EU and EEA countries

Section 7. As regards persons holding a valid certificate issued pursuant to the Council Directive on minimum safety and health requirements for improved medical treatment on board vessels, the provisions of the Directive of the European Parliament and of the Council on the recognition of professional qualifications shall apply.

Teacher qualifications

Section 8. Teachers at courses for all types of certificates, except for certificate C, cf. hereon section 9, shall

- 1) have passed the Danish nurse examination, cf. the order on the training programme for a professional bachelor in nursing in force, and hold a Danish authorisation as a nurse with at least 4 years' clinical experience and pre-hospital knowledge;

- 2) have completed relevant educational training as a teacher;
- 3) hold a valid certificate for having completed training as a first-aid instructor, approved by the Danish First-Aid Council (*Dansk Førstehjælpsråd*); and
- 4) have participated in a course for teachers, cf. annex 10.

Subsection 2. In connection with the approval of course providers abroad pursuant to section 4(3), the Danish Maritime Authority shall – in cooperation with the Danish Health and Medicines Authority and other relevant authorities and institutions – assess whether the training of the teachers in the country concerned is at a level corresponding to that stipulated in subsection 1(i)-(iii).

Section 9. Teachers at courses for certificate C shall

- 1) hold a valid certificate for having completed training as a first-aid instructor, approved by the Danish First-Aid Council (*Dansk Førstehjælpsråd*);
- 2) have documented educational training and qualifications; and
- 3) have participated in a course sequence for teachers, cf. annex 10.

Section 10. The training institution shall ensure that the teachers maintain their skills teaching the relevant courses.

Subsection 2. Subsection 1 shall be considered to have been met if the teachers have held at least three courses during the last 12 months or have attended the course which he is to teach or has participated in a course sequence, cf. annex 10.

Approval of course providers

Section 11. Course providers shall be approved in accordance with the order on the approval and quality control, etc. of maritime training programmes in force.

Subsection 2. Course providers shall ensure the following:

- 1) That a doctor is associated who is responsible for the following:
 - a) Inspection with and responsibility for the teaching and training in health professional procedures.
 - b) Inspection with and responsibility for the teachers' health professional competences and their compliance with the provisions on the exercise of the medical profession in force.
- 2) That the requirements for safety equipment as well as the health and safety conditions pertaining to teaching equipment and teaching facilities are complied with, cf. annex 11.
- 3) That the Danish Maritime Authority receives information about the date and year of birth or the age and place of birth as well as the full name of persons who have completed the course.

Subsection 3. The inspection pursuant to subsection 2(i) shall be carried out at least once a year. The inspection shall be documented to the Danish Maritime Authority.

Subsection 4. The Danish Maritime Authority may require a special reporting system to be used for reporting the information stipulated in subsection 2(iii).

Subsection 5. When the Danish Maritime Authority approves a course provider outside Denmark pursuant to subsection 1, cf. section 4(3), it shall be assessed, in cooperation with the Danish Health and Medicines Authority and other relevant authorities, whether there are any conditions in the country concerned that may be considered comparable with a view to meeting the requirements of subsections 2 and 3 in order to acquire a satisfactory level, including the qualifications of the inspecting doctor.

Subsection 6. The Danish Maritime Authority may require payment for the approval and quality control of course providers pursuant to subsection 5.

Payment for courses

Section 12. The courses mentioned in section 3(1) held by the Danish Maritime Authority shall be free of charge for participants who are

- 1) Danish citizens;
- 2) persons with a permanent address in Denmark; or
- 3) citizens in a country that is a member of the EU or the EEA.

Subsection 2. Persons not covered by subsection 1 shall pay for the course. The fee amount shall be published on the webpage of the Danish Maritime Authority.

Section 13. In case of cancellation or absence from the courses mentioned in section 3(3) held by the Danish Maritime Authority, the following shall be paid:

- 1) In case of cancellation 14 days or less before the start of the course or in case of absence, the entire fee due for the course concerned shall be paid, cf. section 12(2), second clause.
- 2) In case of cancellation more than 14 days before the start of the course, a fee of DKK 500 is due.

Subsection 2. If the participant is not to pay for the course, cf. section 12(1), the participant shall – in case of cancellation 14 days or less before the start of the course or absence – pay the amount due for courses held by the Danish Maritime Authority, cf. section 12(2).

Entry into force

Section 14. This order shall enter into force on 1 November 2014.

Subsection 2. At the same time, order no. 1550 of 17 December 2007 on training and qualification certificates for medical caretakers on board ships shall be repealed (the maritime health training programmes).

Subsection 3. Certificates issued pursuant to order no. 1550 of 17 December 2007 on training and qualification certificates for medical caretakers on board ships shall remain valid until the date when the certificate ceases to be valid.

Subsection 4. Approvals issued pursuant to order no. 1550 of 17 December 2007 on training and qualification certificates for medical caretakers on board ships shall remain valid until the date when the approval ceases to be valid.

Danish Maritime Authority, 10 October 2014

Per Sønderstrup / Philippe Bauchy

Training programme for basic course – medical caretaker certificate A

1. Purpose

That the participant, through active participation in the training programme, shall acquire skills so that he can act independently on board with pre-hospital procedures as well as be the responsible medical caretaker on board ships with a medicine chest category A.

2. Objective of the learning outcome

The objective of the learning outcome includes the knowledge, the skills and the competences that the participant is to acquire in relation to the use of the contents of medicine chest category A.

Knowledge

Participants in basic training for medical caretaker certificate A

- 1) can identify, examine, handle and look after injured and sick persons;
- 2) can observe objective and subjective symptoms and document values;
- 3) has basic knowledge about anatomy and physiology related to each individual lesson;
- 4) has knowledge about medicine chest CR.

Skills

Participants in basic training for medical caretaker certificate A

- 1) can identify and use the mobile resuscitation equipment;
- 2) can use the Danish Maritime Authority's "Medical Book for Seafarers" (*Lægebog for Søfarende*), "Radio Medical records" (*Radio Medical optegnelser*) and the Danish Maritime Authority's "Record, control document and user guidelines A" (*Fortegnelse, kontroldokument og brugervejledning A*);
- 3) can carry out independently the first-aid and pre-hospital medical caretaker procedures mentioned in the Danish Maritime Authority's "Medical Book for Seafarers" (*Lægebog for Søfarende*);
- 4) can insert an intravenous cannula, insert a drip and use injection techniques.

Competences

Participants in basic training for medical caretaker certificate A

- 1) Can function as the Radio Medical doctor's eyes, ears and hands when treating a sick or injured person by using the contents of "Medical Book for Seafarers" (*Lægebog for Søfarende*), the "Record, control document and user guidelines category A" (*Fortegnelse, kontroldokument og brugervejledning Kategori A*), and "Radio Medical records" (*Radio Medical optegnelser*) under the framework of current law.

3. Contents

- Legal basis.
- Medicine chest categories A and CR.
- Objective values.
- Examination and care of sick or injured person.
- Practical training of invasive procedures:

- Insertion of a venous cannula, to be trained on a dummy. To be finalised by a successful insertion of a venous cannula, including insertion and observation of intravenous fluids, on a fellow course participant.
- Injection techniques, to be trained on a dummy. To be finalised by a successful injection on a fellow course participant.
- Diagnostic examinations to be trained on a fellow course participant.
- Control of fluid balance and insertion of a urethral catheter.
- Infectious diseases, including tropical diseases and vaccinations.
- Head, neck and back injuries.
- Eye trouble and dental damage.
- Ear, nose, throat injuries and diseases.
- Burns.
- Electricity-related accidents.
- Medical First Aid Guide (MFAAG).
- Haemorrhages, including shock.
- Muscle and joint injuries and fractures, including application of plaster cast.
- Chest pains, heart failure, including the use of an automated external defibrillator (AED).
- Fainting fits, convulsions and drowning.
- Women's diseases and delivery.
- Mental crises and acute psychosis.
- Types of wounds and treatment of wounds, including suturing, Tetanus and bandaging.
- Stomach aches, including constipation.
- Food in relation to the current guidelines of the Danish Veterinary and Food Administration and the food directive.
- Sleep in relation to fatigue and provisions on hours of rest.
- Abuse and psychoactive substances.
- Diabetes.
- Hypothermia and hyperthermia, including frost-bite.
- Cooperation with Radio Medical.
- Use of the "Medical Book for Seafarers" (*Lægebog for Søfarende*), the "Radio Medical records" (*Radio Medical optegnelser*) and the "Record, control document and user guidelines category A" (*Fortegnelse, kontrolokument og brugervejledning Kategori A*).
- Hygiene.
- Deaths.
- Sexually transmitted diseases.

4. Framework, methods and course participant approval

- The training shall be carried out under conditions that are realistic for the seafarer and with the contents available in a medicine chest category A.
- The teaching shall be arranged with course participant activities for about two-thirds of the time.
- Participation in all lessons.
- Meet well prepared and take an active part in the lessons.
- Meet knowledge, skills and attitude objectives.
- Be able to carry out the invasive procedures on a fellow course participant.
- When training invasive procedures, the number of participants per instructor shall be eight.

5. Qualifications/admission requirements

The course participant shall have been admitted to or have completed the training programme for senior officers, masters, engineer officers, masters (restricted), masters (1st class) on fishing vessels or have been assigned to function as a medical caretaker on board.

In addition, it shall be possible to admit course participants who can present documentation from the Danish Maritime Authority that a medical caretaker certificate A is required.

Persons who have completed the basic training for medical caretaker certificate B within the last 12 months may, through a supplementary course cf. annex 4, acquire a certificate for medical caretaker certificate A.

6. Duration

Ten days.

7. References

- Council Directive 92/29/EEC and Council Directive 2008/106/EC.
- STCW A-VI/4, paragraph 1-6, tables A-VI/4-1 and A-VI/4-2.
- Notice A from the Danish Maritime Authority, chapter IX B.
- Medical Book for Seafarers (*Lægebog for Søfarende*).
- Radio Medical records (*Radio Medical optegnelsen*).
- Record, control document and user guidelines A and CR (*Fortegnelse, kontroldokument og brugervejledning kategori A og CR*).
- Publications issued by the Danish Maritime Authority and the Danish Fishermen's Occupational Health Service.
- IMDG Code, supplementary part, MFAG.

Training programme for basic course – medical caretaker certificate B

1. Purpose

That the participant, through active participation in the training programme, shall acquire skills so that he can act independently on board with pre-hospital procedures as well as be the responsible medical caretaker on board ships with a requirement for medicine chest category B.

2. Objective of the learning outcome

The objective of the learning outcome includes the knowledge, the skills and the competences that the participant is to acquire in relation to the contents of medicine chest category B.

Knowledge

Participants in basic training for medical caretaker certificate B

- 1) has knowledge about objective examinations and can document objectively measured values;
- 2) has knowledge about the handling and looking after injured and sick persons;
- 3) can observe objective and subjective symptoms;
- 4) has basic knowledge about anatomy and physiology related to the contents;
- 5) has knowledge about life-raft and rescue boat medicine chest category CR.

Skills

Participants in basic training for medical caretaker certificate B

- 1) can identify and use the mobile resuscitation equipment;
- 2) can use the “Medical Book for Seafarers” (*Lægebog for Søfarende*), the “Radio Medical records” (*Radio Medical optegnelser*) and the “Record, control document and user guidelines category B” (*Fortegnelse, kontrol dokument og brugervejledning Kategori B*);
- 3) can independently perform the pre-hospital procedures described in the “Medical Book for Seafarers” (*Lægebog for Søfarende*).

Competences

Participants in basic training for medical caretaker certificate B

- 1) Can function as the Radio Medical doctor’s eyes, ears and hands when treating a sick or injured person by using the contents of the “Medical Book for Seafarers” (*Lægebog for Søfarende*), the “Record, control document and user guidelines category B” (*Fortegnelse, kontrol dokument og brugervejledning Kategori B*), and “Radio Medical records” (*Radio Medical optegnelser*) under the framework of current law.

3. Contents

- Legal basis.
- Medicine chest categories B and CR.
- Objective values.
- Examination and care of sick or injured person.
- Practical training of invasive procedures:

- Insertion of a venous cannula, to be trained on a dummy. To be finalised by a successful insertion of a venous cannula, including insertion and observation of intravenous fluids, on a fellow course participant.
- Injection techniques, to be trained on a dummy. To be finalised by a successful injection on a fellow course participant.
- Control of fluid balance and insertion of a urethral catheter.
- Head, neck and back injuries.
- Removal of foreign bodies from the eye.
- Injection techniques.
- Burns.
- Electricity-related accidents.
- Medical First Aid Guide (MFAG).
- Haemorrhages, including shock.
- Muscle and joint injuries and fractures, including application of plaster cast.
- Chest pains, heart failure, including the use of an automated external defibrillator (AED).
- Fainting fits, convulsions and drowning.
- Mental crises and acute psychosis.
- Types of wounds and treatment of wounds, including suturing, Tetanus and bandaging.
- Stomach aches, including constipation.
- Diabetes.
- Hypothermia and hyperthermia, including frost-bite.
- Cooperation with Radio Medical.
- Use of the “Medical Book for Seafarers” (*Lægebog for Søfarende*), the “Radio Medical records” (*Radio Medical optegnelser*) and the “Record, control document and user guidelines category A” (*Fortegnelse, kontroldokument og brugervejledning Kategori A*).
- Hygiene.
- Deaths.

4. Framework, methods and course approval

- The training shall be carried out under conditions that are realistic for the seafarer and with the contents available in a medicine chest category B.
- The teaching shall be arranged with course participant activities for two-thirds of the time.
- Participation in all lessons.
- Meet well prepared and take an active part in the lessons.
- Meet knowledge, skills and attitude objectives.
- Be able to carry out the invasive procedures on a fellow course participant.
- When training invasive procedures, the number of participants per instructor shall be eight.

5. Qualifications/admission requirements

The course participant shall have been admitted to the training programme for masters (home trade), masters (3rd class) on fishing vessels or to the basic course of the fishing industry. The course participant shall hold a valid certificate of proficiency in sailing (commercial), a certificate of competency as a second hand in fishing vessels or have been assigned to function as a medical caretaker on board.

6. Duration

Five days.

7. References

- Council Directive 92/29/EEC and Council Directive 2008/106/EC.
- STCW A-VI/4, paragraph 1-6, tables A-VI/4-1 and A-VI/4-2.
- Notice A from the Danish Maritime Authority, chapter IX B.
- The Medical Book for Seafarers (*Lægebog for Søfarende*).
- Radio Medical records (*Radio Medical optegnelsen*).
- Record, control document and user guidelines B and CR (*Fortegnelse, kontroldokument og brugervejledning A og CR*).
- Publications issued by the Danish Maritime Authority and the Danish Fishermen's Occupational Health Service.
- IMDG Code, supplementary part, MFAG.

Training programme for basic course – medical caretaker certificate C

1. Purpose

That the participant, through active participation in the training programme, shall acquire skills so that he can act independently on board with first-aid as well as be the person responsible when treating sick and injured persons in case of illness and accidents on board ships with a medicine chest category C.

2. Objective of the learning outcome

The objective of the learning outcome includes the knowledge, the skills and the competences that the participant is to acquire in relation to the use of the contents of medicine chest category C.

Knowledge

Participants in basic training for medical caretaker certificate C

- 1) has basic knowledge about hygiene as well as an understanding of modes of transmission and prevention of dissemination and can carry out first-aid procedures in consideration of the hygienic principles;
- 2) has knowledge about the Radio Medical function.
- 3) has knowledge about medicine chest category CR.

Participants with MFAG as a part of the course:

- 1) has knowledge about the Medical First Aid Guide (MFAG).

Skills

Participants in basic training for medical caretaker certificate C

- 1) can request help;
- 2) can use the Danish Maritime Authority's "Record, control document and user guidelines C and CR" (*Fortegnelse, kontroldokument og brugervejledning C og CR*);
- 3) can carry out first-aid, the handling of medicaments and use the contents of medicine chest category C.

Participants with MFAG as a part of the course

- 1) can use the Medical First Aid Guide (MFAG).

Competences

Participants in basic training for medical caretaker certificate C

- 1) can carry out first-aid procedures independently in accordance with the approved courses of the Danish First-Aid Council (*Dansk Førstehjælpsråd*), containing the modules: heart-lung rescue, incl. AED, life-saving first aid, first aid in case of injury and first aid in case of illness;
- 2) can define their own competences.

3. Contents

- Council directive 92/29/EEC.
- Legal basis.
- Medicine chest categories C and CR.

- Heart-lung rescue.
- Life-saving first aid.
- First aid in case of injury.
- First aid in case of illness.
- Hypothermia.
- Hygiene and modes of transmission.
- Communication with Radio Medical.

If the ship is carrying dangerous goods, the contents of the training programme shall be supplemented by:

- Medicine chest category C, incl. MFAG.
- Injection technique.
- Mobile resuscitation equipment, including tongue depressor.

The teaching in injection technique, the use of suction and ventilator on masks shall be carried out by a nurse.

4. Framework, methods and course participant approval

The first aid teaching shall be carried out in accordance with the approved courses of the Danish First-Aid Council (*Dansk Førstehjælpsråd*), containing the modules: heart-lung rescue, life-saving first aid, first aid in case of injury and first aid in case of illness.

The teaching shall be arranged with focus on course participant activities for two-thirds of the time.

- Participation in all lessons.
- Meet well prepared and take an active part in the lessons.
- Meet knowledge, skills and attitude objectives.

Participants with MFAG as a part of the course:

The course shall be carried out under conditions that are realistic for the seafarer and with the contents available in a medicine chest category C with MFAG.

- Be able to carry out the invasive procedures on a fellow course participant.

When training invasive procedures, the number of participants per instructor shall be eight.

5. Qualifications/admission requirements

The course participant shall have been admitted to the safety course for commercial fishermen, be registered as a commercial fisherman or have acquired 24 months of seagoing service.

Participants with MFAG as a part of the course:

The course participant shall have been admitted to the engineer officer training programme, cf. order no. 1331 of 17 December 2012 on the engineer officer training programme, or have been appointed to function as the one responsible for “Medical first aid” on board.

Persons who, as part of their job function, are required to have completed the training programme “Medical first aid”.

6. Duration

Two days.

If supplemented by MFAG, the teaching period will be increased by 4 hours.

7. References

- Council Directive 92/29/EEC and Council Directive 2008/106/EC.
- STCW A-VI/4, paragraph 1-3, tables A-VI/4-1.
- Notice A from the Danish Maritime Authority, chapter IX B.
- The Medical Book for Seafarers (*Lægebog for Søfarende*).
- Radio Medical records (*Radio Medical optegnelsen*).
- The Danish Maritime Authority's Record, control document and user guidelines C and CR (*Fortegnelse, kontroldokument og brugervejledning C og CR*).
- Publications issued by the Danish Maritime Authority, Seahealth Denmark and the Danish Fishermen's Occupational Health Services.
- First aid book approved by the Danish First-Aid Council (*Dansk Førstehjælpsråd*).
- IMDG Code, with supplement MFAG.

8. Remarks

It is possible to issue a first aid certificate. Certificates shall observe the guidelines issued by the Danish First-Aid Council (*Dansk Førstehjælpsråd*) on their issuance.

Training programme for supplementary course from medical caretaker certificate B to medical caretaker certificate A

1. Purpose

That the participant, through active participation in the training programme, shall acquire skills so that he can act independently on board with pre-hospital procedures treating sick and injured persons on board ships with a medicine chest category A.

2. Objective of the learning outcome

The objective of the learning outcome includes the knowledge, the skills and the competences that the participant is to acquire in relation to the supplement of the contents from medicine chest category B to medicine chest category A.

Knowledge

Participants in supplementary training from medicine chest category B to medicine chest category A

- 1) has knowledge about occupational health, focusing on food, nutrition, exercise and fatigue;
- 2) can identify, examine, handle and look after injured and sick persons;
- 2) can observe objective and subjective symptoms and document values;
- 3) has basic knowledge about anatomy and physiology related to each individual lesson;
- 4) has knowledge about abuse of psychoactive substances.

Skills

Participants in supplementary training from medicine chest category B to medicine chest category A

- 1) can identify and use the mobile resuscitation equipment;
- 2) can use the “Medical Book for Seafarers” (*Lægebog for Søfarende*), “Radio Medical records” (*Radio Medical optegnelser*) and the Danish Maritime Authority’s “Record, control document and user guidelines A” (*Fortegnelse, kontroldokument og brugervejledning A*);
- 3) can carry out independently the pre-hospital procedures mentioned in the “Medical Book for Seafarers” (*Lægebog for Søfarende*).

Competences

Participants in supplementary training from medicine chest category B to medicine chest category A

- 1) Can function as the Radio Medical doctor’s eyes, ears and hands when treating a sick or injured person by using the contents of the “Medical Book for Seafarers” (*Lægebog for Søfarende*), the “Record, control document and user guidelines category B” (*Fortegnelse, kontroldokument og brugervejledning Kategori B*), and “Radio Medical records” (*Radio Medical optegnelser*) under the framework of current law.

3. Contents

- Legal basis.
- Medicine chest categories A and CR.
- Objective values.
- Examination and care of sick or injured person.

- Practical training of invasive procedures:
 - Insertion of a venous cannula, to be trained on a dummy. To be finalised by a successful insertion of a venous cannula, including insertion and observation of intravenous fluids, on a fellow course participant.
 - Injection techniques, to be trained on a dummy. To be finalised by a successful injection on a fellow course participant.
- Control of fluid balance and insertion of a urethral catheter.
- Infectious diseases, including tropical diseases and vaccinations.
- Head, neck and back injuries.
- Dental damage.
- Ear, nose, throat injuries and diseases.
- Haemorrhages, including shock.
- Joint fractures, including application of plaster cast.
- Women's diseases and delivery.
- Treatment of wounds, focusing on the use of skin glue.
- Food in relation to the current guidelines of the Danish Veterinary and Food Administration and the food directive.
- Sleep in relation to fatigue and provisions on hours of rest.
- Abuse of psychoactive substances.
- Hypothermia, frost-bite.
- Cooperation with Radio Medical and the Radio Medical record.
- Hygiene.
- Sexually transmitted diseases.

4. Framework, methods and course participant approval

The training shall be carried out under conditions that are realistic for the seafarer and with the contents that supplements the B chest to the contents of an A chest.

The teaching shall be arranged, focusing on practical exercises for about two-thirds of the time.

- Participation in all lessons.
- Meet well prepared and take an active part in the lessons.
- Meet knowledge, skills and attitude objectives.
- Be able to carry out the invasive procedures on a fellow course participant.
- When training invasive procedures, the number of participants per instructor shall be eight.

5. Qualifications/admission requirements

The course participant shall have completed the basic training for medical caretaker certificate B during the last 12 months.

6. Duration

Five days.

7. References

- Council Directive 92/29/EEC and Council Directive 2008/106/EC.
- STCW A-VI/4, paragraph 1-6, tables A-VI/4-1 and A-VI/4-2.
- Notice A from the Danish Maritime Authority, chapter IX B.
- The Medical Book for Seafarers (*Lægebog for Søfarende*).
- Radio Medical records (*Radio Medical optegnelsen*).
- Record, control document and user guidelines B and CR (*Fortegnelse, kontroldokument og brugervejledning B og CR*).
- Publications issued by the Danish Maritime Authority, Seahealth Denmark and the Danish Fishermen's Occupational Health Services.
- IMDG Code, supplementary part, MFAG.

Training programme for supplementary course for seafarers from countries outside the EU and EEA

1. Purpose

That the participant supplements his STCW skills and competences in accordance with Council Directive 92/29/EEC of 31 March 1992 on the minimum safety and health requirements for improved medical treatment on board vessels, Notice A, chapter IX B, and this order.

2. Objective of the learning outcome

The objective of the learning outcome includes the knowledge, the skills and the competences that the participant is to acquire in relation to acquiring a Danish medical caretaker certificate A.

Knowledge

Participants in supplementary training for a Danish medical caretaker certificate A

- 1) has knowledge about the Danish maritime health system;
- 2) has knowledge about the functioning of Radio Medical Denmark, including cooperation and legislative requirements for documentation;
- 3) has knowledge about the EU requirements for medicine chest category A, the medicine chests of life-rafts and lifeboats of category CR;
- 4) has knowledge about maritime life support;
- 5) has knowledge about the antibiotic policy of the Danish Health and Medicines Authority.

Skills

Participants in supplementary training for a Danish medical caretaker certificate A

- 1) can use the medicine and medical equipment of medicine chest category A;
- 2) can carry out ordained procedures, cf. the “Medical Book for Seafarers” (*Lægebog for Søfarende*),
- 3) can make a Radio Medical record, cf. the legislative requirements in force;
- 4) can carry out procedures in accordance with maritime life support.

Competences

Participants in supplementary training for a Danish medical caretaker certificate A

- 1) Can function as the Radio Medical doctor’s eyes, ears and hands when treating a sick or injured person by using the contents of the “Medical Book for Seafarers” (*Lægebog for Søfarende*), the “Record, control document and user guidelines” (*Fortegnelse, kontroldokument og brugervejledning*), and “Radio Medical records” (*Radio Medical optegnelser*) under the framework of current law.

3. Contents

- Legal basis (Directive 92/29/EEC of 31 March 1992 on the minimum safety and health requirements for improved medical treatment on board vessels, and Notice A, chapter IX B) as well as selected parts of the health legislation in Denmark.
- Practical use of the contents of medicine chest category A and CR.
- Reflections on one’s own practice in relation to the described ethical guidelines.

- Practical training in the use of pre-hospital procedures in connection with diseases, including the making of Radio Medical records.
- Practical training in the use of pre-hospital procedures in connection with accidents, including the making of Radio Medical records.
- Practical training of invasive procedures:
 - Insertion of a venous cannula, to be trained on a dummy. To be finalised by a successful insertion of a venous cannula, including insertion and observation of intravenous fluids, on a fellow course participant.
 - Injection techniques, to be trained on a dummy. To be finalised by a successful injection on a fellow course participant.
 - Diagnostic examinations are trained on a fellow course participant.
- Practical training in the following procedures:
 - Eye examination, including the removal of foreign bodies.
 - Emergency dental treatment, including broken tooth, lost tooth, lost filling and tooth abscess.
 - Treatment of wounds, including observations, cleaning, suturation, the use of skin glue, strips.
 - Insertion of a urethral catheter and a urine stix.
 - Malaria test.
 - Blood sugar measurement.
 - Heart-lung rescue, incl. the use of a ventilation bag and AED.
 - Hand hygiene, incl. the use of gloves and other protective equipment.
 - Making a complete Radio Medical record.
 - Communication with Radio Medical.
 - Handling persons with mental crises and acute psychosis.
 - Debriefing.
 - Handling hyperthermic persons.

4. Framework, methods and course participant approval

The training shall be carried out under conditions that are realistic for the seafarer and with the contents of medicine chest category A.

The teaching shall be arranged, focusing on practical exercises for about two-thirds of the time.

- Participation in all lessons.
- Meet well prepared and take an active part in the lessons.
- Meet knowledge, skills and attitude objectives.
- Be able to carry out the invasive procedures on a fellow course participant.
- When training invasive procedures, the number of participants per instructor shall be eight.

The number of participants per instructor shall be eight during practical training.

5. Qualifications/admission requirements

The course participant shall hold a valid certificate for having completed medical care, cf. the STCW-78 Convention, as amended, A-VI/4, paragraph 1-6, tables A-VI/4-1 and A-VI/4-2.

6. Duration

Five days.

In case high-technological medical simulation equipment approved by the Danish Maritime Authority is used for the practical exercises, the training period may be reduced to four days.

7. References

- Council Directive 92/29/EEC of 31 March 1992 on minimum safety and health requirements for improved medical treatment on board vessels.
- Notice A from the Danish Maritime Authority, chapter IX B.
- Parts of the health legislation in Denmark.
- The Medical Book for Seafarers (*Lægebog for Søfarende*).
- Radio Medical records (*Radio Medical optegnelsen*).
- The Danish Maritime Authority's record, control document and user guidelines A and CR (*Fortegnelse, kontroldokument og brugervejledning A og CR*).
- Publications issued by the Danish Maritime Authority, Seahealth Denmark and the Danish Fishermen's Occupational Health Services.

Training programme for refresher course for medical caretaker certificate A

1. Purpose

That the participant, through active participation in the course, trains and maintains his skills in pre-hospital procedures and acquires new knowledge so that the qualification as a medical caretaker can be maintained on the basis of the Radio Medical records (*Radio Medical optegnelse*), the “Medical Book for Seafarers” (*Lægebog for Søfarende*) and the “Record, control document and user guidelines” (*Fortegnelse, kontrol dokument og brugervejledning*).

2. Objective of the learning outcome

The objective of the learning outcome includes the knowledge, the skills and the competences that the participant is to acquire in relation to maintaining the medical caretaker certificate A.

Knowledge

Participants in the refresher course for medical caretaker certificate A

- 1) has knowledge about the most recent legal basis for medical care at sea;
- 2) has knowledge about the procedures of first aid and medical care and can carry out these;
- 3) has an understanding of Radio Medical records (*Radio Medical optegnelser*), the Danish Maritime Authority’s “Record, control document and user guidelines” (*Fortegnelse, kontrol dokument og brugervejledning*) and the Medical Book for Seafarers (*Lægebog for Søfarende*) in case of accidents or illness.

Skills

Participants in the refresher course for medical caretaker certificate A

- 1) can demonstrate practical skills in the most common pre-hospital procedures on board in case of accidents and illness;
- 2) can demonstrate skills in the use of prescriptions from Radio Medical on the basis of the explanation received from the Radio Medical doctor, the “Medical Book for Seafarers” (*Lægebog for Søfarende*), the “Record, control document and user guidelines category A” (*Fortegnelse, kontrol dokument og brugervejledning Kategori A*), and “Radio Medical records” (*Radio Medical optegnelser*)

Competences

Participants in the refresher course for medical caretaker certificate A

- 1) Can function as the Radio Medical doctor’s eyes, ears and hands when treating a sick or injured person by using the contents of the “Medical Book for Seafarers” (*Lægebog for Søfarende*), the “Record, control document and user guidelines” (*Fortegnelse, kontrol dokument og brugervejledning*), and “Radio Medical records” (*Radio Medical optegnelser*) under the framework of current law.

3. Contents

- Medicine and medical equipment.
- Manuals.
- Legislation in medical care at sea.
- Training in new diagnostic procedures.
- Training in new/changed treatment procedures.

- Practical re-training of pre-hospital procedures in connection with diseases and accidents on board.
- Practical training of invasive procedures:
 - Insertion of a venous cannula, to be trained on a dummy. To be finalised by a successful insertion of a venous cannula, including insertion and observation of intravenous fluids, on a fellow course participant.
 - Injection techniques, to be trained on a dummy. To be finalised by a successful injection on a fellow course participant.
 - Diagnostic examinations to be trained on a fellow course participant.

4. Framework, methods and course participant approval

The training programme shall be carried out under conditions that are realistic for the seafarer and with the contents available in a medicine chest category A.

- The teaching shall be arranged as refresher course, focusing on course participant activities for 90 per cent of the time.
- Participation in all lessons.
- Meet well prepared and take an active part in the lessons.
- Meet knowledge, skills and attitude objectives.
- Be able to carry out the invasive procedures on a fellow course participant.
- When training invasive procedures, the number of participants per instructor shall be eight.

5. Requirements

The participant shall hold a valid certificate A in accordance with Council Directive 92/29/EEC and the STCW-78 Convention, as amended, regulation A-VI/4, paragraph 1-6, tables A-VI/4-1 and A-VI/4-2. It shall be possible to admit persons on the basis of a separate assessment of their actual competences when re-acquiring certificates of competency or medical caretaker certificates category A.

6. Duration

Four days.

Remark:

In case high-technological medical simulation equipment approved by the Danish Maritime Authority is used for the practical exercises, the training period may be reduced to three days.

7. References

- Council Directive 92/29/EEC.
- STCW A-VI/4, paragraph 1-6, tables A-VI/4-1 and 4-2.
- Notice A from the Danish Maritime Authority, chapter IX B.
- The Medical Book for Seafarers (*Lægebog for Søfarende*).
- Radio Medical records (*Radio Medical optegnelse*).
- The Danish Maritime Authority's "Record, control document and user guidelines A" (*Fortegnelse, kontroldokument og brugervejledning A*).
- Publications issued by the Danish Maritime Authority, Seahealth Denmark and the Danish Fishermen's Occupational Health Services.

Training programme for refresher course for medical caretaker certificate B

1. Purpose

That the participant, through active participation in the course, trains and maintains his skills in pre-hospital procedures and acquires new knowledge so that the qualification as a medical caretaker can be maintained on the basis of the “Radio Medical records” (*Radio Medical optegnelse*), the “Medical Book for Seafarers” (*Lægebog for Søfarende*) and the “Record, control document and user guidelines category B” (*Fortegnelse, kontrol dokument og brugervejledning kategori B*).

2. Objective of the learning outcome

The objective of the learning outcome includes the knowledge, the skills and the competences that the participant is to acquire in relation to maintaining the medical caretaker certificate B.

Knowledge

Participants in the refresher course for certificate B

- 1) has knowledge about the most recent legal basis for medical care at sea;
- 2) has knowledge about any new procedures on pre-hospital care;
- 3) has an understanding of “Radio Medical records” (*Radio Medical optegnelser*), the Danish Maritime Authority’s “Record, control document and user guidelines category B” (*Fortegnelse, kontrol dokument og brugervejledning kategori B*) and the “Medical Book for Seafarers” (*Lægebog for Søfarende*) in case of accidents or illness.

Skills

Participants in the refresher course for certificate B

- 1) can demonstrate practical skills in the most common pre-hospital procedures on board in case of accidents and illness;
- 2) can demonstrate skills in the use of prescriptions from Radio Medical on the basis of the explanation received from the Radio Medical doctor, the “Danish Maritime Authority’s Authorised Medical Book” (*Søfartsstyrelsens Autoriserede Lægebog*), the Danish Maritime Authority’s “Record, control document and user guidelines” (*Fortegnelse, kontrol dokument og brugervejledning*), and “Radio Medical records” (*Radio Medical optegnelser*)

Competences

Participants in the refresher course for certificate B

- 1) Shall function as the Radio Medical doctor’s eyes, ears and hands when treating a sick or injured person by using the contents of the “Medical Book for Seafarers” (*Lægebog for Søfarende*), the “Record, control document and user guidelines” (*Fortegnelse, kontrol dokument og brugervejledning*), and “Radio Medical records” (*Radio Medical optegnelser*) under the framework of current law.

3. Contents

- Medicine and medical equipment.
- Manuals.
- Legislation in medical care at sea.
- Training in new diagnostic procedures.

- Training in new/changed treatment procedures.
- Practical re-training of pre-hospital procedures in connection with diseases and accidents on board.
- Practical training of invasive procedures:
 - Insertion of a venous cannula, to be trained on a dummy. To be finalised by a successful insertion of a venous cannula, including insertion and observation of intravenous fluids, on a fellow course participant.
 - Injection techniques, to be trained on a dummy. To be finalised by a successful injection on a fellow course participant.
 - Diagnostic examinations to be trained on a fellow course participant.

4. Framework, methods and course participant approval

The course shall be carried out under conditions that are realistic for the seafarer and with the contents available in a medicine chest category B.

The teaching shall be arranged as refresher course, focusing on course participant activities for 90 per cent of the time.

- Participation in all lessons.
- Meet well prepared and take an active part in the lessons.
- Meet knowledge, skills and attitude objectives.
- Be able to carry out the invasive procedures on a fellow course participant.
- When training invasive procedures, the number of participants per instructor shall be eight.

5. Requirements

The participant shall hold a valid certificate B in accordance with Council Directive 92/29/EEC and the STCW-78 Convention, as amended, regulation A-VI/4, paragraph 1-6, tables A-VI/4-1 and A-VI/4-2.

It shall be possible to admit persons on the basis of a separate assessment of their actual competences when re-acquiring certificates of competency or medical caretaker certificates category B.

6. Duration

Three days.

Remark:

In case high-technological medical simulation equipment approved by the Danish Maritime Authority is used for the practical exercises, the training period may be reduced to two days.

7. References

- Council Directive 92/29/EEC.
- STCW A-VI/4, paragraph 1-6, tables A-VI/4-1 and 4-2.
- Notice A from the Danish Maritime Authority, chapter IX B.
- The “Medical Book for Seafarers” (*Lægebog for Søfarende*).
- “Radio Medical records” (*Radio Medical optegnelsen*).

- The “Record, control document and user guidelines categories B and CR” (*Fortegnelse, kontrol dokument og brugervejledning kategori B og CR*).
- Publications issued by the Danish Maritime Authority, Seahealth Denmark and the Danish Fishermen’s Occupational Health Services.

Training programme for refresher course for medical caretaker certificate C

1. Purpose

That the participant, through active participation in the course, trains and maintains his skills in first aid procedures and acquires new knowledge so that the qualification as a medical caretaker certificate C can be maintained.

2. Objective of the learning outcome

The objective of the learning outcome includes the knowledge, the skills and the competences that the participant is to acquire in relation to maintaining the medical caretaker certificate C.

Knowledge

Participants in the refresher course for medical caretaker certificate C

- 1) has knowledge about the most recent legal basis for medical care at sea;
- 2) has knowledge about any new equipment/medicine in medicine chest category C;
- 3) has knowledge about updates in first aid.

Skills

Participants in the refresher course for medical caretaker certificate C

- 1) can carry out treatment-related procedures as described in the “Medical Book for Seafarers” (*Lægebog for Søfarende*), using the contents of medicine chest category C with special focus on accidents;
- 2) can use new first aid procedures.

Competences

Participants in the refresher course for medical caretaker certificate C

- 1) can demonstrate a critical attitude to a prescription on the basis of the “Record, control document and user guidelines” (*Fortegnelse, kontroldokument og brugervejledning*) and updated first aid guidelines;
- 2) can use the knowledge and skills acquired.

3. Contents

- Medicine and medical equipment.
- Manuals.
- Legislation in medical care at sea.
- The maintenance module in accordance with the training plan of the Danish First-Aid Council (*Dansk Førstehjælpsråd*).

4. Framework, methods and course participant approval

The course shall be carried out under conditions that are realistic for the seafarer and with the contents available in a medicine chest category C.

The teaching shall be arranged as a refresher course, focusing on course participant activities for 90 per cent of the time.

- Participation in all lessons.

- Meet well prepared and take an active part in the lessons.
- Meet knowledge, skills and attitude objectives.

The teaching shall be arranged in accordance with the most common diseases and accidents on board.

5. Requirements

The participant shall hold a valid medical caretaker certificate C.

It shall be possible to admit persons on the basis of a separate assessment of their actual competences when re-acquiring certificates of competency or medical caretaker certificates category C.

6. Duration

One day.

7. References

- Notice A from the Danish Maritime Authority, chapter IX B.
- The “Medical Book for Seafarers” (*Lærebog for Søfarende*).
- The Danish Maritime Authority’s “Record, control document and user guidelines category C” (*Fortegnelse, kontroldokument og brugervejledning kategori C*).
- Publications issued by the Danish Maritime Authority, Seahealth Denmark and the Danish Fishermen’s Occupational Health Services.
- First aid books using the recommendations of the Danish First-Aid Council (*Dansk Førstehjælpsråd*).

8. Remarks

It shall be possible to issue a first aid certificate with documentation of maintenance. The first aid certificate shall be maximum 3 years old.

Training programme for refresher course for medical caretaker certificate C, including MFAG/passengers

1. Purpose

That the participant, through active participation in the course, acquires skills so that he can act independently on board with first aid procedures and be the responsible medical caretaker when treating sick and injured persons on ships with medicine chest category C with MFAG and/or supplement category P.

2. Objective of the learning outcome

The objective of the learning outcome includes the knowledge, the skills and the competences that the participant is to acquire in relation to the contents of medicine chest category C, including MFAG and/or supplement category P.

Knowledge

Participants in the refresher course for medical caretaker certificate C, including MFAG and/or supplement category P

- 1) has knowledge about the most recent version of Notice A from the Danish Maritime Authority, chapter IX B;
- 2) has knowledge about any new equipment/medicine in medicine chest category C, including MFAG and/or supplement category P.

Skills

Participants in the refresher course for medical caretaker certificate C, including MFAG and/or supplement category P

- 1) can use the Danish Maritime Authority's "Record, control document and user guidelines category C, including MFAG and/or supplement category P" (*Fortegnelse, kontroldokument og brugervejledning kategori C, inkl. MFAG og/eller supplement kategori P*);
- 2) can carry out medicine handling and use the contents of medicine chest category C, incl. MFAG and/or supplement category P;
- 3) can carry out first aid and pre-hospital procedures.

Competences

Participants in the refresher course for medical caretaker certificate C, incl. MFAG and/or supplement category P

- 1) can carry out first aid procedures independently in case of diseases and injuries to those on board;
- 2) can document the treatment carried out;
- 3) can communicate with Radio Medical.

3. Contents

- New medicine and medical equipment.
- New manuals.
- New legislation in medical care at sea.
- Training in new diagnostic procedures.
- Training in new/changed treatment procedures.

- Practical re-training of first aid and pre-hospital procedures in connection with diseases and accidents on board.
- Practical training of invasive procedures:
 - Insertion of a venous cannula, to be trained on a dummy. To be finalised by a successful insertion of a venous cannula, including insertion and observation of intravenous fluids, on a fellow course participant.
 - Injection techniques, to be trained on a dummy. To be finalised by a successful injection on a fellow course participant.
 - Diagnostic examinations to be trained on a fellow course participant.

4. Framework, methods and course participant approval

The course shall be carried out under conditions that are realistic for the seafarer and with the contents available in a medicine chest category C, incl. MFAG and/or supplement category P.

The teaching shall be arranged as refresher course, focusing on course participant activities for 90 per cent of the time.

- Participation in all lessons.
- Meet well prepared and take an active part in the lessons.
- Meet knowledge, skills and attitude objectives.
- Be able to carry out the invasive procedures on a fellow course participant.
- When training invasive procedures, the number of participants per instructor shall be eight.

The teaching shall be arranged in accordance with the most common diseases and accidents on board.

5. Requirements

The participant shall hold a valid medical caretaker certificate A, B or C, incl. MFAG and/or supplement category P. It shall be possible to admit persons on the basis of a separate assessment of their actual competences when re-acquiring certificates of competency or medical caretaker certificates category A, B or C, incl. MFAG and/or supplement category P.

6. Duration

Two days.

7. References

- Notice A from the Danish Maritime Authority, chapter IX B.
- The “Medical Book for Seafarers” (*Lægebog for Søfarende*).
- The “Radio Medical record”.
- The Danish Maritime Authority’s “Record, control document and user guidelines category C, incl. MFAG and/or supplement category P” (*Fortegnelse, kontrol dokument og brugervejledning kategori C, inkl. MFAG og/eller supplement kategori P*).
- Publications issued by the Danish Maritime Authority, Seahealth Denmark and the Danish Fishermen’s Occupational Health Services.
- The IMDG Code with supplement MFAG.

Training programme Course for teachers

1. General

The course shall be completed by persons who are to carry out the teaching in the maritime medical caretaker courses at the training institutions approved by the Danish Maritime Authority.

2. Purpose

The purpose is to provide the teacher with the knowledge, skills and attitudes – both professionally and educationally – necessary for the teacher to arrange, carry out and control the teaching independently at the maritime medical caretaker courses. The course is to ensure that the teacher is familiar with the relevant training programmes and material used in the teaching of the relevant course, including the legislation in force.

The purpose is, furthermore, to promote the exchange of experience between the teaching institutions in order to develop the courses and establish an educational and professional network.

3. Objective of the learning outcome

The objective of the learning outcome includes the knowledge, the skills and the competences that the course participant is to acquire from the training programme.

Knowledge

Participants in sequences at the maritime medical caretaker courses

- 1) have knowledge about national and international legislation in the field;
- 2) have knowledge about the Danish maritime health system (Radio Medical Denmark, the Centre for Maritime Health Service, Seahealth Denmark, the Danish Fishermen's Occupational Health Services, the Danish Maritime Authority);
- 3) have knowledge about the relevant medicine chest categories;
- 4) have knowledge about the manuals used at the courses;
- 5) have knowledge about the options on the webpage of the Danish Maritime Authority.

Skills

Participants in sequences at the maritime medical caretaker courses

- 1) can develop teaching plans;
- 2) can plan and carry out theoretical and practical lessons in accordance with the training programme for the course in the relevant medical caretaker certificate;
- 3) can, through the teaching and by using control forms, document that the objective of the teaching has been reached;
- 4) can, in the teaching, use the tools that the participant must use in case of accidents or diseases on board, including the "Medical Book for Seafarers" (*Lægebog for Søfarende*), the "Record, control document and user guidelines" (*Fortegnelse, kontrol dokument og brugervejledning*), "Radio Medical records" and publications issued by the Danish Maritime Authority;
- 5) can carry out a documented evaluation;
- 6) can carry out the invasive procedures so that they are approved by the responsible doctor or by the medical management at Radio Medical Denmark;

7) are able to argue in favour of the educational principles used.

Competences

Participants in sequences at the maritime medical caretaker courses

- 1) can independently carry out the teaching of courses in accordance with the professional and educational objectives;
- 2) have been approved by the responsible doctor or the medical management at Radio Medical Denmark to provide instructions in invasive procedures.

4. Requirements

Participants shall meet the qualification requirements of this order.

Furthermore, it shall be a precondition that the person in question is to function as a teacher in the maritime medical caretaker courses at his own training institution immediately after the introductory course.

5. Extent

The course shall be arranged on the basis of the future teacher's competences, previous teaching experience, educational training, previous employment and in relation to the course that he is to teach.

6. Arrangement and carrying out

The course shall be arranged and carried out by the Danish Maritime Authority, the Centre for Maritime Health Service, in cooperation with the person at the Danish Maritime Authority responsible for the medico-professional field.

7. Tests and control

After the course, it shall be possible to provide supervision through a trained supervisor from the Danish Maritime Authority, the Centre for the Maritime Health Service.

**Safety equipment, teaching facilities and teaching material for
basic, refresher and supplementary courses for certificate A**

1. Classroom

- Well-lit room with teaching aids (projector, computer, internet, board).
- Washable floor.
- Litter bins.
- Access to washbasin, soap and disposable towels.
- Training room(s) making possible triage, emergency moving, training with spineboard and stretcher.

2. Pre-hospital equipment

- Mobile resuscitation equipment with contents.
- Spineboard and stretcher, cf. Notice A from the Danish Maritime Authority, chapter IX B.

3. Collars and Urias bandage

- Adjustable collars.
- Inflatable splints for arms and legs, including mouthpieces and saliva collector.

4. Intravenous training

- Dummies for intravenous training.
- Approved needle bins with fixed lids.
- Tourniquets and fixation plaster.
- Intravenous fluids and infusion set.
- Mattresses and pillows, with washable cover.
- Intravenous fluid stand.

5. Wounds and make-up box

- Relevant wounds, make-up, blood in connection with the planned case.

6. Manuals

- Notice A from the Danish Maritime Authority, chapter IX B.
- The Danish Maritime Authority's "Authorised Medical Book" ("Autoriserede Lægebog").
- The "Radio Medical record".
- The Danish Maritime Authority's "Record, control document and user guidelines" (Fortegnelse, kontrol dokument og brugervejledning), relevant category for the course.
- Publications issued by the Danish Maritime Authority.
- One copy shall be available per course participant.
- In addition, the current IMDG Code, including supplement MFAG, shall be available.

7. Procedural training

- Dummy or dummies, possibility of using tongue-depressor, catheter and giving birth.
- Phantoms and ventilation bags for training heart lung rescue.
- Practice AEDs.
- Blood sugar apparatus.
- Penicillin lamps.
- Malaria test.
- Blood pressure apparatus.
- Thermometers.
- Saturation measurer.
- Urine stix.
- Pregnancy test.
- Teeth with treatment utensils.
- Instruments for eye examination, including eye colouring, placebo eye ointment, sterile cotton swabs and eye patches.
- Complete medicine chest corresponding to the course, incl. mobile resuscitation equipment as well as placebo medicine for training.
- Suturing instruments, incl. sutures, placebo local anaesthetic, sterile surgical drapes.
- Bandages, plaster, dermabond, syringes, gloves, swabs for exercises.
- Spineboards and stretchers, cf. the Danish Maritime Authority's requirements.
- Blankets.
- Finger splints.
- Plaster, food cotton wool, ice bags and elastic bandages.
- Urine bottles.
- Anti-shock blankets.
- Oxygen masks.

8. Anatomy/physiology

- Skeleton.
- Organ dummy.

9. Miscellaneous

Any high-technological medical simulation equipment for practical exercises shall be approved by the Danish Maritime Authority.

Safety equipment, teaching facilities and teaching material for basic and refresher courses for certificate B

1. Classroom

- Well-lit room with teaching aids (projector, computer, internet and board).
- Washable floor.
- Litter bins.
- Access to washbasin, soap and disposable towels.
- Training room(s) making possible triage, emergency moving, training with spineboard and stretcher.

2. Pre-hospital equipment

- Mobile resuscitation equipment with contents.
- Spineboard and stretcher, cf. Notice A from the Danish Maritime Authority, chapter IX B.

3. Collars and Urias bandage

- Adjustable collars.
- Inflatable splints for arms and legs, including mouthpieces and saliva collector.

4. Intravenous training

- Dummies for intravenous training.
- Approved needle bins with fixed lids.
- Tourniquets and fixation plaster.
- Intravenous fluids and infusion set.
- Mattresses and pillows, with washable cover.
- Intravenous fluid stand.

5. Wounds and make-up box

- Relevant wounds, make-up, blood in connection with the planned case.

6. Manuals

- Notice A from the Danish Maritime Authority, chapter IX B.
- The “Medical Book for Seafarers” (*Lægebog for Søfarende*).
- The “Radio Medical record”.
- The Danish Maritime Authority’s “Record, control document and user guidelines” (*Fortegnelse, kontrol dokument og brugervejledning*), relevant category for the course.
- Publications issued by the Danish Maritime Authority, Seahealth Denmark and the Danish Fishermen’s Occupational Health Services.
- One copy shall be available per course participant.
- In addition, the current IMDG Code, including supplement MFAG, shall be available.

7. Procedural training

- Dummy or dummies, possibility of using tongue-depressor, catheter.
- Phantoms and ventilation bags for training heart lung rescue.
- Practice AEDs.
- Blood sugar apparatuses.
- Penicillin lamps.
- Blood pressure apparatus.
- Thermometers.
- Saturation measurer.
- Urine stix.
- Pregnancy test.
- Instruments for eye examination, including eye colouring, placebo eye ointment, sterile cotton swabs and eye patches.
- Complete medicine chest corresponding to the course, incl. mobile resuscitation equipment as well as placebo medicine for training.
- Suturing instruments, incl. sutures, placebo local anaesthetic, sterile surgical drapes.
- Bandages, plaster, dermabond, syringes, gloves, swabs for exercises.
- Spineboards and stretchers, cf. the Danish Maritime Authority's requirements.
- Blankets.
- Finger splints.
- Plaster, food cotton wool, ice bags and elastic bandages.
- Urine bottles.
- Anti-shock blankets.
- Oxygen masks.

8. Anatomy/physiology

- Skeleton.
- Organ dummy.

9. Miscellaneous

Any high-technological medical simulation equipment for practical exercises shall be approved by the Danish Maritime Authority.

Safety equipment, teaching facilities and teaching material for basic and refresher courses for medical caretaker certificate C

1. Classroom

- Well-lit room with teaching aids (projector, computer, internet, board).
- Washable floor.
- Litter bins.
- Access to washbasin, soap and disposable towels.
- Training room(s) making possible practical first aid exercises.

2. Medical equipment

- Medicine chest category C.

3. Wounds and make-up box

- Relevant wounds, make-up, blood in connection with the planned case.

4. Manuals

- Notice A from the Danish Maritime Authority, chapter IX B.
- The “Medical Book for Seafarers” (*Lægebog for Søfarende*).
- The “Radio Medical record”.
- The Danish Maritime Authority’s “Record, control document and user guidelines” (*Fortegnelse, kontrolokument og brugervejledning*), relevant category for the course.
- Publications issued by the Danish Maritime Authority, Seahealth Denmark and the Danish Fishermen’s Occupational Health Services.
- One copy shall be available per course participant.

5. Procedural training

- Dummy or dummies, possibility of using tongue-depressor.
- Phantoms for training heart lung rescue.
- Practice AEDs.
- Complete medicine chest corresponding to the course.
- Bandages, plaster, wound glue, gloves for exercises.
- Blankets.

6. Miscellaneous

Any high-technological medical simulation equipment for practical exercises shall be approved by the Danish Maritime Authority.

**Safety equipment, teaching facilities and teaching material for
basic and refresher courses for medical caretaker certificate C,
incl. MFAG and/or supplement category P**

1. Classroom

- Well-lit room with teaching aids (projector, computer, internet, board).
- Washable floor.
- Litter bins.
- Access to washbasin, soap and disposable towels.
- Training room(s) making possible triage, emergency moving, training with spineboard and stretcher.

2. Pre-hospital equipment

- Mobile resuscitation equipment with contents.
- Spineboard and stretcher, cf. Notice A from the Danish Maritime Authority, chapter IX B.

3. Collars and Urias bandage

- Adjustable collars.
- Inflatable splints for arms and legs, including mouthpieces and saliva collector.

4. Intravenous training

- Dummies for intravenous training.
- Approved needle bins with fixed lids.
- Tourniquets and fixation plaster.
- Intravenous fluids and infusion set.
- Mattresses and pillows, with washable cover.
- Intravenous fluid stand.

5. Wounds and make-up box

- Relevant wounds, make-up, blood in connection with the planned case.

6. Manuals

- Notice A from the Danish Maritime Authority, chapter IX B.
- The Danish Maritime Authority's "Authorised Medical Book" (*Autoriserede Lægebog*).
- The "Radio Medical record".
- The Danish Maritime Authority's "Record, control document and user guidelines" (*Fortegnelse, kontrol dokument og brugervejledning*), relevant category for the course.
- Publications issued by the Danish Maritime Authority, Seahealth Denmark and the Danish Fishermen's Occupational Health Services.
- Delivery records (supplement category P).
- One copy shall be available per course participant.
- In addition, the current IMDG Code, including supplement MFAG, shall be available.

7. Procedural training

- Dummy or dummies, possibility of using tongue-depressor.
- Phantoms and ventilation bags for training heart lung rescue.
- Practice AEDs.
- Blood sugar apparatus.
- Blood pressure apparatus.
- Thermometers.
- Penicillin lamps.
- Saturation measurer.
- Complete medicine chests corresponding to the course, incl. mobile resuscitation equipment as well as placebo medicine for training.
- Bandages, plaster, dermabond, syringes, gloves, swabs for exercises.
- Spineboards and stretchers, cf. the Danish Maritime Authority's requirements.
- Blankets.
- Anti-shock blankets.
- Oxygen masks.

8. Anatomy/physiology

- Skeleton.
- Organ dummy.

9. Miscellaneous

Any high-technological medical simulation equipment for practical exercises shall be approved by the Danish Maritime Authority.