

EUROPEAN TRAINING RECORD BOOK

For
Inland Waterway Transport
Education & Training
MANAGEMENT LEVEL



Co-funded by the
Erasmus+ Programme
of the European Union



TABLE OF CONTENTS

SECTION 1

- 2. INTRODUCTION
- 3. GUIDANCE FOR THE TRAINEE - for completing the TRAINING RECORD BOOK
- 4. GUIDANCE FOR THE BOATMASTER/DESIGNATED TRAINING Person
- 5. PARTICULARS OF PROFESSIONAL TRAINING
- 6. DESIGNATED TRAINING Person and REVIEW OF TRAINING PROGRESS
- 7. BOATMASTER'S MONTHLY INSPECTION OF THE TRAINING RECORD BOOK
- 8. COMPANY'S INSPECTION OF THE TRAINING RECORD BOOK
- 9. LIST OF PUBLICATIONS AND ONLINE TOOLS
(videos, apps, e-learning management systems) used for individual study and training

SECTION 2

- 10. BASIC SAFETY TRAINING AND CRAFT PARTICULARS FAMILIARISATION
- 11. FAMILIARISATION WITH THE CRAFT'S PARTICULARS

SECTION 3: TASKS AND ASSIGNMENTS

- 12. TASKS

ASSIGNMENTS

ASSIGNMENT 1

Navigation

4	ASSIGNMENT 2	59
5	Operation of the craft	59
6		
7	ASSIGNMENT 3	60
8	Cargo handling, stowage and passenger transport	60
9		
10	ASSIGNMENT 4	61
11	Marine engineering and electrical, electronic and control engineering	61
12		
14	ASSIGNMENT 5	62
	Maintenance and repair	62
14	ASSIGNMENT 6	63
15	Communication	63
24	ASSIGNMENT 7	64
24	Health and safety, passenger rights and environmental protection	64
	14. FINAL EVALUATION OF THE TRAINEE	65
57	15. DEBRIEFING SESSION/COMMENTS:	73
58		
58		

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SECTION 1



SECTION 1

1. PERSONAL DETAILS

FULL NAME:

Home Address:

Change of Address 1:

Tel. No:

Tel. No:

Change of Address 2:

Change of Address 3:

Tel. No:

Tel. No:

Date of Birth:

Place of Birth:

Nationality:

No. of Service Record Book:

Date of issue:

Trainee Signature:

Acquired competences and practical abilities assessed by:

Name of institution:

Date:

Signature and stamp:

PHOTO

Note: This TRAINING RECORD BOOK is the property of the Trainee whose details appear above. If found, please return to the latest address shown.

2. INTRODUCTION

This Training Record Book (TRB) may be used as part of an approved education and/or training programme and allows for the recording of satisfactorily demonstrated competences by qualified assessors.

As part of their training every candidate sitting for the Union Certificate of Qualification at Management Level (ML) must complete an approved programme. This programme is designed to assist the candidate achieve the necessary standards of competence in compliance with the provisions of Directive (EU) 2017/2397 on the recognition of professional qualifications in inland navigation and ES-QIN 2020 European Standards – Qualifications in Inland Navigation, adopted by the Delegated Directive (EU) 2020/12 and laid down in Annex II to the above-mentioned Directive. The education and/or training programme is a combination of shore-based education and training, and on-board service for the practical stage. Competences may also be assessed on a simulator that meets the requirements of EU Directive 2020/12.

This TRB is an integral part of the education and /or training programme and should be completed during periods of on-board service in the practical stage. It not only allows for the practical assessment of competences but also provides a comprehensive record of on-board training on an inland navigation vessel.

All competences required to obtain the Union Certificate of Qualification at ML can be achieved by completing the tasks in this TRB, which must be completed while serving aboard an inland navigation commercial, passenger or dangerous-good vessel. The completed Training Record book will be made available to an approved examiner for the final assessment. The final assessment must be passed before a Union Certificate of Qualification at ML can be issued by the National Authority.

The evaluation of the candidate's competences should be made based on the mandatory standards for practical examination adopted from Directive (EU) 2020/12.

The TRB must be fully completed, with the signature of the boatmaster (or a Designated Training Person, qualified as an assessor) verifying that the various ASSIGNMENTS and TASKS have been completed by the trainee.

3. GUIDANCE FOR THE TRAINEE - FOR COMPLETING THE TRAINING RECORD BOOK

This is an important document. It is an essential part of your professional development and will be reviewed by qualified assessors. It is your sole responsibility to ensure its safekeeping and to present it to the boatmaster or the Designated Training Person review who will sign and stamp it.

Upon receipt of the TRB:

- Familiarise yourself with the layout of the book;
 - Read all the instructions and required competences carefully;
 - Fill out your personal details;
 - Plan how to complete the book in a timely manner.
-
1. You are personally responsible for the upkeep and safekeeping of this TRB at all times. Fill in your PERSONAL DETAILS.
 2. As soon as possible after joining each vessel, complete the priority and familiarisation TASKS, and the vessel's particulars in the sheets provided.
 3. A range of ASSIGNMENTS, TASKS and duties are detailed in this TRB, augmenting shore-based training and giving direction to your on-board service. Complete the ASSIGNMENTS, TASKS and duties as appropriate under the direction of the boatmaster or the Designated Training Person who has been duly authorised by the company.
 4. On satisfactory completion, each of the ASSIGNMENTS and TASKS should be initialled by the boatmaster or the Designated Training Person. It is important to understand that you may need to demonstrate this ability on several occasions before the boatmaster or Designated Training Person is confident that you have attained this standard.
 5. Present this TRB to the boatmaster for inspection on a regular basis and at least once each month.
 6. Present this TRB for updating and final review in good time before leaving the vessel and well before arrival at the last port, otherwise the opportunity to record valuable experience will be lost.

Before leaving the vessel, ensure that the boatmaster has completed your IN Service Testimonial for voyage.

4. GUIDANCE FOR THE BOATMASTER/DESIGNATED TRAINING PERSON

This Training Record Book (TRB) is for use by candidates/trainees who are undertaking training and gaining experience on board vessels, as required to obtain a Union Certificate of Qualification at Management level (CML). When used during the required periods of qualifying service time (QST) on board vessels, the TRB will ensure that the candidate/trainee receives practical training and experience in the tasks, duties and responsibilities of a crew member at management level, and provides a record of that training and experience.

A key part of this process is the candidate/trainee being overseen by a suitably qualified and experienced person while they gain experience and undertake training. This qualified and experienced person will sign off training tasks when a satisfactory standard of proficiency has been achieved. Such persons would normally include a boatmaster/Designated Training Person, employer, or any other person who may be suitably qualified and experienced in the field of training and assessment of competences.

When all the tasks in a section have been completed (or all those which it is possible to complete) the responsible person for on-board training should complete and sign the corresponding box, annotating it accordingly if it has not been possible for all the tasks to be completed.

Signing off tasks is a serious commitment. The person responsible for on-board training should sign off tasks only when they consider that the candidate/trainee is competent in the relevant area being assessed.

5. PARTICULARS OF PROFESSIONAL TRAINING

Name of Training Institute/Academy/College:

Date:

No.	Mandatory Courses/ Educational Programme Attended	Date	Diploma No.
1			
2			
3			
4			
5			
6			
7			

6. DESIGNATED TRAINING PERSON AND REVIEW OF TRAINING PROGRESS

The table below should be completed at least once a week or at such intervals as the trading of the vessel allows.

Comments should only relate to the trainee’s practical progress & competence and should NOT refer to their character.

NAME OF VESSEL (TYPE)	COMMENTS ON TRAINEE’S ACTIVITY, ATTITUDES AND COMPETENCE	FULL NAME OF DESIGNATED TRAINING PERSON (IN BLOCK CAPITALS)	DATE

7. BOATMASTER'S MONTHLY INSPECTION OF THE TRAINING RECORD BOOK

Comments should only relate to progress of the trainee's practical abilities and should NOT refer to their character.§

NAME OF VESSEL (TYPE)	COMMENTS	FULL NAME OF BOATMASTER/DESIGNATED TRAINING PERSON (IN BLOCK CAPITALS)	DATE	VESSEL'S OFFICIAL STAMP

8. COMPANY'S INSPECTION OF THE TRAINING RECORD BOOK

Comments should only relate to the trainee's practical progress & competence and should NOT refer to their character.

COMMENTS	NAME (IN BLOCK CAPITALS)	DATE

9. LIST OF PUBLICATIONS AND ONLINE TOOLS (VIDEOS, APPS, E-LEARNING MANAGEMENT SYSTEMS) USED FOR INDIVIDUAL STUDY AND TRAINING

DATE	SUBJECT/TITLE	BOATMASTER/DESIGNATED TRAINING PERSON (Full name)
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SECTION 2



SECTION 2

10. BASIC SAFETY TRAINING AND CRAFT PARTICULARS FAMILIARISATION

Before being assigned to a vessel's on-board duties the candidate for the Union Certificate of Qualification at Management Level must be familiarised with the internal procedures & regulations for ensuring safety of life, and with the craft's particulars. This initial training must be based on the documentation for internal procedures, regulations and any other relevant items, ensuring the trainee's personal and occupational safety during his/her embarkation on board the vessel.

11. FAMILIARISATION WITH THE CRAFT'S PARTICULARS

(Entries to be made by the trainee for **each** vessel he/she embarked upon. These craft particulars are in accordance with Directive (EU) 2016/1629 that lays down technical requirements for inland waterway vessels.)

CRAFT		1	2	3
1.	Name of craft			
2.	Type of craft or convoy			
3.	Unique European Vessel Identification Number			
4.	Dimensions and Capacities			
4.1	Length overall (m)			
4.2	Breadth overall (m)			
4.3	Draught overall (m)			
4.4	Freeboard (cm)			
4.5	Dead weight/Displacement (m)			
4.6	Number of passengers			
4.7	Number of passenger berths			
4.8	Number of watertight transverse bulkheads			
4.9	Number of holds			
4.10	Type of hatch cover			
4.11	Number of main propulsion engines			
4.12	Total power rating of main means of propulsion			

CRAFT	1	2	3
4.13	Number of main propellers		
4.14	Total number of bow windlasses Number of which are powered		
4.15	Total number of stern windlasses Number of which are powered		
4.16	Number of towing hooks		
4.17	Number of towing winches		
5.	Couplings		
5.1	Type of couplings		
5.2	Number of coupling cables		
5.3	Number of couplings per side		
5.4	Length of each coupling cable (m)		
5.5	Tensile strength per longitudinal coupling (kN)		
5.6	Tensile strength per cable (kN)		
5.7	Number of cable windings		
6.	Steering system		
6.1	Number of rudder blades on main rudder		
6.2	Main rudder drive (manual/electric/electric-hydraulic/hydraulic)		
6.3	Other installations:	<input type="checkbox"/> Yes <input type="checkbox"/> No Type:	<input type="checkbox"/> Yes <input type="checkbox"/> No Type:
6.4	Flanking rudder:	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No
6.5	Flanking rudder drive: (manual/electric/electric-hydraulic/hydraulic)		

CRAFT		1	2	3
6.6	Bow rudder installation: - Bow rudder - Bow thruster - Other installation	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No
6.7	Remote control:	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No
6.8	Remote control:	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No
6.9	Remote activation:	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No
7.	Bilge and drainage system			
7.1	Total number of bilge pumps Number of power-driven bilge pumps			
7.2	Minimum pumping capacity - First bilge pump (l/min) - Second bilge pump (l/min)			
8.	Anchors			
8.1	Number of bow anchors			
8.2	Total mass of bow anchors (kg)			
8.3	Number of stern anchors			
8.4	Total mass of stern anchors (kg)			
9.	Anchors chains			
9.1	Number of bow anchor chains			
9.2	Length of each bow anchor chain (m)			
9.3	Breaking load of each bow anchor chain (kN)			
9.4	Number of stern anchor chains			
9.5	Length of each stern anchor chain (m)			
9.6	Breaking load of each stern anchor chain (kN)			

CRAFT		1	2	3
10.	Mooring Cables			
10.1	1st cable	m long with a breaking load of kN	m long with a breaking load of kN	m long with a breaking load of kN
10.2	2nd cable	m long with a breaking load of kN	m long with a breaking load of kN	m long with a breaking load of kN
10.3	3rd cable	m long with a breaking load of kN	m long with a breaking load of kN	m long with a breaking load of kN
11.	Towing Cables			
11.1	(No. of cables)	m long with a breaking load of kN	m long with a breaking load of kN	m long with a breaking load of kN
11.2	(No. of cables)	with a length of m and a breaking load of kN	with a length of m and a breaking load of kN	with a length of m and a breaking load of kN
12.	Visual and audible signals			
12.1	Lights, flags, balls, floats, audible warning devices, stand-alone emergency mooring lights			
12.2	Voice communication system - Alternative two-way system - Simultaneous two-way/telephone - Internal radio-telephone link			
12.3	Radio telephony systems - Vessel-to-vessel service - Nautical information service - Vessel-port authority service - Port			
13.	Other equipment			
13.1	Heaving line			
13.2	Gangway Length (m)			

CRAFT	1	2	3
13.3	Embarkation stairway/ladder		
13.4	Number of first-aid kits		
13.5	Number of pairs of binoculars		
13.6	Notice concerning rescue of persons overboard		
13.7	Searchlight that can be operated from the wheelhouse		
14.	Fire-fighting appliances		
14.1	Number of portable: - Fire extinguishers. - Fire pumps. - Hydrants		
14.2	Number of permanently installed fire-fighting systems in accommodation etc.		
14.3	Number of permanently installed fire-fighting systems in engine rooms etc.		
14.4	Does the power-driven bilge pump replace a fire pump?	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No
14.5	Fire prevention and cooling system present?	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No
14.6	Fire alarm system (number/s) - Fire detection system - Fire indicator system - Control panel - External power supply		
14.7	Number of Fire detectors - Number of heat detectors - Number of smoke detectors - Number of ion detectors - Number of flame detectors - Combination detectors type		
15.	Lifesaving appliances		
15.1	Number of lifebuoys - With light - With line		

CRAFT	1	2	3
15.2	Number of life jackets for every person who is regularly on board		
15.3	Ship's boat with a set of oars, one mooring line and a bailer in accordance with the European Standard is present?	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No
15.4	Platform or an installation in accordance with Article 19.15(4) or (5) is present?	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No
15.5	Number, type and site(s) of installation of the equipment to enable persons to be transferred safely to shallow water, to the bank, or to another craft in accordance with Article 19.09(3)		
15.6	Number of individual life-saving pieces of equipment for shipboard personnel		
15.7	Number of individual life-saving pieces of equipment for passengers		
15.8	Number of collective life-saving pieces of equipment		
15.9	Number of breathing apparatus sets		
15.10	Safety rota and safety plan displayed		
16.	Navigation and Information Equipment		
16.1	Inland ECDIS equipment, stand-alone equipment connected to the radar equipment (Type/ No.)		
16.2	Inland ECDIS equipment, stand-alone equipment connected to the radar installation and shared monitor	(Type/ No.)	(Type/ No.)
16.3	Inland AIS equipment	(Type/ No.)	(Type/ No.)
16.4	Shipboard tachograph	(Type/ No.)	(Type/ No.)

CRAFT		1	2	3
16.5	Rate-of-turn indicator	(Type/Position)	(Type/Position)	(Type/Position)
16.6	Radar – antenna	(Type/Position)	(Type/Position)	(Type/Position)
17. Engine equipment				
17.1	Engine room details: - Gas-safe engine room - Explosion-safe engine room - ESD protected engine room - Other type:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Yes <input type="checkbox"/> No
17.2	Engine details: - Type - Rated power (kW) - Rated speed (rpm) - Number of cylinders - Use for which the engine is intended (Craft main propulsion/Generator propulsion/Forward beam propulsion/Auxiliary engine, etc.)			
17.3	Engine components: - Camshaft/piston - Injection valve - Data set/software number - Injection pump - Cylinder head - Exhaust gas turbocharger - Charge air cooler	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Yes <input type="checkbox"/> No
18. On-board sewage treatment plants				
18.1	- Type: - Make - Mode of treatment: biological or mechanical/chemical			
18.2	Upstream waste water storage tank (m ³)			
18.3	On-board sewage treatment plant characteristics - Daily volumetric flow rate of sewage Q_d (m ³ /d): - Daily BOD_5 pollution load (kg/d):			

CRAFT		1		2		3	
19.	Control, Monitoring and Safety Systems						
19.1	Gas supply system	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	- Set of independent gas control systems	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	- Gas monitoring system	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	- Gas safety system?	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> Yes	<input type="checkbox"/> No
19.2	Number of LNG fuel tanks fitted with:						
	- Liquid level indicators						
	- Pressure indicator						
	- High liquid level alarm						
	- Additional sensor						
19.3	Gas warning equipment	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> Yes	<input type="checkbox"/> No
19.4	Gas supply system	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> Yes	<input type="checkbox"/> No

SECTION 3



SECTION 3: TASKS AND ASSIGNMENTS

12. TASKS

This section includes Remarks and Assessment by the boatmaster's/ Designated Training Person on the Trainee's undertaking to receive the Boatmaster Union Certificate of Qualification. All competence requirements under the following seven core thematic modules from ES-QIN must be fulfilled:

1. Navigation;
2. Operation of the Craft;
3. Cargo Handling, Stowage and Passenger Transport;
4. Marine Engineering and Electrical, Electronic and Control Engineering;
5. Maintenance and Repair;
6. Communication;
7. Health & Safety, Environmental Protection and Passenger Rights.

The details of the main tasks fulfilled, supervised and assessed by the boatmaster/ Designated Training Person on the vessel upon which the trainee served are presented on the following pages. The Trainee must complete all of the main tasks in order to obtain a minimum standard of competence and knowledge, as well as the abilities and competences needed by any boatmaster working on board an inland navigation vessel. Competence is demonstrated prior to the boatmaster entering his/her remarks, suggestions and considerations of the candidate's on-board Boatmaster License attainment activity.

1. NAVIGATION

Competence requirements:

1.1 The boatmaster shall be able to:

- plan a journey and conduct navigation on inland waterways, including being able to choose the most logical, economical and ecological sailing route to reach the loading and unloading destinations taking into account the applicable traffic regulations and agreed set of rules applicable in inland navigation

Ref No	COMPETENCE:	ABILITIES TO DEMONSTRATE	ADVICE ON AREAS FOR IMPROVEMENT	ABILITIES DEMONSTRATED Designated Training Person/ Boatmaster (Full name/Date)
1.	Navigate European inland waterways including locks and lifts according to navigation agreements with agent	<ol style="list-style-type: none"> 1. Ability to calculate water level, depth and (air) draught using water levels and relevant information sources. 2. Ability to calculate distances and sailing time using information sources concerning distances, locks, restrictions and sailing speed or time. 3. Ability to instruct crew members and shipboard personnel to perform tasks in a safe way. 		
2.	Respect and apply traffic regulations applicable to navigation on inland waterways to avoid damage	<ol style="list-style-type: none"> 1. Ability to apply relevant traffic regulations applicable to the waterway which is being sailed. 		
3.	Consider economic and ecological aspects of the craft operation in order to use the craft efficiently and with respect toward the natural environment	<ol style="list-style-type: none"> 1. Ability to perform environmentally sustainable and economical navigation with regard to (e.g.) fuel efficiency, bunkering, emission levels, shallow water effects, connection to shore electricity and waste management. 		
4.	Take into account technical structures and profiles of the waterways, and use precautions	<ol style="list-style-type: none"> 1. Ability to: navigate passing through various types of locks, various locking procedures, navigate under various types of bridges, understand profiles of canals and rivers, and to make use of "safe harbours" and overnight ports. 		
5.	Work with up-to-date charts or maps, Notices to Skippers or Mariners and other publications	<ol style="list-style-type: none"> 1. Ability to use navigation aids as applicable, e.g. satellite positioning system. 2. Ability to use nautical charts considering factors related to accuracy and chart-- reading such as chart date, symbols, soundings, bottom description, depths and datum (WGS84). Uses international charts standards such as Inland ECDIS. 3. Ability to use nautical publications such as Notices to Skippers or Mariners in order to collect necessary information required for safe navigation, find the height of tide at any time, information on ice, high or low water levels, berths and port directories. 		
6.	Use relevant traffic supervision tools and be able to apply them;	<ol style="list-style-type: none"> 1. Ability to use day and night signs such as lights to guide craft. 2. Ability to use traffic information tools. 		

1.2. The boatmaster shall be able to:

- apply knowledge of the applicable rules on the manning of craft, including knowledge on resting time and on the composition of the deck crew

Ref No	COMPETENCE:	ABILITIES TO DEMONSTRATE	ADVICE ON AREAS FOR IMPROVEMENT	ABILITIES DEMONSTRATED Designated Training Person/ Boatmaster (Full name/Date)
1.	Ensure safe manning of craft in accordance with applicable rules, including knowledge on resting time and on the composition of the deck crew	1. Ability to instruct crew members on when to take up, and when to end, duty.		

1.3 The boatmaster shall be able to:

- sail and manoeuvre ensuring the safe operation of the craft in all conditions on inland waterways, including in situations that involve high traffic density or where other craft carry dangerous goods and require basic knowledge of the European Agreement Concerning the International Carriage of Dangerous Goods by Inland Waterways (ADN).

Ref No	COMPETENCE:	ABILITIES TO DEMONSTRATE	ADVICE ON AREAS FOR IMPROVEMENT	ABILITIES DEMONSTRATED Designated Training Person/ Boatmaster (Full name/Date)
1.	Navigate and manoeuvre taking into account geographical, hydrological, meteorological and morphological characteristics of the main inland waterways	1. Ability to apply geographical, hydrological, meteorological and morphological information.		
2.	Give order to moor and unmoor craft and to haul towage operations	1. Ability to communicate with deck personnel, e.g., uses communication systems and hand signals.		
3.	Provide safe access to craft	1. Ability to organise safe access to craft whether sailing, moored or at anchor and knows how to use e.g. stairway, gangplank, ship's boat, fall protection and illumination. 2. Ability to give instruction if necessary in the case of an alarm.		

Ref No	COMPETENCE:	ABILITIES TO DEMONSTRATE	ADVICE ON AREAS FOR IMPROVEMENT	ABILITIES DEMONSTRATED Designated Training Person/ Boatmaster (Full name/Date)
4.	Use modern electronic navigation aids	<ol style="list-style-type: none"> 1. Ability to use nautical sensors and indicators providing navigation information, e.g. (D) GPS, position, heading, course, speed, distance, depth, Inland ECDIS, radar. 2. Ability to use (RIS) River Information Services and technologies, e.g. Inland AIS, Inland ECDIS, Electronic Reporting and Notices to Skipper, FIS (Fairway Information Services), TIS (Traffic Information Services), TMS (Traffic Management Services), CAS (Calamity Abatement Services), ITL (Information for Transport Logistics), ILE (Information for Law Enforcement), ST (Statistics), WCHD (Waterway Charges and Harbour Dues) distance, depth, and radar. 2. Ability to use (RIS) River Information Services and technologies, e.g. Inland AIS, Inland ECDIS, Electronic Reporting and Notices to Skipper, FIS (Fairway Information Services), TIS (Traffic Information Services), TMS (Traffic Management Services), CAS (Calamity Abatement Services), ITL (Information for Transport Logistics), ILE (Information for Law Enforcement), ST (Statistics), WCHD (Waterway Charges and Harbour Dues) distance, depth, and radar. 3. Ability to detect misrepresentation of information and application of methods of correction. 		
5.	Respect technical requirements for inland navigation	<ol style="list-style-type: none"> 1. Ability to initiate checks and certification procedures. 		
6.	Consider effects of current, waves, wind and water-levels in relation with interactions of crossing, meeting and overtaking craft as well as ship-shore (canal effect)	<ol style="list-style-type: none"> 1. Ability to respect interaction effects when sailing, manoeuvring and when stationary in a narrow fairway. Recognises the interaction effects related to empty or loaded craft. 2. Ability to take into account trim, angle of heel, down flooding, lever principle, points of gravity. 		

Ref No	COMPETENCE:	ABILITIES TO DEMONSTRATE	ADVICE ON AREAS FOR IMPROVEMENT	ABILITIES DEMONSTRATED Designated Training Person/ Boatmaster (Full name/Date)
7.	Use of propulsion and manoeuvring systems as well as appropriate communication and alarm systems	1. Ability to use anchor in various circumstances.		
8.	Sail and manoeuvre, also in situations that involve high traffic density or where other craft carry dangerous goods, requiring basic knowledge of the ADN.	1. Ability to find instructions in ADN and identifies visual signs for craft subject to ADN.		

1.4 The boatmaster shall be able to:

- respond to navigational emergencies on inland waterways

Ref No	COMPETENCE:	ABILITIES TO DEMONSTRATE	ADVICE ON AREAS FOR IMPROVEMENT	ABILITIES DEMONSTRATED Designated Training Person/ Boatmaster (Full name/Date)
1.	Take precautions in an emergency when intentionally beaching a craft in order to prevent greater damage	1. Ability to adequately use machines or anchoring devices if beaching becomes necessary.		
2.	Refloat a grounded craft with and without assistance	1. Ability to seal leaks, and to redirect the craft with the assistance of other crafts, e.g. tug or push vessels.		
3.	Take appropriate action if collision is imminent	1. Ability to navigate the craft when in an unavoidable collision situation in such a way that damage will be minimal to persons, e.g. passengers and crew members, the colliding craft and other craft, the cargo and the environment.		
4.	Take appropriate action after a collision, including assessment of damage	1. Ability to take the appropriate measures in the event of damage, collision and running aground, including assessment of the damage, communication with the competent authority, and obtainment of permission to sail to a position of recovery.		

2 OPERATION OF THE CRAFT

Competence requirements:

2.1 The boatmaster shall be able to:

- apply knowledge of inland waterway shipbuilding and construction methods to the operation of various types of craft, and have basic knowledge of the technical requirements for inland waterway vessels, as referred to in Directive (EU) 2016/1629 of the European Parliament and of the Council of 14 September 2016

Ref No	COMPETENCE:	ABILITIES TO DEMONSTRATE	ADVICE ON AREAS FOR IMPROVEMENT	ABILITIES DEMONSTRATED Designated Training Person/ Boatmaster (Full name/Date)
1.	Respect the principles of inland waterway shipbuilding and construction	<ol style="list-style-type: none"> 1. Ability to operate craft according to their dimensions and applicable construction legislation. 2. Ability to supervise the compliance of the craft with the applicable legislation, taking into account construction work. 		
2.	Distinguish construction methods of crafts and their behaviour in the water, especially in terms of stability and strength	<ol style="list-style-type: none"> 1. Ability to supervise the craft's stability and gives instructions accordingly. 		
3.	Understand structural parts of a craft and damage control & analysis	<ol style="list-style-type: none"> 1. Ability to monitor the craft's core elements for the different types of transport and give instructions accordingly. 2. Ability to understand, and controls, the functions of the equipment as well as usage of different holds and compartments in order to prevent and analyse damage. 		
4.	Take action to protect the craft's watertight integrity	<ol style="list-style-type: none"> 1. Ability to supervise the craft's watertight integrity and gives instructions accordingly. 		

2.2 The boatmaster shall be able to:

- control and monitor the mandatory equipment as mentioned in the applicable craft certificate

Ref No	COMPETENCE:	ABILITIES TO DEMONSTRATE	ADVICE ON AREAS FOR IMPROVEMENT	ABILITIES DEMONSTRATED Designated Training Person/ Boatmaster (Full name/Date)
1.	Understand functionalities of craft equipment	1. Ability to use, and controls, all equipment in relation to their functionalities according to applicable legislation, and gives instructions and supervises accordingly.		
2.	Respect specific requirements for transport of cargo and passengers	1. Ability to give instructions and supervises accordingly. 2. Ability to give instructions and supervise the correct application of the requirements of the certificate.		

3 CARGO HANDLING, STOWAGE AND PASSENGER TRANSPORT

Competence requirements:

3.1 The boatmaster shall be able to:

- plan and ensure safe loading, stowage, securing, unloading and care of cargoes during the voyage

Ref No	COMPETENCE:	ABILITIES TO DEMONSTRATE	ADVICE ON AREAS FOR IMPROVEMENT	ABILITIES DEMONSTRATED Designated Training Person/ Boatmaster (Full name/Date)
1.	Understand relevant national, European and international regulations, codes and standards concerning the operation of transporting cargoes	1. Ability to apply relevant rules and standards for logistics and multimodal transport.		
2.	Compose stowage plans including knowledge of loading cargoes and ballast systems in order to keep hull stress within acceptable limits	1. Ability to interpret limits for bending moments and shear forces. 2. Ability to compose stowage plans, including the use of stowage and stability software.		
3.	Control loading and unloading procedures with regard to safe transport	1. Ability to stow and secures cargo including necessary cargo-handling gear and securing & lashing equipment. 2. Ability to determine the amount of loaded or discharged cargo and calculates the amount of dry and liquid cargo. 3. Ability to use the technical means for handling cargoes into or out of craft and ports, and labour safety measures during their usage.		
4.	Differentiate various goods and their characteristics in order to monitor and ensure safe and secure loading of goods as laid down in the stowage plan	1. Ability to establish the procedures for safe cargo handling in accordance with the provisions of the relevant safe working regulations.		

3.2. The boatmaster shall be able to:

- plan and ensure the stability of the craft

Ref No	COMPETENCE:	ABILITIES TO DEMONSTRATE	ADVICE ON AREAS FOR IMPROVEMENT	ABILITIES DEMONSTRATED Designated Training Person/ Boatmaster (Full name/Date)
1.	Respect the effect on trim and stability of cargoes and cargo operations	1. Ability to use instruments to correct trim and stability.		
2.	Check the effective tonnage of the craft, use stability and trim diagrams and stress calculating equipment, including ADB (Automatic Data-Base) to check a stowage plan	1. Ability to determine stability and trim. Uses stress tables, diagrams and stress-calculating equipment.		

3.3. The boatmaster shall be able to:

- plan and ensure safe transport of, and care for, passengers during the voyage including providing direct assistance to disabled persons and persons with reduced mobility in accordance with the training requirements and instructions of Annex IV to Regulation (EU) No 1177/2010

Ref No	COMPETENCE:	ABILITIES TO DEMONSTRATE	ADVICE ON AREAS FOR IMPROVEMENT	ABILITIES DEMONSTRATED Designated Training Person/ Boatmaster (Full name/Date)
1.	Understand relevant national, European and international regulations, codes and standards concerning the transportation of passengers	<ol style="list-style-type: none"> 1. Ability to ensure safe embarking and disembarking of passengers and their care during the voyage, with special attention to persons needing assistance (i.e. direct assistance to disabled persons and persons with reduced mobility) in accordance with the training requirements and instructions of Annex IV to Regulation (EU) No 1177/2010. 2. Ability to control procedures in case of leakage, fire, person overboard, collision and evacuation, including crisis and crowd management. 		
2.	Arrange and monitor regular exercises on safety as laid down in the (Safety) Muster List in order to guarantee safe behaviour in potentially dangerous situations	<ol style="list-style-type: none"> 1. Ability to implement shipboard personnel management and training with respect to safety. 2. Ability to apply medical first aid on board vessel. 		
3.	Respect impacts on stability of the passenger vessel in relation to weight distribution of passengers, behaviour, and communication with passengers	<ol style="list-style-type: none"> 1. Ability to apply relevant measures regarding watertight integrity including influence on trim and stability of passenger vessels. 2. Ability to use standardised communication phrases. 		
4.	Define and monitor on-board risk analysis of limited access for passengers as well as compile an effective on-board protection system in order to prevent unauthorised access	<ol style="list-style-type: none"> 1. Ability to organise watch-keeping (i.e. night watch) systems with respect to safety and security. 		

Ref No	COMPETENCE:	ABILITIES TO DEMONSTRATE	ADVICE ON AREAS FOR IMPROVEMENT	ABILITIES DEMONSTRATED Designated Training Person/ Boatmaster (Full name/Date)
5.	Analyse reports given by passengers (i.e. unforeseen occurrences, defamation, vandalism) in order to react appropriately.	<ol style="list-style-type: none"> 1. Ability to prevent environmental pollution by passengers and crew. 2. Ability to handle complaints and use conflict management strategies. 3. Ability to communicate with shipboard personnel and all interacting parties. 		

4 MARINE ENGINEERING AND ELECTRICAL, ELECTRONIC AND CONTROL ENGINEERING

Competence requirements:

4.1 The boatmaster shall be able to:

- plan the workflow of marine engineering and electrical, electronic and control engineering

Ref No	COMPETENCE:	ABILITIES TO DEMONSTRATE	ADVICE ON AREAS FOR IMPROVEMENT	ABILITIES DEMONSTRATED Designated Training Person/ Boatmaster (Full name/Date)
1.	Use the functionality of the main engines, auxiliary equipment, and their control systems	<ol style="list-style-type: none"> 1. Ability to use various systems of different propulsion systems and auxiliary machinery and equipment. 		
2.	Monitor and supervise crew members when operating and maintaining the main engines, auxiliary machinery and equipment.	<ol style="list-style-type: none"> 1. Ability to manage the crew with respect to technical equipment operation and maintenance. 2. Ability to manage start up and shut down of the main propulsion, auxiliary machinery, and equipment. 		

4.2. The boatmaster shall be able to:

- monitor the main engines and auxiliary machinery and equipment

Ref No	COMPETENCE:	ABILITIES TO DEMONSTRATE	ADVICE ON AREAS FOR IMPROVEMENT	ABILITIES DEMONSTRATED Designated Training Person/ Boatmaster (Full name/Date)
1.	Give instructions to prepare main engines and auxiliary machinery and equipment	<ol style="list-style-type: none">1. Ability to instruct the crew in the preparation and operation of the main and auxiliary machinery and equipment.2. Ability to set up and monitor checklists and gives instructions regarding the proper use of such checklists.3. Ability to instruct crew on principles to be observed during engine surveillance.		
2.	Detect malfunctions, common faults, and take actions to prevent damage	<ol style="list-style-type: none">1. Ability to detect malfunctions, frequent sources of error or inappropriate treatment, and responds adequately.2. Ability to instruct actions to be taken in order to prevent damage or to take measures for damage control.		
3.	Understand the physical and chemical characteristics of oil and other lubricants	<ol style="list-style-type: none">1. Ability to use oil and other lubricants according to their specifications.2. Ability to understand machinery handbooks.		
4.	Evaluate engine performance	<ol style="list-style-type: none">1. Ability to use and interpret manuals to evaluate engine performance and operates engines appropriately.		

4.3 The boatmaster shall be able to:

- plan and give instructions in relation to the pump and the pump control system of the craft

Ref No	COMPETENCE:	ABILITIES TO DEMONSTRATE	ADVICE ON AREAS FOR IMPROVEMENT	ABILITIES DEMONSTRATED Designated Training Person/ Boatmaster (Full name/Date)
1.	Monitor routine pump works, ballast and loading pump systems	1. Ability to ensure monitoring of safe operation of bilge, ballast and cargo pump systems including adequate instruction to the crew, taking into account free surface effects on stability.		

4.4. The boatmaster shall be able to:

- to organise the safe use and application, maintenance and repair of the electro-technical devices of the craft

Ref No	COMPETENCE:	ABILITIES TO DEMONSTRATE	ADVICE ON AREAS FOR IMPROVEMENT	ABILITIES DEMONSTRATED Designated Training Person/ Boatmaster (Full name/Date)
1.	Prevent potential damage to electric and electronic devices on board	1. Ability to apply safe working practices.		
2.	Test control systems and instruments to recognise faults and at the same time take actions to repair and maintain electrical or electronic control equipment	1. Ability to operate, test and maintain control systems and takes appropriate measures.		
3.	Give instructions prior to, and follow-up, activities to connect or disconnect technical shore-based facilities	1. Ability to give instructions to guarantee safe shore connection at any time and recognises dangerous situations with regard to shore-based facilities.		

4.5 The boatmaster shall be able to:

- control the safe maintenance and repair of technical devices

Ref No	COMPETENCE:	ABILITIES TO DEMONSTRATE	ADVICE ON AREAS FOR IMPROVEMENT	ABILITIES DEMONSTRATED Designated Training Person/ Boatmaster (Full name/Date)
1.	Ensure appropriate use of tools to maintain and repair technical devices	1. Ability to organise and instruct on safe maintenance and repair using appropriate procedures (control), equipment and software.		
2.	Assess characteristics and limitations of materials as well as implement necessary procedures used to maintain and repair technical devices	1. Ability to apply maintenance and repair procedures on devices according to manuals.		
3.	Evaluate technical and internal documentation	1. Ability to set up checklists for maintenance and repair of technical devices.		

5 MAINTENANCE AND REPAIR

Competence requirements:

5.1 The boatmaster shall be able to:

- organise safe maintenance and repair of the craft and its equipment

Ref No	COMPETENCE:	ABILITIES TO DEMONSTRATE	ADVICE ON AREAS FOR IMPROVEMENT	ABILITIES DEMONSTRATED Designated Training Person/ Boatmaster (Full name/Date)
1.	Ensure safe behaviour of crew members with regard to the use of materials and additives	<ol style="list-style-type: none"> 1. Ability to monitor and supervise crew in applying precautions that contribute to the prevention of pollution of the marine environment. 2. Ability to apply and observe the applicable labour regulations and safe working rules and ensure they are respected. 		
2.	Define, monitor and ensure work orders so that crew members are able to perform maintenance & repair work independently;	<ol style="list-style-type: none"> 1. Ability to use (digital) maintenance planning programmes effectively. 2. Ability to control, maintain and repair the craft's inner and outer parts considering applicable legal requirements such as safety data sheets. 3. Ability to manage the hygiene of the craft. 4. Ability to organise waste management, taking into account environmental regulations such as the Convention on the collection, deposit and reception of waste produced during navigation on the Rhine and inland waterways (CDNI Convention). 5. Ability to implement the periodic programme of maintenance on the craft. 6. Ability to monitor and control technical documents of the craft and keep maintenance logs. 		
3.	Purchase and control material and tools with regard to health and environmental protection	<ol style="list-style-type: none"> 1. Ability to administer the craft's stocks. 2. Ability to organise a safe working system on board including the use of hazardous materials for cleaning and conservation work. 3. Ability to check the quality of the repairs. 		
4.	Ensure wires and ropes are being used according to the manufacturer's specifications and intended purpose	<ol style="list-style-type: none"> 1. Ability to instruct and supervise the crew in accordance with the working procedures and safety limitations when using ropes and wires according to the craft's certificate and datasheets. 		

6 COMMUNICATION

Competence requirements:

6.1 The boatmaster shall be able to:

- perform human resources management, be socially responsible, and take care of organisation of workflow and training on board the craft

Ref No	COMPETENCE:	ABILITIES TO DEMONSTRATE	ADVICE ON AREAS FOR IMPROVEMENT	ABILITIES DEMONSTRATED Designated Training Person/ Boatmaster (Full name/Date)
1.	Organise and initiate team-building activities, and coach the crewmembers regarding shipboard duties. If necessary, take disciplinary measures	<ol style="list-style-type: none"> 1. Ability to give instructions to the crew in an appropriate and professional way. 2. Ability to explain given instructions to the crew. 3. Ability to give feedback to the crew about professional and social behaviour on board. 4. Ability to apply task and workload management, including: planning and co-ordination, personnel assignment, time and resource constraints, prioritisation. 5. Ability to recognise and prevent fatigue. 		
2.	Instruct crew on information- and communication systems	<ol style="list-style-type: none"> 1. Ability to instruct the crew on the use of the craft's communication, media and IT systems. 		
3.	Collect, save and manage data with regard to data protection laws	<ol style="list-style-type: none"> 1. Ability to collect and store data in accordance with applicable legislation. 		

6.2. The boatmaster shall be able to:

- ensure good communication at all times, including the use of standardised communication phrases in situations with communication problems

Ref No	COMPETENCE:	ABILITIES TO DEMONSTRATE	ADVICE ON AREAS FOR IMPROVEMENT	ABILITIES DEMONSTRATED Designated Training Person/ Boatmaster (Full name/Date)
1.	Describe circumstances by using relevant technical and nautical terminology	1. Ability to master communication.		
2.	Retrieve, evaluate and use information with relevance to safety on board as well as nautical-technical issues	1. Ability to use standard communication phrases.		

6.3 The boatmaster shall be able to:

- foster a well-balanced and sociable on-board working environment

Ref No	COMPETENCE:	ABILITIES TO DEMONSTRATE	ADVICE ON AREAS FOR IMPROVEMENT	ABILITIES DEMONSTRATED Designated Training Person/ Boatmaster (Full name/Date)
1.	Ensure a good social working environment	<ol style="list-style-type: none"> 1. Ability to take the lead in organising team meetings to keep the social atmosphere on board well balanced. 2. Ability to guide students, apprentices and trainees on various levels. 3. Ability to apply basic teamwork principles and practice including conflict management. 		
2.	Apply national, European and international social legislation	<ol style="list-style-type: none"> 1. Ability to instruct crew members in using relevant parts of applicable social legislation. 		
3.	Follow strict alcohol and drug prohibition and react appropriately in cases of infringement. Take responsibility and explain consequences of misbehaviour	<ol style="list-style-type: none"> 1. Ability to communicate and ensure compliance with applicable legislation and awareness of company rules concerning alcohol and drugs. 2. Ability to react appropriately upon violation of legislation or company rules. 		
4.	Organise provisioning and preparation of meals on board	<ol style="list-style-type: none"> 1. Ability to instruct crew members in planning and preparing meals. 2. Ability to instruct and supervise crew members regarding hygiene standards. 3. Ability to instruct crew members in planning purchasing options. 		

7 HEALTH AND SAFETY, ENVIRONMENTAL PROTECTION AND PASSENGER RIGHTS

Competence requirements:

7.1 The boatmaster shall be able to:

- monitor the applicable legal requirements and take measures to ensure the safety of life

Ref No	COMPETENCE:	ABILITIES TO DEMONSTRATE	ADVICE ON AREAS FOR IMPROVEMENT	ABILITIES DEMONSTRATED Designated Training Person/ Boatmaster (Full name/Date)
1.	Apply national and international legislation and take appropriate measures for health protection and the prevention of accidents	1. Ability to apply safety procedures based on applicable legislation in the field of safety and working conditions.		
2.	Control and monitor validity of the craft's certificate and other documents relevant to the craft and its operation	1. Ability to check the validity of certificates and other documents relevant to the craft and its operation.		
3.	Comply with safety regulations during all working procedures by using relevant safety measures in order to avoid accidents	1. Ability to organise safe working procedures, to motivate and monitor crew members and apply safe working rules.		
4.	Control and monitor all safety measures necessary for cleaning enclosed spaces before persons open, enter and clean those facilities	1. Ability to organise safety control and monitor safety procedures if crew or other persons enter enclosed spaces (e.g. ballast tanks, cofferdams, tanks, double hull spaces) including keeping watch. 2. Ability to conduct a risk assessment before entering enclosed spaces. 3. Ability to take appropriate actions in the event of an emergency.		

7.2 The boatmaster shall be able to:

- maintain safety and security for persons on board including giving direct assistance to disabled persons and persons with reduced mobility in accordance with the training requirements and instructions of Annex IV to Regulation (EU) No 1177/2010

Ref No	COMPETENCE:	ABILITIES TO DEMONSTRATE	ADVICE ON AREAS FOR IMPROVEMENT	ABILITIES DEMONSTRATED Designated Training Person/ Boatmaster (Full name/Date)
1.	Use life-saving equipment and implement life-saving procedures for victims and for own personal safety	1. Ability to use life-saving equipment and applies life-saving procedures to victims and for personal safety.		
2.	Organise crisis management training exercises for behaviour in emergency situations, e.g. fire, leakage warning, explosion, collision, 'person overboard' and evacuation	1. Ability to instruct crew members on emergency procedures. 2. Ability to organise periodic training of the crew on board the vessel in preparation for an emergency situation including organisation of fire fighting and abandon craft drills.		
3.	Give instructions related to fire prevention, personal protection equipment, methods, firefighting material, respirators and possible application of these devices in emergencies	1. Ability to comply with relevant regulations on fire detection systems, fixed and mobile fire-extinguishing equipment and related appliances (e.g. pumping, rescue, salvage, personal protective and communication equipment). 2. Ability to control the monitoring and maintenance of fire detection and extinguishing systems and equipment. 3. Ability to instruct crew and shipboard personnel to apply safe working rules and to maintain personal protection and personal safety equipment.		
4.	Perform first aid	1. Ability to act in compliance with first aid standards and practices.		
5.	Establish an effective on-board system to control life-saving appliances and correct application of personal protection equipment	1. Ability to maintain and perform periodic checks of operational condition of life-saving, fire-fighting and other safety equipment and systems. 2. Ability to instruct on, to encourage and supervise, the correct use of (personal) safety equipment by crew members and shipboard personnel.		

Ref No	COMPETENCE:	ABILITIES TO DEMONSTRATE	ADVICE ON AREAS FOR IMPROVEMENT	ABILITIES DEMONSTRATED Designated Training Person/ Boatmaster (Full name/Date)
6.	Organise assistance for disabled persons and persons with reduced mobility	1. Ability to perform and organise direct assistance to disabled persons and persons with reduced mobility.		

7.3 The boatmaster shall be able to:

- set up emergency and damage control plans, and handle emergency situations

Ref No	COMPETENCE:	ABILITIES TO DEMONSTRATE	ADVICE ON AREAS FOR IMPROVEMENT	ABILITIES DEMONSTRATED Designated Training Person/ Boatmaster (Full name/Date)
1.	Initiate preparations for rescue plans of different types of emergencies	1. Ability to organise shipboard contingency plans for responses to emergencies and assign specific duties to crew members including monitoring and control.		
2.	Train in methods to prevent fire, recognition of origin of fire and firefighting according to the different skills of crew members	1. Ability to communicate and coordinate during fire-fighting operations including communication with external organisations. Actively takes part in rescue and fire-fighting operations.		
3.	Train on the use of life-saving appliances/equipment	1. Ability to launch and recover a ship's boat and instructs crew members and shipboard personnel on the use of a ship's boat.		
4.	Give instructions on rescue plans, escape routes and internal communication and alarm systems	1. Ability to give instructions on rescue plans, escape routes, internal communication and alarm systems.		

7.4 The boatmaster shall be able to:

- ensure compliance with requirements for environmental protection

Ref No	COMPETENCE:	ABILITIES TO DEMONSTRATE	ADVICE ON AREAS FOR IMPROVEMENT	ABILITIES DEMONSTRATED Designated Training Person/ Boatmaster (Full name/Date)
1.	Take precautions to prevent environmental pollution and use relevant equipment	<ol style="list-style-type: none"> 1. Ability to take precautions to prevent pollution of the environment. 2. Ability to apply safe bunkering procedures. 3. Ability to take measures and give instructions in the event of damage, collision and running aground including the sealing of leak. 		
2.	Apply environmental protection laws	<ol style="list-style-type: none"> 1. Ability to motivate crew members and board personnel to take relevant measures for environmentally-friendly behaviour or to behave in an environmentally-friendly way. 		
3.	Use equipment and materials in an economical and environmentally friendly way	<ol style="list-style-type: none"> 1. Ability to instruct crew in using equipment and materials in an economical and environmentally-friendly way. 		
4.	Instruct and monitor sustainable waste disposal	<ol style="list-style-type: none"> 1. Ability to ensure sustainable waste disposal and instruct crew members and board personnel accordingly. 		

8 SAILING ON INLAND WATERWAYS WITH A MARITIME CHARACTER

8.1 The boatmaster shall be able to:

- work with up-to-date charts and maps, Notices to Skippers and Mariners and other publications specific to waterways with a maritime character

Ref No	COMPETENCE:	ABILITIES TO DEMONSTRATE	ADVICE ON AREAS FOR IMPROVEMENT	ABILITIES DEMONSTRATED Designated Training Person/ Boatmaster (Full name/Date)
1.	Use information supplied from specific nautical information sources and rules applicable to inland waterways with a maritime character	<ol style="list-style-type: none"> 1. Ability to use and correctly apply charts and maps of inland waterways with maritime characteristics considering factors relating to accuracy of chart reading such as chart date, symbols, soundings, bottom description, depths and datums and international chart standards such as ECDIS. 2. Ability to use Notices to Skippers and Mariners and other information services such as sailing directions, planning guides, light lists, and maritime safety information (MSI). 3. Ability to use maritime equipment governed by specific regulation(s). 		

8.2 The boatmaster shall be able to:

- use tidal datum, tidal currents, periods and cycles, the time of tidal currents and tides and variations across an estuary

Ref No	COMPETENCE:	ABILITIES TO DEMONSTRATE	ADVICE ON AREAS FOR IMPROVEMENT	ABILITIES DEMONSTRATED Designated Training Person/ Boatmaster (Full name/Date)
1.	Consider tides, tidal, weather forecast and conditions before casting-off and when sailing	<ol style="list-style-type: none"> 1. Ability to determine the impact on the planned voyage of tidal level, current, weather conditions and waves, for safe navigation. 		

8.3 The boatmaster shall be able to:

- use SIGNI (Signalisation des voies de navigation intérieure) and IALA (International Association of Marine Aids to Navigation and Lighthouse Authorities) for safe navigation on inland waterways with a maritime character.

Ref No	COMPETENCE:	ABILITIES TO DEMONSTRATE	ADVICE ON AREAS FOR IMPROVEMENT	ABILITIES DEMONSTRATED Designated Training Person/ Boatmaster (Full name/Date)
1.	Use SIGNI (Signalisation des voies de navigation intérieure), IALA (International Association of Marine Aids to Navigation and Lighthouse Authorities) or other local marking and signal systems	1. Ability to use the marking and signal systems to determine the appropriate craft position in the waterway with respect to local circumstances and conditions.		

9. SAILING WITH THE AID OF RADAR

9.1 The boatmaster shall be able to:

- take appropriate action in relation to navigation with the aid of radar before casting off

Ref No	COMPETENCE:	ABILITIES TO DEMONSTRATE	ADVICE ON AREAS FOR IMPROVEMENT	ABILITIES DEMONSTRATED Designated Training Person/ Boatmaster (Full name/Date)
1.	Prepare for the start of a journey and use of navigational radar installations and rate-of-turn indicators for navigation especially in reduced visibility conditions	1. Ability to switch on, adjust and control navigational radar installations such as Tune, Gain, Brilliance, On/Standby, Range. Uses rate-of-turn indicators in inland navigation and assures their correct usage.		

9.2 The boatmaster shall be able to:

- interpret radar display and analyse the information supplied by radar

Ref No	COMPETENCE:	ABILITIES TO DEMONSTRATE	ADVICE ON AREAS FOR IMPROVEMENT	ABILITIES DEMONSTRATED Designated Training Person/ Boatmaster (Full name/Date)
1.	Interpret the radar display correctly with respect to own and other craft positions;	<ol style="list-style-type: none"> 1. Ability to interpret the radar display by correctly identifying the position of the antenna on the screen, heading line, setting position, course and turning direction of own craft, determining distances and reach. 2. Ability to interpret the behaviour of other traffic participants (stationary craft, oncoming craft and craft heading in the same direction). 		
2.	Analyse other information supplied by radar	<ol style="list-style-type: none"> 1. Ability to analyse the information supplied by radar such as heading line (HL), electronic bearing line (EBL), range rings and variable range marker (VRM), target trails, decentring, parallel lines (P-Lines) and explains the radar picture. 2. Ability to interpret stationary and moving objects displayed on the radar. 		

9.3 The boatmaster shall be able to:

- reduce interference of varying origin

Ref No	COMPETENCE:	ABILITIES TO DEMONSTRATE	ADVICE ON AREAS FOR IMPROVEMENT	ABILITIES DEMONSTRATED Designated Training Person/ Boatmaster (Full name/Date)
1.	Identify and reduce disturbances coming from the own craft	1. Ability to take action to reduce disturbances coming from own craft.		
2.	Identify and reduce disturbances coming from the environment	1. Ability to take action to reduce disturbances coming from the environment (by using Anti-Rain Clutter (FTC) and Anti-Sea Clutter (STC)).		
3.	Identify and reduce disturbances coming from other radar navigation installations	1. Ability to take action to remove disturbances coming from other navigational radar installations (interference rejection/IR).		

9.4 The boatmaster shall be able to:

- navigate by radar taking into account the agreed set of rules applicable to inland navigation and in accordance with the regulations specifying the requirements for navigating by radar (such as manning requirements or technical requirements for vessels)

Ref No	COMPETENCE:	ABILITIES TO DEMONSTRATE	ADVICE ON AREAS FOR IMPROVEMENT	ABILITIES DEMONSTRATED Designated Training Person/ Boatmaster (Full name/Date)
1.	Apply rules governing the use of radar	1. Ability to correctly use navigational radar installation, rate-of-turn indicators and Inland ECDIS combined with radar. 2. Ability to effectively delegate tasks to crew members and give appropriate instructions.		

9.5 The boatmaster shall be able to:

- handle specific circumstances, such as density of traffic, failure of devices, dangerous situations

Ref No	COMPETENCE:	ABILITIES TO DEMONSTRATE	ADVICE ON AREAS FOR IMPROVEMENT	ABILITIES DEMONSTRATED Designated Training Person/ Boatmaster (Full name/Date)
1.	React appropriately in exceptional circumstances such as high traffic density, failure of devices and other unclear or dangerous traffic situations	<ol style="list-style-type: none">1. Ability to take appropriate measures in high traffic density.2. Ability to react in case of failure of devices.3. Ability to react in case of any unclear or dangerous traffic situation.		

10. PASSENGER NAVIGATION EXPERTS

10.1 The expert shall be able to:

- organise the use of life-saving equipment on board passenger vessels

Ref No	COMPETENCE:	ABILITIES TO DEMONSTRATE	ADVICE ON AREAS FOR IMPROVEMENT	ABILITIES DEMONSTRATED Designated Training Person/ Boatmaster (Full name/Date)
1.	Organise the use of life-saving equipment	<ol style="list-style-type: none">1. Ability to demonstrate the use of life-saving equipment for passengers including passengers with reduced mobility.		

10.2 The expert shall be able to:

- to apply safety instructions and take the necessary measures to protect passengers, especially in the event of emergencies (e.g. evacuation, damage, collision, running aground, fire, explosion or other situations which may give rise to panic) including providing direct assistance to disabled persons and persons with reduced mobility in accordance with training requirements and instructions of Annex IV to Regulation (EU) No 1177/2010

Ref No	COMPETENCE:	ABILITIES TO DEMONSTRATE	ADVICE ON AREAS FOR IMPROVEMENT	ABILITIES DEMONSTRATED Designated Training Person/ Boatmaster (Full name/Date)
1.	Apply safety instructions	<ol style="list-style-type: none"> 1. Ability to monitor the safety systems and equipment, organise checks and control of the passenger vessel safety equipment including breathing apparatus. 2. Ability to conduct exercises on emergency situations. 3. Ability to instruct crew members and shipboard personnel named on the the safety rota on the use of life-saving equipment, escape routes, muster areas and evacuation areas in the case of an emergency. 4. Ability to provide information to passengers at the beginning of the voyage on the code of conduct and contents of the safety plan. 		
2.	Take necessary measures to protect passengers in general and in emergency situations	<ol style="list-style-type: none"> 1. Ability to implement safety rota planning for evacuation of parts of the vessel or of the entire vessel, taking into account different emergency situations (e.g. smoke, fire, leakage, danger to vessel stability and dangers arising from cargo transported on board). 2. Ability to provide necessary information to the boatmaster, passengers and external rescue forces. 		
3.	Provide assistance and give instructions so that disabled persons and passengers with reduced mobility can embark, stay on board and disembark safely.	<ol style="list-style-type: none"> 1. Ability to implement rules on non-discriminatory access and safety rota planning for disabled persons and persons with reduced mobility. This includes all training requirements referred to in Annex IV to Regulation (EU) No 1177/2010. 		

10.3 The expert shall be able to:

- communicate in elementary English

Ref No	COMPETENCE:	ABILITIES TO DEMONSTRATE	ADVICE ON AREAS FOR IMPROVEMENT	ABILITIES DEMONSTRATED Designated Training Person/ Boatmaster (Full name/Date)
1.	Communicate safety-related issues in elementary English	1. Ability to use elementary English vocabulary and pronunciation of wording suited to guiding all persons on board in standard situations, and to alert and guide them in the event of emergencies.		

10.4 The expert shall be able to:

- meet the relevant requirements of Regulation (EU) No 1177/2010

Ref No	COMPETENCE:	ABILITIES TO DEMONSTRATE	ADVICE ON AREAS FOR IMPROVEMENT	ABILITIES DEMONSTRATED Designated Training Person/ Boatmaster (Full name/Date)
1.	Provide assistance to passengers concerning passenger rights	1. Ability to inform passengers on applicable passenger rights. 2. Ability to implement applicable procedures to provide access and professional assistance.		

11. LIQUEFIED NATURAL GAS (LNG) EXPERTS

11.1 The expert shall be able to:

- ensure compliance with legislation and standards applicable to craft that use LNG as fuel, as well as with other relevant health and safety regulations

Ref No	COMPETENCE:	ABILITIES TO DEMONSTRATE	ADVICE ON AREAS FOR IMPROVEMENT	ABILITIES DEMONSTRATED Designated Training Person/ Boatmaster (Full name/Date)
1.	Ensure compliance with relevant legislation and standards applicable to craft using LNG as fuel	1. Ability to instruct and monitor crew member operations in order to ensure compliance with legislation and standards applicable to craft using LNG as a fuel and in particular with the bunkering procedure.		
2.	Ensure compliance with other relevant health and safety regulations when sailing and moored	1. Ability to instruct and monitor crew member operations in order to ensure compliance with other relevant health and safety regulations.		

11.2 The expert shall be able to:

- be aware of specific points of attention related to LNG, recognise the risks and manage them

Ref No	COMPETENCE:	ABILITIES TO DEMONSTRATE	ADVICE ON AREAS FOR IMPROVEMENT	ABILITIES DEMONSTRATED Designated Training Person/ Boatmaster (Full name/Date)
1.	Recognise risks and manage them.	1. Ability to apply risk-management principles, to document on-board safety strategies (including safety plan and safety instructions), to assess and control dangerous areas, manage fire safety and to use personal protective equipment.		

11.3 The expert shall be able to:

- operate the LNG-specific systems in a safe way

Ref No	COMPETENCE:	ABILITIES TO DEMONSTRATE	ADVICE ON AREAS FOR IMPROVEMENT	ABILITIES DEMONSTRATED Designated Training Person/ Boatmaster (Full name/Date)
1.	Operate both the LNG-specific systems on-board and those connected to on-board systems in a safe way	1. Ability to present the mode of action of LNG, read pressure and temperature, operate stripping, containment, gas supply, ventilation, pipe and safety systems, valves and management of boil-off of LNG.		

11.4 The expert shall be able to:

- ensure regular checking of the LNG system

Ref No	COMPETENCE:	ABILITIES TO DEMONSTRATE	ADVICE ON AREAS FOR IMPROVEMENT	ABILITIES DEMONSTRATED Designated Training Person/ Boatmaster (Full name/Date)
1.	Perform and monitor regular checks of the LNG system.	1. Ability to perform daily maintenance, weekly maintenance, regular periodic maintenance, to correct malfunctions and to document maintenance work.		

11.5 The expert shall be able:

- to know how to perform LNG bunkering operations in a safe and controlled manner.

Ref No	COMPETENCE:	ABILITIES TO DEMONSTRATE	ADVICE ON AREAS FOR IMPROVEMENT	ABILITIES DEMONSTRATED Designated Training Person/ Boatmaster (Full name/Date)
1.	Perform and monitor bunkering procedures in a safe way	<ol style="list-style-type: none">1. Ability to start and monitor bunkering procedures including measures to guarantee safe mooring, correct position of cables & pipes in order to avoid leakage and take measures to safely disconnect LNG and bunkering connection if needed at any time.2. Ability to ensure compliance with relevant safety zone regulations.3. Ability to report start of bunkering procedure and perform safe bunkering according to manual. Being able to monitor pressure, temperature and LNG level in tanks.4. Ability to purge pipe systems, close valves and disconnect craft from bunkering installation. Reports end of procedure after bunkering.		

11.6 The expert shall be able to:

- prepare the LNG system for craft maintenance

Ref No	COMPETENCE:	ABILITIES TO DEMONSTRATE	ADVICE ON AREAS FOR IMPROVEMENT	ABILITIES DEMONSTRATED Designated Training Person/ Boatmaster (Full name/Date)
1.	Prepare the LNG system for craft maintenance and for renewed use	<ol style="list-style-type: none">1. Ability to perform: inerting of the LNG system, LNG fuel tank drainage procedure, first filling of LNG fuel tank (drying and cooldown), entry into service following a shipyard stay.		

- 7 The expert shall be able to:**
- handle emergency situations related to LNG

Ref No	COMPETENCE:	ABILITIES TO DEMONSTRATE	ADVICE ON AREAS FOR IMPROVEMENT	ABILITIES DEMONSTRATED Designated Training Person/ Boatmaster (Full name/Date)
1.	React appropriately in emergency situations (e.g. LNG spills and leaks, skin contact with low temperature substance, fire, incidents related to transport of dangerous goods with specific hazards or craft running aground)	<ol style="list-style-type: none"> 1. Ability to react appropriately in case of emergencies such as: on-deck LNG spills, skin contact with LNG, LNG spills in closed spaces (e.g. in engine rooms), LNG spills or natural gas leaks in inter-barrier spaces (e.g. double-walled fuel tanks, double-walled pipes), fire in the vicinity of LNG fuel tanks or in the engine rooms, pressure built up in pipe systems after Emergency Shut Down activation in case of imminent release or venting. 2. Ability to take emergency measures and remote surveillance emergency measures (e.g. to properly control LNG fire, pool, jet and flash fire). 		

ASSIGNMENT



13. ASSIGNMENTS

This section of the TRB details the assignments required in order for the candidate to qualify for the Union Certificate of Qualification at Management Level. The candidate will complete these assignments during his/her training on board inland navigation vessels and also on simulator equipment. The primary purpose is to acquire a series of competences and practical abilities necessary for his/her own professional progress, reaching the standards laid out in Directive (EU) 2017/2397 on the Recognition of Professional Qualifications in Inland Navigation. Additionally, the assignments are designed to ensure the candidate obtains & demonstrates, via practical exams, the competence, knowledge and skills required to meet the standards laid down by Delegated Directive (EU) 2020/12 for the approval of simulators and for medical fitness.

Simulator training toward the Union Certificate of Qualification as a Boatmaster must take into account the mandatory standards for practical examination, namely the specific examination elements suitable for training on both a Full Mission Bridge inland navigation simulator and engine room simulator.

The same mandatory standards for practical examination principles apply to simulator-based training of candidates wishing to obtain specific authorisation for sailing with the aid of Radar, for obtaining the certificate of qualification as a Passenger Navigation Expert, and for obtaining the certificate of qualification as a Liquefied Natural Gas (LNG) Expert.

The training of candidates wishing to obtain specific authorisation for sailing on inland waterways of maritime character will be developed based on the specific voluntary standards of competence to be adopted by CESNI. This training will be developed mainly on simulator equipment.

Below you'll find all of the TRB assignments that need to be performed on board your training vessel. The assignments are based on the examination elements from the specific standards and prepare you for the final test.

The assignments focus on the seven core thematic modules from ES-QIN for the deck crew members at Management Level.

Each assignment will be assessed by your Designated Training Person and/or boatmaster. If you have performed the task to a satisfactory degree, s/he will write down the date and his/her remarks. If you have passed all tasks you will receive a final evaluation that you and your Designated Training Person and/or boatmaster will sign.

When your TRB is completed to a satisfactory degree, you may take the final practical test.

Remember to bring your TRB (an online version is permitted), Service Record Book, a copy of the vessel's logbook, and a valid identity document.

Passing requirements are included in the following mandatory standards:

1. Standards for the practical examination for obtaining a certificate of qualification as a Boatmaster
2. Standards for the practical examination for obtaining a specific authorisation for sailing with the aid of radar
3. Standards for the practical examination for obtaining a certificate of qualification as a Passenger Navigation Expert
4. Standards for the practical examination for obtaining a certificate of qualification as a Liquefied Natural Gas (LNG) Expert

ASSIGNMENT 1

NAVIGATION

TRAINEE'S ACTIVITY/COMMENTS

CHECKED BY BOATMASTER/
DESIGNATED TRAINING PERSON

ASSIGNMENT 2

OPERATION OF THE CRAFT

TRAINEE'S ACTIVITY/COMMENTS

CHECKED BY BOATMASTER/
DESIGNATED TRAINING PERSON

ASSIGNMENT 3

CARGO HANDLING, STOWAGE AND
PASSENGER TRANSPORT

TRAINEE'S ACTIVITY/COMMENTS

CHECKED BY BOATMASTER/
DESIGNATED TRAINING PERSON

ASSIGNMENT 4

MARINE ENGINEERING AND ELECTRICAL, ELECTRONIC AND CONTROL ENGINEERING

TRAINEE'S ACTIVITY/COMMENTS

CHECKED BY BOATMASTER/
DESIGNATED TRAINING PERSON

ASSIGNMENT 5

MAINTENANCE AND REPAIR

TRAINEE'S ACTIVITY/COMMENTS

CHECKED BY BOATMASTER/
DESIGNATED TRAINING PERSON

ASSIGNMENT 6

COMMUNICATION

TRAINEE'S ACTIVITY/COMMENTS

CHECKED BY BOATMASTER/
DESIGNATED TRAINING PERSON

ASSIGNMENT 7

HEALTH AND SAFETY, PASSENGER RIGHTS AND ENVIRONMENTAL PROTECTION

TRAINEE'S ACTIVITY/COMMENTS

CHECKED BY BOATMASTER/
DESIGNATED TRAINING PERSON

14. FINAL EVALUATION OF THE TRAINEE

During the final evaluation of the trainee the standards for practical examinations adopted by Directive (EU) 2020/12 must be followed, as well as examination elements included in these standards. This ensures that the trainee has the conditions required to be able to pass the attestation exam for obtaining the Boatmaster certificate and/or specific authorisations/certificates such as the practical examination for obtaining Union certificate of qualification for boatmaster.

The practical examination is conducted during voyage execution and consists of the following elements:

No	Competence	Examination elements	Examination on board the vessel	Examination on simulators
1.	1.1.1	Navigate and manoeuvre the craft appropriate to the situation and in accordance with the statutory requirements of navigational law (as function of current speed and direction, checking of depth of the water and loaded draught, underkeel clearance, traffic density, interaction with other craft etc.).		
2.	1.1.4	Dock and cast off the inland waterway craft, in a correct and proper manner, in compliance with statutory and/or safety-related requirements		
3.	1.1.5	Readjust or reset navigation aids if necessary		
4.	1.1.5	Gather all the information relevant for navigation aids and use it to adapt the handling of the craft		
5.	1.1.6	Turn on the necessary devices at the steering position (navigation aids such as Inland AIS, Inland ECDIS) and adjust them		
6.	2.2.2	Check the craft is ready for the journey in accordance with the regulations, and that the cargo and any other objects have been stowed safely in accordance with the regulations		
7.	4.2.2	Appropriately respond to malfunctions (to be simulated, where appropriate) during navigation (e.g. increase in temperature of cooling water, drop in engine pressure oil, breakdown of radio telephone device, uncertain direction of other craft), deciding on next steps and arrange or take appropriate steps as regards maintenance work to ensure safety of navigation		

No	Competence	Examination elements	Examination on board the vessel	Examination on simulators
8.	5.1.2	Handle the craft in such a way as to be able to anticipate the possibility of an accident and avoid unnecessary wear and tear; frequent checking of the available indicators		
9.	6.1.1	Establish specific communication with the crew members (on-board communication) concerning various manoeuvres and as part of staff meetings (e.g. briefing) or with persons with whom cooperation is required (using all radio communication networks)		
10.	6.2.2	Communicate with the persons concerned (on board) and with other players (sector traffic centre, other craft etc.) during these activities in accordance with the regulations (networks, waterways along the route travelled): use of radio telephone, telephone		
11.	7.3.3	Deal with an emergency situation (to be simulated, where appropriate, e.g. man overboard, breakdown incident, fire on board, the escape of hazardous substances, leaks) by means of prompt and prudent rescue and/or damage limitation manoeuvres or measures. Notifying and informing the relevant individuals and competent authorities in the event of an emergency		
12.	7.3.4	Communicate with the persons concerned in the event of malfunctions (on board) and with other players (use of radio telephone, telephone) so that problems can be resolved		

Practical examination for obtaining a specific authorisation for sailing with the aid of radar

The practical examination consists of the following elements:

No	Competences	Examination elements	Examination on board the vessel	Examination on simulators
1.	1.1	Switch on, adjust and control the functioning of navigational radar installations		
2.	1.1	Switch on, adjust and control the functioning of rate-of-turn indicator		
3.	1.1	Interpret the radar display correctly by setting the range, resolution, brightness, gain, contrast, other connected apparatus, centre and tune		
4.	1.1	Use the rate-of-turn indicator e.g. by setting the rate-of-turn in accordance with maximum rate-of-turn of the craft		
5.	2.1	Identify the position of the antenna on the screen and the heading line, the setting of position, course and turning direction of the own craft and the determining distances and reach		
6.	2.1	Interpret the behaviour of other traffic participants (stationary craft, oncoming craft and craft heading the same direction)		
7.	2.2	Analyse the information supplied by radar such as heading line, electronic bearing line, range rings, and variable range marker, target trails, decentring and parallel lines and to explain the radar picture		
8.	3.1	Reduce disturbances coming from the own craft by checking antenna, by reducing shadows and multiple reflections e. g. in the area of holds		
9.	3.2	Take action to reduce disturbances from the environment by reducing influence from rain and waves, by correctly dealing with scattered fields (e.g. from bridges), false/ghost echoes from power transmission lines and cables as well as with shadowing and multipath effects		
10.	3.3	Remove disturbances coming from other navigational radar installations by using interference rejection		
11.	4.1	Correctly attribute tasks to deck crew members		
12.	4.1	Ensure cooperation between the person at helm and the person using navigational radar installations according to visibility and the features of the wheelhouse		

No	Competences	Examination elements	Examination on board the vessel	Examination on simulators
13.	4.1	Use rate-of-turn indicators and inland ECDIS or similar displays in combination with radar		
14.	4.1	Act according to police regulations in case of reduced visibility and in case of good visibility		
15.	4.1	Use radio, sound signals and to agree on course by using information supplied by radar		
16.	4.1	Give commands to the person at helm including checking the person's required knowledge and skills		
17.	5.1	Take appropriate measures in high traffic density		
18.	5.1	Take appropriate measures in the case of failure of devices		
19.	5.1	React appropriately in unclear or dangerous traffic situations		

Practical examination for obtaining a certificate of qualification as a passenger navigation expert

The practical examination consists of the following elements:

No	Competences	Examination elements	Examination on board the vessel	Examination on simulators
1.	1.1	Demonstrate the use of lifebuoys for passengers		
2.	1.1	Demonstrate the use of life jackets for passengers and deck crew members and shipboard personnel including specific individual life-saving equipment for persons not undertaking duties for the safety rota		
3.	1.1	Demonstrate the use of appropriate equipment for evacuation to shallow water, to the bank or to another craft		
4.	1.1	Demonstrate the use of ship's boats including its engine and searchlight or platform according to Article 19.15 ES-TRIN 2017/1 replacing the ship's boat or collective life-saving appliances according to Article 19.09(5) to (7) ES-TRIN 2017/1		
5.	1.1	Demonstrate the use of suitable stretchers		
6.	1.1	Demonstrate the use of first aid kits		
7.	1.1	Demonstrate the use of self-contained breathing apparatus sets and sets of equipment as well as smoke hoods according to Article 19.12(10) ES-TRIN 2017/1 or a combination thereof		
8.	2.1	Check and monitor inspection intervals for the equipment mentioned in No 1-7 of this table		
9.	2.1	Check and monitor the necessary qualification of persons using first aid kits and self-contained breathing apparatus sets and sets of equipment as well as smoke hoods		
10.	2.1	Appropriately stow and distribute life-saving appliances		
11.	2.3	Identify areas accessible for passengers with reduced mobility		
12.	1.1	Demonstrate the use of life-saving equipment for passengers with reduced mobility		
13.	2.1	Explain elements of the safety rota and the safety plan		
14.	2.1	Attribute tasks to shipboard personnel according to safety rota and safety plan		

No	Competences	Examination elements	Examination on board the vessel	Examination on simulators
15.	2.3	Attribute tasks to shipboard personnel with regard to non-discriminatory access and safety rota planning for passengers with reduced mobility		
16.	2.3	Organise training and instructions for persons with reduced mobility according to Annex IV to Regulation (EU) No 1177/2010		
17.	2.2	Organise the evacuation of a passenger area, explaining specific measures to take in case of collision, running aground, smoke and fire		
18.	2.2.	Fight incipient fire and handle waterproof and fire-retardant doors		
19.	2.2.	Provide necessary information to the boatmaster, passengers and external rescue forces in a simulated emergency		
20.	3.1	Use elementary English vocabulary and pronounce wording suited to guide passengers and shipboard personnel in standard situations and to alert and guide them in the event of emergencies		
21.	4.1	Explain which passenger rights are applicable		
22.	4.1	Implement applicable procedures to provide access and professional assistance to passengers according to Regulation (EU) No 1177/2010		

Practical examination for obtaining a certificate of qualification as an LNG expert

The practical examination consists of the following elements:

No	Competences	Examination elements	Examination on board the vessel	Examination on simulators
1.	1.1	Instruct and monitor crew member operations in order to ensure compliance with legislation and standards applicable to craft using LNG as a fuel and in particular with the bunkering procedure		
2.	1.2	Instruct and monitor crew member operations in order to ensure compliance with other relevant health and safety regulations		
3.	2.2	Conduct risk management, document on-board safety (including safety plan and safety instructions), to assess and control dangerous areas, manage fire safety and use personal protective equipment		
4.	3.1	Present the mode of action of LNG		
5.	3.1	Read pressure and temperature, operate stripping, containment, pipe, gas supply, ventilation, safety systems, valves and to manage boil-off of LNG		
6.	4.1	Perform daily, weekly and regular periodic maintenance		
7.	4.1	Correct malfunctions detected during maintenance		
8.	4.1	Document maintenance workflow		
9.	5.1	Start and monitor bunkering procedures including measures to guarantee safe mooring, correct position of cables & pipes in order to avoid leakage, and to take measures to safely disconnect LNG and bunkering connection if needed at any time		
10.	5.1	Ensure compliance with relevant safety zone regulations		
11.	5.1	Report start of bunkering procedure		
12.	5.1	Perform safe bunkering according to manual, including ability to monitor pressure, temperature and LNG level in tanks		
13.	5.1	Purge pipe systems, to close valves and disconnect craft from bunkering installation. To report end of procedure after bunkering		
14.	6.1	Perform <ul style="list-style-type: none"> - LNG system inerting - LNG fuel tank drainage procedure - First filling of LNG fuel tank (drying and cooling down) - Entry into service following a shipyard stay 		

No	Competences	Examination elements	Examination on board the vessel	Examination on simulators
15.	7.1	React appropriately in case of emergencies: - On-deck LNG spills - Skin contact with LNG - LNG spills in closed spaces (e.g. in engine rooms) - LNG spills or natural gas leaks in inter-barrier spaces (e.g. double- walled fuel tanks, double-walled pipes)		
16.	7.1	React appropriately in case of fire in the vicinity of LNG fuel tanks or in the engine rooms		
17.	7.1	React appropriately in case of pressure built up in pipe systems after emergency shutdown activation in case of imminent release or venting		
18.	7.1	Take emergency measures and remote surveillance emergency measures, e.g. to properly control LNG fire, pool, jet and flash fire		

No.	Assignment	Pass	Fail
1.	NAVIGATION		
2.	OPERATION OF THE CRAFT		
3.	CARGO HANDLING, STOWAGE AND PASSENGER TRANSPORT		
4.	MARINE ENGINEERING AND ELECTRICAL, ELECTRONIC AND CONTROL ENGINEERING		
5.	MAINTENANCE AND REPAIR		
6.	COMMUNICATION		
7.	HEALTH AND SAFETY, PASSENGER RIGHTS AND ENVIRONMENTAL PROTECTION		
8.	SAILING WITH THE AID OF RADAR		
9.	SAILING ON WATERWAYS WITH MARITIME CHARACTER		
10.	PASSENGER NAVIGATION EXPERT		
11.	LNG EXPERT		

15. DEBRIEFING SESSION/ COMMENTS:

Date:

Name of the boatmaster/training person:

Name of the training vessel:

**Signature of the boatmaster/training
person – approval of all TRB tasks:**

**Signature of the trainee after reading
final evaluation:**