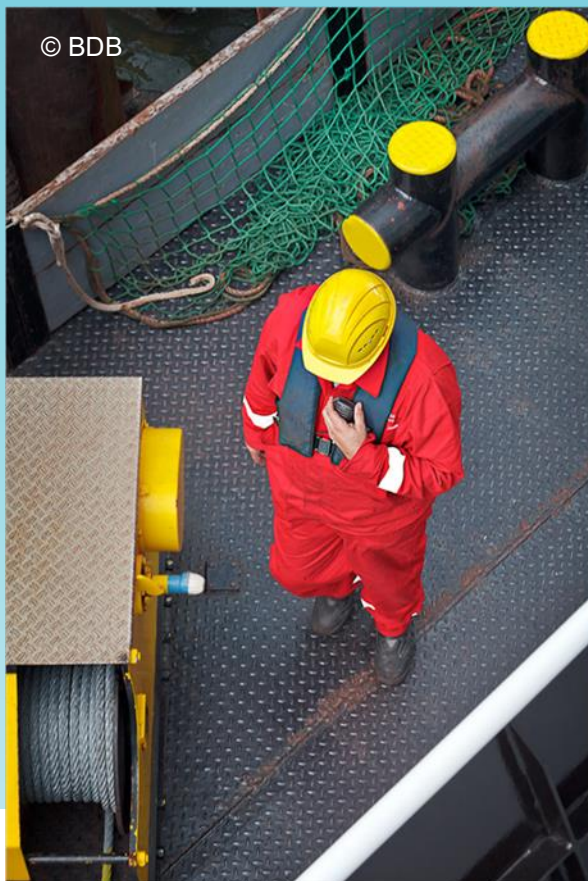


MODEL EXAMINATION AT THE OPERATIONAL LEVEL (OL)



October 2021

Model examination at the operational level (OL)

Introduction

The draft standard for the practical examination on OL sets the framework for practical examinations on OL. To provide guidance to authorities on how to conduct an exam in this regard, the CESNI/QP working group has decided to develop a model examination in accordance with ES-QIN.

Taxonomy

In the draft standard for the practical examination on OL, knowledge and skills elements that shall be tested during the practical examination are specified. Listed are all elements described as describes in the tables of competence standards on OL as “ability”. Skills are usually tested during a practical examination. However, some abilities have knowledge elements.

In this model examination, the term “examination element” is used to indicate both skills and knowledge.

General

The model examination is carried out on the assumption that the applicant has passed the knowledge elements (theoretical examination) from the standards for competence on OL as well as the assessment of the skills that for practical reasons were not assessed on board the craft during this practical part prior to the model examination.

The documentation of these tested competences and examination elements must be submitted by the applicant and be recorded by the authority on the examination report and assessment form.

For practical reasons, the exam is divided into four parts:

Part 1: Navigation

- part 1a Steering the craft (including applicable regulations)
- part 1b Assisting with anchor operations
- part 1c Mooring, unmooring and docking operations for pushed convoys / coupled convoys from deck, including operation and maintenance
- part 1d Loading and unloading

The applicant shall demonstrate that he or she is able to steer the craft under supervision, to assist the boatmaster and to perform all relevant duties on board. Experts recommend the use of a craft of more than 38 meters length.

Part 2: Sailing the craft

Skills shall be demonstrated on an approved simulator or a craft. Experts recommend the use of a craft of more than 38 meters length.

Part 3: Security and communication

- part 3a Safety and environment
- part 3b Communication

In parts 3a and 3b, the applicant shall demonstrate that safety is paramount in all actions carried out. The aspects related to safety and communication must be included in the assessment during the performance of the other examination elements.

Part 4: Technology and maintenance

- part 4a Propulsion engine / machines
- part 4b Marine engineering, electricity, electronics, measurement and control technology
- part 4c Maintenance and repair.

Examination elements

For organizational reasons, the practical exam is divided as follows:

- sailing in practice from the wheelhouse (craft or simulator);
- demonstrating skills on deck or in a suitable installation ashore;
- other skills which, for practical reasons, cannot be tested on board a craft or on a simulator.

Examination elements that can be tested separately

Some examination elements are further subdivided according to the place where they are tested. Not all of these elements can be tested on board of craft used for the practical examination. Examination elements marked with a symbol can be tested separately. These exam elements can also be tested in an approved training programme or as an examination organized under the responsibility of a competent authority.

Examination elements tested separately must have been tested before the final part of practical examination.

Scoring

To obtain a certificate of qualification on OL, according to the draft standards for practical examination on OL category I elements must be rated with a mark of 7 out of 10 or higher.

Category II elements must score an average of 6 out of 10. Therefore, a category II element can be rated lower than 6 out of 10, provided that the average of the 20 elements to be tested is on average rated 6 out of 10 or higher.

Distribution of key competences to be tested

The total practical examination according to the draft standards for practical examination on OL consists of 75 examination elements, consisting of 33 examination elements of category I and 42 examination elements of category II.

All category I examination elements shall be tested according to the standards for practical examination on OL.

20 of the 42 examination elements in category II shall be tested according to the standards for practical examination on OL.

The following distribution key must be applied for this:

- 9 examination elements marked ★ of the total 20 red star exam elements of category II;
- Examination elements numbered 1 to 11, which can be tested in an approved training programme: 2 (out of 4 category II elements of the elements 1 to 11 in total);
- 9 examination elements (of a total of 18 remaining elements not belonging to any group of elements mentioned before) shall be tested in the final part of the practical examination. The examination(s) shall be organized in such a way that all category II elements appear randomly in the examinations.

The competent authority ensures that the category II elements are randomly selected, so that all category II elements are tested equally.

→ In this model exam, as an example, according to the allocation key, the category II elements to be treated have been included in the table of the assessment forms 3, 4 and 7 and examination report.

Skills tested on board of passenger vessels

Depending on the options available, examiners may decide whether to test examination elements related to skills required on board passenger vessels marked with "PASS".

Skill 3.2.3.2 is a category I element and shall be tested. The other 3 skills are of category II of which 2 skills shall be tested.

Marked examination elements

The marked examination elements should be tested as follows:

★ All examination elements with a red star may be tested prior or during a practical examination or in a written assignment. One examination element with a red star is attributed to category I and 20 elements are attributed to category II.

The applicant masters the:

No.	Competence ¹	Examination elements	Part	Cat.
12	2.1.1 (2)	distinguish various types of craft;	2★	II
13	2.1.2 (2)	apply knowledge of the construction of inland waterway craft and their behaviour in water, especially in terms of stability and strength;	2★	II
14	2.1.3 (2)	apply knowledge of the craft's structural parts and identify the parts by name and function;	2★	II
16	2.1.5 (2)	apply knowledge on the craft's obligatory documentation required for craft's operation;	2★	II
19	2.2.3 (2+3)	use equipment specific to passenger vessels;	2★	II
21	3.1.2 (3+4+6)	monitor the stowage and securing of cargo;	1d★	II
22	3.1.3 (3)	distinguish various types of cargo and their qualities;	1d★	II
26	3.2.1 (2)	respect regulations and conventions regarding passenger transport;	Pass/3a★	II
27	3.2.2 (2)	assist in safe movement of passengers when embarking and disembarking;	Pass/3a★	II
28	3.2.3 (2)	assist in supervising passengers during emergency situations;	Pass/3a★	I
29	3.2.4 (2)	communicate effectively with passengers;	Pass/3b★	II
40	4.2.3 (2)	use required tools to ensure general technical safety;	3c★	II
41	4.2.4 (2)	follow procedures of maintenance and repair;	3c★	II
43	5.1.1 (2+3+4)	work with different types of materials and tools used for maintenance and repair operations;	4c★	II
44	5.1.2 (2+3+4+5)	protect health and environment when performing maintenance and repair;	4c★	II
45	5.1.3 (2)	maintain technical devices according to technical instructions;	4c★	II
47	5.1.5 (2+3)	make knots and splices according to their use and maintain them;	1c★	II
48	5.1.6 (2+3+4+5)	prepare and carry out working plans as a member of a team and check the results;	1c★	II
52	6.1.4 (2)	follow instructions for data protection;	3b★	II
53	6.1.5 (2)	present facts using technical terms;	3b★	II
58	6.2.4 (2)	plan, purchase and prepare simple meals;	3a★	II

¹ See ES-QIN Part I Chapter 1.

▼ Firefighting exam elements, marked with a red triangle, consist of 7 exam elements, all of category I.

The applicant masters the:

No.	Competence	Examination elements	Part	Cat.
61	7.1.3 (3+4)	take required precautions before entering enclosed spaces;	3a ▼	I
66	7.2.5 (1)	use emergency escape routes;	3a ▼	I
67	7.2.6 (1)	use internal emergency communication and alarm systems;	3a ▼	I
68	7.3.1 (6)	distinguish the elements of fire and types and sources of ignition;	3a ▼	I
69	7.3.2 (2)	use different types of fire extinguishers;	3a ▼	I
70	7.3.3 (2)	act according to shipboard fire-fighting procedures and organisation;	3a ▼	I
71	7.3.4 (2)	follow instructions concerning personal equipment, methods, extinguishing agents and procedures during firefighting and rescue operations.	3a ▼	I

● Applicants may provide certificates demonstrating that they have sufficient swimming skills to assist in rescue operations as required for the marked category I examination element:

The applicant masters the:

No.	Competence	Examination elements	Part	Cat.
65	7.2.4 (1+2)	provide assistance in the case of rescue operations and swim;	3a ●	I

◆ Applicants may provide certificates attesting the successful completion of a first aid course that covers the skills required of the marked category I examination element:

The applicant masters the:

No.	Competence	Examination elements	Part	Cat.
63	7.2.2 (2+3+5+6)	perform medical first aid;	3a ◆	I

Examination elements numbered 1-11 may be tested prior to the practical examination in an approved training programme.

The applicant masters the:

No.	Competence	Examination elements	Part	Cat.
1	1.1.1 (2+3+4)	assist in mooring, unmooring and hauling (towage) operations;	1c	I
2	1.1.2 (2+4)	assist with coupling operations of push barge combinations;	1c	II
3	1.1.3 (2)	assist with anchoring operations;	1b	I
4	1.1.4 (2)	steer the craft complying with helm orders, using steering gear properly;	1a	I
5	1.1.5 (2)	steer the craft complying with helm orders, taking the influence of wind and current into account;	1a	I
6	1.1.6 (2+3)	use navigational aids and instruments under supervision;	1a	I
7	1.1.7 (2+3+4+6+7)	undertake necessary actions for safety of navigation;	1a	I
8	1.1.8 (6)	describe the characteristics of main European inland waterways, ports and terminals for voyage preparation and steering;	1a	II
9	1.1.9 (2)	respect the general provisions, signals, signs and marking system;	1a	I
10	1.1.10 (2)	follow procedures while passing locks and bridges;	1a	II
11	1.1.11 (2+3)	use systems of traffic control;	1a	II

Other examination elements that shall be tested during a practical exam which do not belong to any of the aforementioned groups:

The applicant masters the:

No.	Competence	Examination elements	Part	Cat.
15	2.1.4 (2)	apply knowledge on the craft's watertight integrity;	2	II
17	2.2.1 (2+3)	use anchors and handle anchor winches;	1b	I
18	2.2.2 (2+3)	handle deck equipment and lifting devices;	2	I
20	3.1.1 (3+5)	read stowage and stability plans;	1d	II
23	3.1.4 (2)	use ballast system;	1d	II
24	3.1.5 (4)	check amount of cargo;	1d	II
25	3.1.6 (2+3)	work according to regulations and safe working rules;	3a	I
30	4.1.1 (5)	assist in monitoring the engines and propulsion system;	4a	I
31	4.1.2 (3+4+5+6)	prepare main engines and auxiliary equipment for operation;	4a	I
32	4.1.3 (2)	react adequately to malfunctions of engines;	4a	II
33	4.1.4 (2+3+4)	operate machinery including pumps, piping systems, bilge and ballast systems;	4a	I

No.	Competence	Examination elements	Part	Cat.
34	4.1.5 (3)	assist in monitoring electronic and electrical devices;	4a	I
35	4.1.6 (2+3)	prepare, start, connect and change generators, and control their systems and shore supply;	4b	I
36	4.1.7 (2)	define malfunctions and common faults, and describe the actions to prevent damage;	4a	II
37	4.1.8 (2)	use required tools to ensure general technical safety;	3a	II
38	4.2.1 (2)	perform the daily maintenance work on the main engines, auxiliary machinery and control systems;	3c	I
39	4.2.2 (2)	perform the daily maintenance work on machinery including pumps, piping systems, bilge- and ballast systems;	3c	I
42	4.2.5 (2)	use technical information and document technical procedures;	4c	II
46	5.1.4 (2)	safely handle wires and ropes;	1c	I
49	6.1.1 (2+4)	use information and communication systems;	3b	II
50	6.1.2 (2)	solve different tasks with the help of different types of digital devices, information services (such as River Information Services (RIS)) and communication systems;	3b	II
51	6.1.3 (2)	collect and store data including backup and data update;	3b	II
54	6.1.6 (2)	obtain nautical and technical information to maintain safety of navigation;	3b	I
55	6.2.1 (2+4)	follow instructions and communicate with others in terms of shipboard duties;	3b	II
56	6.2.2 (2+3+4+6)	contribute to good social relations and cooperate with others on board;	3a	II
57	6.2.3 (1+2+3+6)	accept social responsibility, conditions of employment, individual rights and duties; acknowledge dangers of alcohol and drug abuse and adequately respond to misconduct and dangers;	3a	II
59	7.1.1 (3+6+7)	work according to instructions and rules for safety at work and prevention of accidents;	3a	I
60	7.1.2 (2)	use personal protective equipment to prevent accidents;	3a	I
62	7.2.1 (4)	act in the case of emergencies according to applicable instructions and procedures;	3a	I
64	7.2.3 (2+3+5)	use and maintain personal protective equipment and shipboard life saving equipment;	3a	I
72	7.4.1 (2)	protect the environment in accordance with relevant regulations;	3a	II
73	7.4.2 (2+3)	take precautions to prevent pollution of the environment;	3a	II
74	7.4.3 (2)	use resources efficiently;	3a	II
75	7.4.4 (2)	dispose of waste in an environmentally friendly fashion.	3a	II

Result sheet practical examination on Operational Level

Applicant details

Name and first name: _____

Place and date of birth: _____ - ____ - ____

Crew member identification number (CID) (if available): _____

Examiner details

Name and first name of the examiner 1: _____

Name and first name of the examiner 2: _____

Date of examination: _____ (dd/mm/yyyy)

Examination elements tested prior to the practical examination on Operational Level

The practical examination may not be taken until all the following parts have been successfully completed.

Results of the knowledge elements on Operational level

Place exam: _____

Organization: _____

Date: _____ (dd/mm/yyyy)

Result: Passed / failed

Evidenced by: document / certificate / competence demonstrated in approved training programme

Skills exam elements numbered 1 to 11 (practical skills on deck) can be tested during an approved training programme.

Organization: _____

Place: _____

Period: From _____ to _____

Result: Passed / failed

Skills that cannot be tested on board a craft or on a simulator for practical reasons

Place exam: _____

Organization: _____

Date: _____ (dd/mm/yyyy)

Result: Passed / failed

Evidenced by: document / certificate / competence demonstrated in approved training programme

Skills Firefighting

Place exam: _____

Organization: _____

Date: _____ (dd/mm/yyyy)

Result: Passed / failed

Evidenced by: document / certificate / proof taken in approved training programme

Skills first aid 

Place exam: _____
Organization: _____
Date: _____ (dd/mm/yyyy)
Result: Passed / failed
Evidenced by: document / certificate / competence demonstrated in approved training programme

Rescue swimming skills 

Place exam: _____
Organization: _____
Date: _____ (dd/mm/yyyy)
Result: Passed / failed
Evidenced by: document / certificate / competence demonstrated in approved training programme

Examination elements category I

Result: sufficient / insufficient ²
Evidenced by: document / certificate / competence demonstrated in approved training programme

² See assessment form

Assessment form and examination report
Practical examination on Operational Level
Examination elements tested prior to practical examination during an approved training programme

If this document is drawn up by a person other than the competent authority, this document shall contain at least the following information.

Applicant's name and first name: _____

Place and date of birth: _____ - ____ - _____

Crew member identification number (CID) (if available): _____

Examiner details

Name and first name of examiner 1: _____

Name and first name of examiner 2: _____

Final part of practical examination:

Date: _____ (dd/mm/yyyy)

Training institute, place: _____

Exam location: Location / berth (if other than above): _____

Simulator / Craft used in examination: _____

Explanation according to the CESNI standard

Skills that for practical reasons cannot be tested on board a vessel or on a simulator consist of 7 competences of category I and 21 competences of category II.

All competences in category I must be tested and at least rated with 7 or higher out of 10.

Ten competences of category II shall be tested.

For this model examination, the examination elements of the competences marked with an X in column 'Score and selection' must be tested.

The competences marked with * have 3 competences, category II, which are about skills on board passenger vessels (marked PASS). Two of these competences must be tested.

Results

All category I competences score at least 7 out of 10:

The total score for competences category II is equal to or higher than 60 pc

Examination elements tested prior to practical examination during an approved training programme

The applicant shall have mastered the examination elements marked with the red star *

No.	Competence	Examination elements	Part	Cat.	Score and selection
7	1.1.7 (2+3+4+6+7)	undertake necessary actions for safety of navigation;	1a*	I	
8	1.1.8 (6)	describe the characteristics of main European inland waterways, ports and terminals for voyage preparation and steering;	1a*	II	X:
12	2.1.1 (2)	distinguish various types of craft;	2*	II	
13	2.1.2 (2)	apply knowledge of the construction of inland waterway craft and their behaviour in water, especially in terms of stability and strength;	2*	II	X:
14	2.1.3 (2)	apply knowledge of the craft's structural parts and identify the parts by name and function;	2*	II	
16	2.1.5 (2)	apply knowledge on the craft's obligatory documentation required for craft's operation;	2*	II	X:
19	2.2.3 (2+3)	use equipment specific to passenger vessels;	2*	II	
21	3.1.2 (3+4+6)	monitor the stowage and securing of cargo;	1d*	II	X:
22	3.1.3 (3)	distinguish various types of cargo and their qualities;	1d*	II	
26	3.2.1 (2)	respect regulations and conventions regarding passenger transport;	Pass /3a*	II	X:
27	3.2.2 (2)	assist in safe movement of passengers when embarking and disembarking;	Pass /3a*	II	
28	3.2.3 (2)	assist in supervising passengers during emergency situations;	Pass /3a*	I	
29	3.2.4 (2)	communicate effectively with passengers;	Pass /3b*	II	X:
40	4.2.3 (2)	use required tools to ensure general technical safety;	3c*	II	
41	4.2.4 (2)	follow procedures of maintenance and repair;	3c*	II	X:
43	5.1.1 (2+3+4)	work with different types of materials and tools used for maintenance and repair operations;	4c*	II	
44	5.1.2 (2+3+4+5)	protect health and environment when performing maintenance and repair;	4c*	II	X:
45	5.1.3 (2)	maintain technical devices according to technical instructions;	4c*	II	
47	5.1.5 (2+3)	make knots and splices according to their use and maintain them;	1c*	II	X:
48	5.1.6 (2+3+4+5)	prepare and carry out working plans as a member of a team and check the results;	1c*	II	

No.	Competence	Examination elements	Part	Cat.	Score and selection
52	6.1.4 (2)	follow instructions for data protection;	3b*	II	
53	6.1.5 (2)	present facts using technical terms;	3b*	II	
58	6.2.4 (2)	plan, purchase and prepare simple meals;	3a*	II	

Assessment form and exam report
Practical examination on Operational Level
Examination elements 1 to 11

Skills contained in examination elements numbered 1 to 11 (practical skills on deck) can be tested during an approved training programme.

If this document is drawn up by a person other than the competent authority, this document must contain at least the following information.

Applicant's name and first name: _____
Place and date of birth: _____ - ____ - ____
Crew member identification number (CID) (if available): _____

Examiner details

Name and first name of examiner 1: _____
Name and first name of examiner 2: _____

Assessment exam

Date: _____ (dd/mm/yyyy)

Location, place

Exam location: Location / berth: _____
Simulator / Craft used in the examination: _____

Explanation according to the CESNI standard

The skills numbered 1 to 11, tested during an approved training programme, consist of 7 examination elements of category I and 4 examination elements of category II.

All competences in category I shall be tested and rated at least per competence with 7 or higher out of 10.

Two examination elements of category II shall be tested.

For this model examination, the examination elements of the competences marked with an X in column 'Score and selection' shall be tested.

Results

All category I competences score at least 7 out of 10

The total score for examination elements category II is equal to or higher than (2 x 6) 12 points:

Skills contained in examination elements numbered 1 to 11 (practical skills on deck) can be tested during an approved training programme.

No.	Competence	Examination elements	Part	Cat.	Score and selection
1	1.1.1 (2+3+4)	assist in mooring, unmooring and hauling (towage) operations;	1c	I	
2	1.1.2 (2+4)	assist with coupling operations of push barge combinations;	1c	II	X:
3	1.1.3 (2)	assist with anchoring operations;	1b	I	
4	1.1.4 (2)	steer the craft complying with helm orders, using steering gear properly;	1a	I	
5	1.1.5 (2)	steer the craft complying with helm orders, taking the influence of wind and current into account;	1a	I	
6	1.1.6 (2+3)	use navigational aids and instruments under supervision;	1a	I	
7	1.1.7 (2+3+4+6+7)	undertake necessary actions for safety of navigation;	1a	I	
8	1.1.8 (6)	describe the characteristics of main European inland waterways, ports and terminals for voyage preparation and steering;	1a	II	
9	1.1.9 (2)	respect the general provisions, signals, signs and marking system;	1a	I	
10	1.1.10 (2)	follow procedures while passing locks and bridges;	1a	II	X:
11	1.1.11 (2+3)	use systems of traffic control;	1a	II	

**Assessment form and examination report
Practical examination on Operational Level
Firefighting**

If this document is drawn up by a person other than the competent authority, this document shall contain at least the following information.

Applicant's name and first name: _____

Place and date of birth: _____ - ____ - ____

Crew member identification number (CID) (if available): _____

Examiner details

Name and first name of examiner 1: _____

Name and first name of examiner 2: _____

Assessment exam

Date: _____ (dd/mm/yyyy)

Location, place

Exam location: _____ Location / berth: _____

Simulator / Craft used in the examination:

Explanation according to the CESNI standard

Firefighting skills consist of 5 category I examination elements.

All category I elements must be tested and rated at least with 7 out of 10 for each element.

Results

All category I competences score at least 7 out of 10:



Practical exam Fire fighting:

No.	Competence	Examination elements	Part	Cat.	Score
61	7.1.3 (3+4)	take required precautions before entering enclosed spaces;	3a ▼	I	
66	7.2.5 (1)	use emergency escape routes;	3a ▼	I	
67	7.2.6 (1)	use internal emergency communication and alarm systems;	3a ▼	I	
68	7.3.1 (6)	distinguish the elements of fire and types and sources of ignition;	3a ▼	I	
69	7.3.2 (2)	use different types of fire extinguishers;	3a ▼	I	
70	7.3.3 (2)	act according to shipboard fire-fighting procedures and organisation;	3a ▼	I	
71	7.3.4 (2)	follow instructions concerning personal equipment, methods, extinguishing agents and procedures during firefighting and rescue operations.	3a ▼	I	

Assessment form and examination report
Practical exam on Operational Level
First aid

If this document is drawn up by a person other than the competent authority, this document must contain at least the following information.

Applicant's name and first name: _____

Place and date of birth: _____ - ____ - ____

Crew member identification number (CID) (if available): _____

Examiner details

Name and first name of examiner 1: _____

Name and first name of examiner 2: _____

Assessment exam

Date: _____ (dd/mm/yyyy)

Location, place

Exam location: _____ Location / berth: _____

Simulator / craft used in the examination: _____

Explanation according to the CESNI standard

First Aid skills consist of 1 category I competence.


This category I competence must be tested and rated at least with 7 out of 10.

Results

All category I competences score at least 7 out of 10:



Practical exam First aid:

No.	Competence	Examination elements	Part	Cat.	Score
64	7.2.3 (2+3+5)	use and maintain personal protective equipment and shipboard life saving equipment;	3a 	I	

Assessment form and exam report
Practical examination on Operational Level
Swimming skills

If this document is drawn up by a person other than the competent authority, this document must contain at least the following information.

Applicant's name and first name: _____

Place and date of birth: _____ - ____ - ____

Crew member identification number (CID) (if available): _____

Examiner details

Name and first name of examiner 1: _____

Name and first name of examiner 2: _____

Assessment exam

Date: _____ (dd/mm/yyyy)

Location, place

Exam location: _____ Location / berth: _____

Simulator / Craft used in the examination: _____

Explanation according to the CESNI standard

Swimming skills consist of 1 category I competence.

This category I competence must be tested and rated at least with 7 out of 10.

Results

All category I competences score at least 7 out of 10:



Practical examination Swimming skills:

No.	Competence	Examination elements	Part	Cat.	Score
65	7.2.4 (1+2)	provide assistance in the case of rescue operations and swim;	3a ●	I	

Assessment form and examination report
Practical examination on Operational Level
Final part

If this document is drawn up by a person other than the competent authority, this document must contain at least the following information.

Applicant's name and first name: _____

Place and date of birth: _____ - ____ - ____

Crew member identification number (CID) (if available): _____

Examiner details

Name and first name of examiner 1: _____

Name and first name of examiner 2: _____

Assessment exam

Date: _____ (dd/mm/yyyy)

Location, place

Exam location : _____ Location / berth: _____

Simulator / Craft used in the examination: _____

Explanation according to the CESNI standard

The practical exam consists of 16 competences of category I and 18 competences of category II.

All competences in category I shall be tested and rated at least with 7 out of 10.

Nine competences of category II shall be tested. For this test, the examination elements of the competences marked with an X in column 'Score and selection' shall be tested.

Results

All category I competences score at least 7 out of 10:

The total score for category II competences is equal to or higher than (9 x 6) 54 points:

Practical examination operational level:

No.	Competence	Examination elements	Part	Cat.	Score and selection
15	2.1.4 (2)	apply knowledge on the craft's watertight integrity;	2	II	X:
17	2.2.1 (2+3)	use anchors and handle anchor winches;	1b	I	
18	2.2.2 (2+3)	handle deck equipment and lifting devices;	2	I	
20	3.1.1 (3+5)	read stowage and stability plans;	1d	II	X:
23	3.1.4 (2)	use ballast system;	1d	II	
24	3.1.5 (4)	check amount of cargo;	1d	II	X:
25	3.1.6 (2+3)	work according to regulations and safe working rules;	3a	I	
30	4.1.1 (5)	assist in monitoring the engines and propulsion system;	4a	I	
31	4.1.2 (3+4+5+6)	prepare main engines and auxiliary equipment for operation;	4a	I	
32	4.1.3 (2)	react adequately to malfunctions of engines;	4a	II	
33	4.1.4 (2+3+4)	operate machinery including pumps, piping systems, bilge and ballast systems;	4a	I	
34	4.1.5 (3)	assist in monitoring electronic and electrical devices;	4a	I	
35	4.1.6 (2+3)	prepare, start, connect and change generators, and control their systems and shore supply;	4b	I	
36	4.1.7 (2)	define malfunctions and common faults, and describe the actions to prevent damage;	4a	II	X:
37	4.1.8 (2)	use required tools to ensure general technical safety;	3a	II	
38	4.2.1 (2)	perform the daily maintenance work on the main engines, auxiliary machinery and control systems;	3c	I	
39	4.2.2 (2)	perform the daily maintenance work on machinery including pumps, piping systems, bilge- and ballast systems;	3c	I	
42	4.2.5 (2)	use technical information and document technical procedures;	4c	II	X:
46	5.1.4 (2)	safely handle wires and ropes;	1c	I	
49	6.1.1 (2+4)	use information and communication systems;	3b	II	

No.	Competence	Examination elements	Part	Cat.	Score and selection
50	6.1.2 (2)	solve different tasks with the help of different types of digital devices, information services (such as River Information Services (RIS)) and communication systems;	3b	II	X:
51	6.1.3 (2)	collect and store data including backup and data update;	3b	II	
54	6.1.6 (2)	obtain nautical and technical information to maintain safety of navigation;	3b	I	
55	6.2.1 (2+4)	follow instructions and communicate with others in terms of shipboard duties;	3b	II	X:
56	6.2.2 (2+3+4+6)	contribute to good social relations and cooperate with others on board;	3a	II	
57	6.2.3 (1+2+3+6)	accept social responsibility, conditions of employment, individual rights and duties; acknowledge dangers of alcohol and drug abuse and adequately respond to misconduct and dangers;	3a	II	X:
59	7.1.1 (3+6+7)	work according to instructions and rules for safety at work and prevention of accidents;	3a	I	
60	7.1.2 (2)	use personal protective equipment to prevent accidents;	3a	I	
62	7.2.1 (4)	act in the case of emergencies according to applicable instructions and procedures;	3a	I	
63	7.2.2 (2+4+5+6)	perform medical first aid;	3a	I	
72	7.4.1 (2)	protect the environment in accordance with relevant regulations;	3a	II	
73	7.4.2 (2+3)	take precautions to prevent pollution of the environment;	3a	II	X:
74	7.4.3 (2)	use resources efficiently;	3a	II	
75	7.4.4 (2)	dispose of waste in an environmentally friendly fashion.	3a	II	
