

**Competency tables with EQF**  
**Report**  
***Final***



**IWTCOMP Project**  
**Intellectual Output 1**  
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## Abbreviations

EC	European Commission
EQF	European Qualifications Framework
EU	European Union
IWT	Inland waterway transport
IWTCOMP	Competency based inland waterway transport education and training
SR	Slovak Republic

# 1. Modernization and harmonization of professional qualifications in IWT

## 1.1 European process and stakeholders involved

Within the European project PLATINA (Platform for the implementation of Naiades), a 7th framework initiative by DG Move, one work package focused on "Jobs and Skills" and in particular on a strategy to harmonise IWT education and training. Following an Impact Assessment carried out by DG Move, stakeholders called for a more comprehensive approach towards the harmonisation of European IWT education and training. Lack of harmonisation in the IWT sector was one of the reasons to start this.

A formal network of IWT education and training institutes has been founded in February 2009 with the name "EDINNA" (Education in Inland Navigation). EDINNA is an association of 26 European IWT e&t institutes from 15 countries. The EDINNA association recognizes that all members use the same European waterway system and have a different background in various educational systems in Europe. It is the aim of EDINNA to come to a more structured cooperation. The working programme of EDINNA consists among others of:

- Harmonisation of European Inland Navigation Education and Training: Improve fragmented European IWT educational and training system by supporting stakeholders with identification of core professional competencies;
- Training equipment and simulators: Contribute to harmonized education and training by identifying the Status Quo of used simulators and other training equipment;
- Exchange programmes: Contribute to better understanding of different European IWT educational and training systems by exchanging students, teachers and learning materials;
- Communication and language: Identify needs and areas for a common language; Analyse existing materials and develop concepts how to better integrate language skills into IWT education and training.

EDINNA and PLATINA proposed to develop so called "Standards of Training and Certification in Inland Navigation" (STCIN) to start the process of harmonisation of education and training. The idea of STCIN is based on the maritime Standards for Training, Certification and Watchkeeping and give competencies for inland shipping on operational & management level. In the meantime, DG Move underlined the importance of a harmonised approach for inland navigation education and training, by installing a "Common Expert Group on Professional Qualifications and Training Standards in Inland Navigation" (CEG), consisting of Member States Administration, River Commissions, Social Partners and EDINNA.

In 2015 the CCNR (Central Commission of the Navigation of the Rhine) adopted a Resolution creating a European committee for drawing up common standards in the field of inland navigation (Comité Européen pour l'Élaboration de Standards dans le Domaine de Navigation Intérieure - CESNI). This Resolution promotes the development of uniform, modern, user-friendly requirements.

The purpose of the new committee is to bring together experts from the Member States of the European Union and the CCNR and representatives of international organisations with an interest in

inland navigation. The various stakeholders and professions in navigation in Europe will be well represented. The CESNI will be involved in drawing up standards for the technical requirements for inland navigation vessels and the demands made of crew members, and in the various implementing measures in the regulatory fields concerned. The regulatory frameworks of the European Union - new directives are currently been discussed - and of the CCNR - the Rhine Vessel Inspection Regulations and the Regulations for Rhine navigation personnel - will in future refer to the standards developed by the CESNI.

The previous work of EDINNA and all other stakeholders in the IWT branch and EU authorities resulted in a new EU Directive, replacing Directive 96/50. Aim of the new directive is the standardisation and harmonisation of the IWT training and education on Management Level and Operational Level.

## **1.2 European projects**

After the developing of STCIN, members of EDINNA took place in different European partnerships projects to further develop the idea behind STCIN. A framework for the course manuals is designed in a Leonardo da Vinci ToI project. This means that the first Course Manuals were designed to implement STCIN into practical education and training using the same format and content to guarantee the basic level of the subject of the course manual. This project provided a sound basis for the delivery of the mentioned training programmes in the framework of the STCIN. It also provided useful information to conduct the course subject and approaches in teaching content and techniques. The objectives of the format and example includes the planning and preparation of effective teaching and instruction, the selection of appropriate methods of instruction and teaching materials as well as the evaluation of the teaching and learning process.

Within another Leonardo da Vinci ToI project the Inland Navigation Simulator Train the Trainer course and courseware is developed. Training, assessing and examining by means of a simulator requires a specific didactical approach. In order to ensure that this is done the right way by all EDINNA members, the train the trainer course and courseware were developed.

Within the Erasmus+ funding, one KA2 project within the sector has already been executed. A course is developed consisting of general safety in Inland Shipping on (pre) vocational level. The following topics are being treated: cultural awareness, communication in English and competencies with respect to safety in Inland Shipping.

Doing European projects within the EDINNA network has the advantage that materials which will be developed during a project will be maintained by EDINNA after the end of the EU funding. With this system EDINNA will actively approach the EDINNA network, which consists of social partners, River Commissions, authorities and the industry to make sure the results will be maintained and hopefully integral part of the local or EU regulations. All EDINNA members meet regularly and within the network everyone knows when to use which member. This way every (European funded) project will be done with partners contributing to each other, learning from one and another and contributing to the specific European goals.

## **1.3 IWTCOMP project**

The Competency Based Inland Waterway Transport Education & Training (IWTCOMP) will prepare the inland navigation and training institutes in training and assessing with the competency based

approach. This is done within an Erasmus+ project with partners from Romania, Germany, Slovakia and the Netherlands

The project will focus on an EQF comparison between the different countries. All best practices related to competency based education within the participating institutions will be selected and to improve the use of these best practices and having more teachers involved in competency based learning and teaching a train-the-trainer course will be developed and executed.

Partners involved in the IWTCOMP project are:

- STC Group, Rotterdam, The Netherlands (Coordinator)
- CERONAV, Constanta, Romania
- Schiffer-Berufskolleg Rhein, Duisburg, Germany
- University of Zilina, Zilina, Slovakia
- Maritieme Academie Harlingen, Harlingen, The Netherlands
- University of Craiova, Craiova, Romania

## 2. The European Qualifications Framework

Nowadays, the European Union (EU) consists of 27 member states, and each state has got a different education system. Therefore the European Commission (EC) prepared the European Qualifications Framework (EQF) because it wanted to:

- make national qualifications more readable across Europe,
- harmonize national qualification systems of different countries to a common European reference framework,
- promote workers' and learners' mobility between the countries of the EU and to facilitate their lifelong learning.

The EQF system has got eight reference levels (figure 1), each level describes what a learner has to know, understand and be able to do<sup>1</sup>.

EQF LEVEL 8	ACADEMIC LEVEL	DOCTORATE	MAINTENANCE MANAGERS AND SUPERVISORS, VOCATIONAL TEACHERS	
EQF LEVEL 7		MASTER		
EQF LEVEL 6	POST UPPER SECONDARY LEVEL	BACHELOR		
EQF LEVEL 5		HIGHER NATIONAL DIPLOMA		MAINTENANCE TECHNICIANS
EQF LEVEL 4	UPPER SECONDARY LEVEL	HIGHER NATIONAL CERTIFICATE, UPPER SECONDARY DIPLOMA		MAINTENANCE MECHANICS
EQF LEVEL 3	SECONDARY LEVEL	SECONDARY DIPLOMA OR VOCATIONAL DIPLOMA		
EQF LEVEL 2	PRIMARY LEVEL	SECONDARY SCHOOL WITH NO DIPLOMA		
EQF LEVEL 1		PRIMARY SCHOOL		

**Figure 1** EQF levels compared with achieved education and maintenance personnel positions.

<sup>1</sup> <http://www.maintworld.com/R-D/Application-of-European-Qualification-Framework-EQF-in-Maintenance>, 1 December 2016

### 3. EQF and its application in the field of IWT

Inland waterway transport (IWT) plays a relevant role in the EU in cargo exchange. Especially in the international scale on the network of the European waterways. On one hand the transport is still more economical than any other mode of transport for many types of cargo, particularly such as bulk, general, liquid cargo and containers. On the other hand it is the friendliest mode to the environment.

The field of IWT includes various job positions that are related to its segments such as vessels, ports and waterways. In the project IWTCOMP we have focused on EQF and the job qualifications in IWT in 4 countries (Germany, the Netherlands, Romania and Slovakia) because each country uses a different education system. In the first step the partners did the research related to EQF and its application in the education system and job qualifications in the field of IWT. The partners answered five questions:

1. Do you have a national coordinator in your country that is responsible for EQF?
2. Has EQF been translated into a national qualification framework?
3. Are the IWT qualifications scaled in the national qualification framework?
4. Do you use the framework?
5. How is the education system for these IWT qualifications organized?

In all the countries involved in the project there are websites and organisations dedicated to the use of EQF in the national context. Below you will find an overview of these organisations.

**Table 1** overview of national organisations in the EQF context

Germany		<a href="http://www.dqr.de">www.dqr.de</a>
The Netherlands		<a href="http://www.nlqf.nl">www.nlqf.nl</a>
Romania		<a href="http://www.anc.edu.ro">www.anc.edu.ro</a>
Slovakia		<a href="http://www.trexima.sk/new">www.trexima.sk/new</a>



Regarding the international sectoral qualifications there is (still) not an agreement on the approach and international process of comparing the EQF levels via the National QF's (NQF's). Some member states do not want to adjust their procedures and this means all member states all still have their own NQF procedure. We need to take this into consideration within the project.

### **3.1 IWT qualifications**

In all the participating countries the European framework has been translated into a national qualification framework. Each project country has got its own national legislation on IWT qualifications. In Germany the chamber of commerce is involved in exams in the IWT field. In Romania the Romanian Naval Authority authorizes the IWT qualifications as in Slovakia the Ministry of Education, Science, Research and Sport is involved. In Germany and Slovakia the qualifications within the IWT sector are classified in the EQF and also in the DQF in Germany. For example a boatman certificate is classified on level 4 as a bachelor degree at the university of applied sciences is classified on level 6. Apart from that there will be another possible qualification in IWT in the future, which is the German "Meister". This qualification is not scaled in the framework yet, but in other fields a "Meister" is scaled on level 6. That qualification is also gained through a centralised exam held by the chamber of commerce and is an addition to the boatmaster's qualification, which is not scaled in the framework. It is therefore a qualification on the management level in the field of economics and business administration. At the opposite there are no IWT qualifications scaled in the framework of EQF in Romania. In the Netherlands the level of each vocational education programme is defined within the NLQF, but no qualifications are involved, only programmes as a whole.

### **3.2 Use of the framework**

The use of the framework is only done implicitly in Germany. The exams of the chamber of commerce are scaled in the frameworks and in the making of the curricula these exams are used. In the other countries the framework isn't used in the courses or curricula. All these countries have other national bodies that approves the curricula.

### **3.3 Educational system of IWT qualifications**

Slovakia used to have two vocational schools which prepared students for the job positions in IWT but they were closed because of low interest of young people to work in this field. Nowadays, the Transport Authority examines the candidates for lower job positions in IWT such as skipper, captains, boatmen (EQF 2 and 4). Before the exams it organises the courses for applicants. The exam has got oral and written forms and consists of various areas if IWT. The Department of Water Transport at the University of Zilina educates students for higher job positions (EQF 6, 7, 8) in IWT. The curriculums are approved by the Ministry of Education, Science, Research and Sport of the Slovak Republic and its control body (Accreditation Commission). They are prepared according to the requirements of practice and standards of higher education in Slovakia.

In Germany there is a combined system of education at school and in a shipping company ending in centralised exams held by the chamber of commerce. Both, schools and companies have to follow the curricula, but they are not responsible for the exams. The exams consist of two parts, one focussing on knowledge and one focussing on the skills. Therefore both, school and shipping company contribute to the education of the students enabling them to pass the centralised exams.

In Romania there are no dedicated programmes for IWT boatman, motorman and mechanics. There are vocational schools for boatmen in Galati and Orsova, offering courses for boatmen qualification.

In the Netherlands there are qualifications set for the different levels of education within the IWT sector. For each educational level there is a set of qualifications given by the national contact point in cooperation with the work field and educational institutes. The Netherlands government decided to place the Captain/Manager IWT qualification in NQF level 5 (EQF5), but in a later stage it was withdrawn and placed in NQF level 4 (EQF4).

## 4. Job qualifications in IWT and their description in the project countries

### 4.1 EQF levels

As described the IWTCOMP project will make a comparison of the different job qualifications used in the sector and the EQF levels in the different countries. Most of the job positions within the IWT in the project countries are classified from EQF level 2 to EQF 4. There are still slight differences in EQF levels for the same job position. Jobs like boatman and a boatmaster in Germany have EQF level 4, in other project countries these jobs have got a lower EQF level (a boatman – EQF level 2, a boatmaster 3). In Slovakia there are two job positions that are classified as EQF level 7 (a manager and a technical specialist in inland water transport). In some project countries there are some jobs that are not / do not exist in other project countries, e.g. a river boat pilot in Romania.

**Table 2** Overview of EQF levels used

Country		EQF 2	EQF 3	EQF 4	EQF 5	EQF 6	EQF 7
<i>Netherlands</i>	Apprentice	Boatman		Boatmaster			
		Able boatman		Captain/skipper			
		Helmsman					
<i>Romania</i>	Apprentice		Boatman	Captain level B			
	Expert in passenger transport		Able boatman	Captain level A			
	Safety advisor for the carriage of dangerous goods on inland waterways		River boat pilot				
	Radiotelephone operator in the radiotelephone		Engineer				

	y service on inland waterways						
	River engineer		Chief engineer				
			Helmsman				
<i>Slovakia</i>		Boatman	Able boatman	Dispatcher of inland shipping			Manager in inland waterway transport
			Ferryboot captain	Dispatcher of transshipment point of inland shipping			Technical specialist in inland waterway transport
			Machie operator of the 2 <sup>nd</sup> class	Boatmaster			
			Engineer	Steersman of barge			
				Ship's machine attendant			
<i>Germany</i>	Deckshand Apprentice			Boatman			“Geprüfter Binnenschiffahrtsmeister (IHK)/Geprüfte Binnenschiffahrtsmeisterin (IHK)” (Examined Inland waterway master (Chamber of Commerce))
				Engine minder			Dualer Studiengang “Schiffs- und Hafenbetrieb” (Dual* course of studies "Ship and port operations") at JADEHOCHSCHULE, Elsfleth, Germany

						* „dual“ means: studies in connection with an education at an vocational college as an inland skipper	
				Able boatman			
				Helmsman			
				Boatmaster			
				Engineer			

## 4.2 Legislation

Each project country has got its own **national legislation** (regulations, acts, decrees, ) that regulates job positions in IWT, see table 4.

**Table 3** Legislation that regulates job positions in the project countries

Country	legislation
Netherlands	<ul style="list-style-type: none"><li>- Regulation for Inland Waterway Transport, paragraph 2, competences for crewmembers, Article 2.9</li><li>- RSP, article 3.02, Paragraph 7</li></ul>
Germany	<ul style="list-style-type: none"><li>- Verordnung über das Schiffspersonal auf dem Rhein (Schiffspersonalverordnung-Rhein, RheinSchPersV), Regulations for Rhine Navigation Personnel (RPN)</li><li>- Binnenschiffer Patentverordnung (BinSchPatentV) (Regulations for Inland Waterways Certificates)</li></ul>
Romania	<ul style="list-style-type: none"><li>- Order of the Ministry of Transport, Constructions and Tourism no. 318 of 03/03/2006</li><li>- Law 159/2008</li></ul>
Slovakia	<ul style="list-style-type: none"><li>- ACT 338 of 22 September 2000 on Inland Navigation</li><li>- Ministry of Transport, Post and Telecommunication skills of the Slovak Republic Decree No. 12/2005</li></ul>

Practical training experience is influenced by the minimum age or experience in IWT (navigation time in inland navigation).

At the end we would like to say that in spite of the fact that all the project countries have already been members of the European Union and have harmonized their national legislation that regulate the requirements of job positions in IWT, we can still find the differences in these requirements. These differences have come from the different political development, juridical and education systems which the project countries have.

Therefore, we have decided to harmonize the minimum job requirements (general capabilities, professional knowledge and competencies) that regulate the most important job positions of crew members. These job positions are a boatman, a boatmaster and a captain / skipper.

## 4.3 Conclusions

EQF has already been translated into all national languages; each project country (partner) has got the institution that is responsible for the application of EQF on the national level.

Nowadays, none of the project partners use EQF in the field of inland water transport. This is due to the reason that these institutes have to focus on the professional competences based on national and international legislation. The curricula at schools, universities and training centres are prepared according to the international or national standards in the cooperation with the international or national authorities (the Rhine Commission, the Danube Commission, the Ministries of Education), shipping companies and other authorities that work in the field of IWT in the Rhine or Danube Regions. It depends on the level of general education (higher or lower) per country.

Although the EQF system has been accepted in all EU countries this system does not seem to be very appropriate for the comparison of the job qualifications in the European IWT sector. The job qualifications as described in the new EU directive seem to be a better basis for comparison. Also an alignment of the professional qualifications in IWT and the EQF could be a more appropriate solution. For example, see the ELAQF Qualification standards.

#### 4.4 Minimum job requirements for job qualifications

The basic goal of this subchapter is to propose **the minimum job requirements** (practical training experience, general capabilities, professional knowledge and competencies) for three job positions (a boatman, a boatmaster and a captain / skipper) in the field of IWT. The levels must be seen as a minimum of the **professional competences** needed for the specific function on board. On national level other requirements with respect to education level can be applicable.

**Table 4** Minimum job requirements for a boatman

Job position	Boatman
EQF level	2
Practical training experience	<ul style="list-style-type: none"> <li>• at least 17 years old (practical training experience as a member of deck crew) and</li> <li>• graduation from vocational / secondary school that is focused on IWT</li> <li>• at least 1 year in the field of IWT</li> </ul>
General capabilities	<ul style="list-style-type: none"> <li>• physical fitness</li> <li>• communication</li> <li>• manual dexterity</li> <li>• self-reliant</li> <li>• environmental and technical literacy</li> <li>• team work and management of people</li> <li>• personal development</li> <li>• able to cope with the stress situations and time pressure</li> <li>• performs maintenance and mechanical activities onboard</li> </ul>
Professional knowledge	<ul style="list-style-type: none"> <li>• the rules and procedures for loading, unloading and handling with transported cargo in ports</li> <li>• he / she performs maintenance and mechanical activities onboard</li> <li>• mooring / unmooring / anchoring of vessel</li> <li>• the regulations for the operation on water areas</li> <li>• the manners of management and operation of small vessels</li> <li>• the manners of operation of board, mooring and anchor devices of a vessel</li> <li>• the rules for safe operation of a vessel</li> <li>• the manners of operation of technical aids and tools in the process of operation of a vessel</li> <li>• knowledge of safety rules</li> </ul>

	<ul style="list-style-type: none"> <li>• the regulations which provide the issuing and interpretation of light and sound signals and monitoring of navigation lights during manoeuvring of a vessel</li> <li>• the manners of operation, maintenance and repair of mechanical equipment of vessels</li> </ul>
<b>Professional competencies</b>	<ul style="list-style-type: none"> <li>• servicing and maintenance of vessels</li> <li>• steering of the rescue boat</li> <li>• orientation in light and sound signalling in inland shipping</li> <li>• receiving and delivering of cargo that is transported by a vessel</li> <li>• mooring of vessels, preparation of anchors and tying of ropes on a vessel</li> <li>• use and operation of technical aids and tools during the operation of a vessel</li> <li>• management and operation of small vessels under the control of a captain</li> <li>• observance of rules of occupational safety and hygiene of labour</li> <li>• operation of board equipment and anchoring devices of an inland vessel of the middle class</li> </ul>

**Table 5** Minimum job requirements for a boatmaster

<b>job position</b>	<b>boatmaster</b>
<b>EQF level</b>	3
<b>Practical training experience</b>	<ul style="list-style-type: none"> <li>• graduation from vocational / secondary school that is focused on IWT</li> <li>• have passed another boatman's examination recognised by the competent authority</li> <li>• onboard experience at least 2 years</li> <li>• radar patent + basic certificate VHF</li> <li>• certificate about transport of dangerous goods by inland waterways</li> </ul>
<b>General capabilities</b>	<ul style="list-style-type: none"> <li>• physical fitness</li> <li>• communication</li> <li>• manual dexterity</li> <li>• self-reliant</li> <li>• technical literacy</li> <li>• team work</li> <li>• environmental literacy</li> <li>• organisation and planning of work</li> <li>• personal development</li> <li>• flexibility in thinking</li> <li>• decision making</li> <li>• management of people</li> </ul>



<b>Professional knowledge</b>	<ul style="list-style-type: none"> <li>• the manners of management and operation of small vessels</li> <li>• the regulations for the operation on water areas</li> <li>• the rules and procedures for loading, unloading and handling with transported cargo in ports</li> <li>• the principles of safety and protection of health during work and fire protection</li> <li>• the manners of operation of technical aids and tools in the process of operation of a vessel</li> <li>• the manners of operation of board, mooring and anchor equipment of a vessel</li> <li>• the rules for safe operation of a vessel</li> <li>• the manners of operation and maintenance of mechanical equipment of a vessel</li> <li>• standardized procedures within the activities of a crew member of a vessel</li> <li>• the regulations which provide the issuing and interpretation of light and sound signals and monitoring of navigation lights during manoeuvring of a vessel</li> </ul>
<b>Professional competencies</b>	<ul style="list-style-type: none"> <li>• servicing and maintenance of vessels</li> <li>• orientation in light and sound signalling in inland shipping</li> <li>• receiving and delivering of cargo that is transported by a vessel (including taking over and handing in unmanned vessels)</li> <li>• mooring of vessels, preparation of anchors and tying of ropes on a vessel</li> <li>• use and operation of technical aids and tools during the securing of transport supervision</li> <li>• management and operation of small vessels under the control of a captain</li> <li>• operation of board equipment and anchoring devices of an inland vessel of the middle class</li> <li>• observance of safety and protection of health during work and fire protection</li> <li>• keeping of the documentation about the operation of a vessel</li> <li>• replenishment of consumable board material</li> <li>• providing of the necessary assistance to transported persons (the providing of liquid, the provision of first aid if it is necessary)</li> </ul>

**Table 6** Minimum job requirements for a captain / skipper

<b>job position</b>	<b>captain / skipper</b>
<b>EQF level</b>	4
<b>Practical training experience</b>	<ul style="list-style-type: none"> <li>• qualified, that is to say possesses the necessary professional know-how and knowledge, including both nautical knowledge and a knowledge of the regulations and of the waterway. Qualification is proved by passing an examination set to establish this fact:</li> </ul>

	<ul style="list-style-type: none"> <li>• not less than 21 years of age (for the Rhine boatmaster's certificate Class 1 and Class 2)</li> <li>• limited radiotelephone certificate (VHF-Inland navigation radio (UBI), see RAINWAT)</li> <li>• onboard experience at least 4 years.</li> <li>• Irrespective of the type of boatmaster's certificate in question, specific sector knowledge is also required for defined sectors</li> <li>• radar patent + basic certificate VHF</li> <li>• certificate about transport of dangerous goods by inland waterways</li> </ul>
<b>General capabilities</b>	<ul style="list-style-type: none"> <li>• analysis and solving of the problems</li> <li>• decision making</li> <li>• self-reliant</li> <li>• leading of people</li> <li>• environmental literacy</li> <li>• physical fitness</li> <li>• information literacy</li> <li>• communication skills</li> <li>• communication in a foreign language</li> <li>• sophisticated writing skills</li> <li>• sophisticated word speech</li> <li>• organisation and planning of work</li> <li>• personal development</li> <li>• flexibility in thinking</li> <li>• technical literacy</li> <li>• team work</li> <li>• digital literacy (computer competences)</li> <li>• financial literacy</li> </ul>
<b>Professional knowledge</b>	<ul style="list-style-type: none"> <li>• the rules / regulations of navigation on the European waterways (the Rhine, the Danube, ...)</li> <li>• characteristic of inland waterway from geographical, hydrological, meteorological and morphological points of view</li> <li>• steering / anchoring / mooring of a vessel during different weather conditions</li> <li>• the role and functioning of the rudder and propeller</li> <li>• the rules and procedures for loading, unloading and handling with cargoes in ports</li> <li>• observance of safety and protection of health during work and fire protection</li> <li>• methods and principles of shipbuilding, ship equipment and devices</li> <li>• technology of ship's repair and shipping technique</li> <li>• the manners of operation of technical aids and tools in the process of operation of a vessel</li> <li>• the manners of conducting of a vessel on the waterway</li> </ul>

	<ul style="list-style-type: none"> <li>• the manners of operation of board, mooring and anchor equipment of a vessel</li> <li>• rules of safe operation of a vessel</li> <li>• standardized procedures within the activities of a crew member of a vessel</li> <li>• the regulations which provide the issuing and interpretation of light and sound signals and monitoring of navigation lights during manoeuvring of a vessel</li> </ul>
<b>Professional competencies</b>	<ul style="list-style-type: none"> <li>• orientation in the standards and technical documentations of a vessel</li> <li>• control of safety of crew members and passengers onboard</li> <li>• manoeuvring / steering and operation of a small vessel</li> <li>• management and control of labour of crew members</li> <li>• leading of the documentation about operation of a vessel</li> <li>• steering of a vessel with its own propulsion</li> <li>• operation of board equipment and anchoring devices of an inland vessel of the higher class</li> <li>• use and operation of technical aids and tools during the securing of transport supervision</li> <li>• orientation in light and sound signalling in inland shipping</li> <li>• control of readiness of a vessel for inland navigation, passenger safety, transported cargoes, safety and fire equipment</li> <li>• orientation in the documents of cargoes that are transported by inland shipping</li> <li>• observance of safety and protection of health during work and fire protection</li> </ul>

#### 4.5 Suggestions for other sectors

For other organisations that want to start harmonisation within their own sector the following aspects can be helpful:

- The beginning should be small. Search for a couple of partners and try to start with them. The bigger the group, the more difficult it will be to come to agreements and work plans.
- The need to do something should be felt by all stakeholders on European level. Try to get as many of them involved.
- There should be involvement of European stakeholders, for example a DG, a branch organisation or a commission. This way it will be easier to implement and influence European rules and regulations.
- Use (European) funded projects to develop materials and to try them. Within these projects you can learn a lot.
- Make use of materials already developed by other organisations, other funded projects etc.
- When using EQF make sure everyone has the basic knowledge on the subject. You can make use of one of the national EQF agencies.
- When using the EQF realise that it is possibly not the most appropriate system to compare the professional competences.

## Annexes

Annex 1: Job Positions in The Netherlands

Annex 2: Job Positions in Romania

Annex 3: Job Positions in Slovakia

Annex 4: Job Positions in Germany

## Annex 1: Job positions in the Netherlands

job position	Apprentice
EQF level	VET
Regulated permission	<ul style="list-style-type: none"> <li>Regulation for Inland Waterway Transport, paragraph 2, competences for crewmembers, Article 2.9</li> <li>RSP, article 3.02, paragraph 3</li> </ul>
Practical training experience	<p>Binnenvaartregeling</p> <ul style="list-style-type: none"> <li>At least 15 years of age and</li> <li>In possession of a learning agreement providing following a course aspiring boatmaster Scheepvaart en Transport College in Rotterdam, the Noorderpoortcollege in Groningen or the ROC NOVA college in Haarlem, or a by the authority acknowledged course that educates towards an equivalent diploma.</li> </ul> <p>RSP</p> <ul style="list-style-type: none"> <li>At least 15 years of age and in possession of a written proof of enrolment at a vocational education boatsman or by the authority recognized written course that leads to an equivalent diploma.</li> </ul>
General capabilities	<ul style="list-style-type: none"> <li></li> </ul>
Professional knowledge	<ul style="list-style-type: none"> <li></li> </ul>
<b>Professional competencies</b>	<ul style="list-style-type: none"> <li></li> </ul>

job position	Boatman
EQF level	2
Regulated permission	<ul style="list-style-type: none"> <li>Regulation for Inland Waterway Transport, paragraph 2, competences for crewmembers, Article 2.9</li> <li>RSP, article 3.02, paragraph 3</li> </ul>
Practical training experience	<ul style="list-style-type: none"> <li>At least 17 years old and: <ul style="list-style-type: none"> <li>1. Diploma boatman IWT CREBO 10652, 91880 tot en met 91882 en 95620,</li> <li>2. Diploma captain or boatmaster IWT CREBO 10650, 25511, 93110, 95640, 10651, 25510, 91900, 95630, 10653, 25512 en 93030,</li> <li>3. Diploma lower vocational training Rhine, Inland and coastal navigation issued by Scheepvaart en Transport College te Rotterdam, het Maritiem College Velsen te IJmuiden, de Maritieme Academie Harlingen te Harlingen of het Mondial College te Nijmegen</li> <li>4. Recognition vocational qualifications as stated in <a href="#">Algemene wet erkenning EU-beroepskwalificaties</a>;</li> </ul> </li> <li>or</li> <li>At least 19 years old</li> </ul>

	<ul style="list-style-type: none"> <li>○ 3 years practical training experience as member of deck crew, of whereof at least one year in IWT and two years in IWT, seafaring, coastal faring of fishing.</li> <li>○ In possession of declaration practical exam Sailor, to proof the practical exam from the CBR is successfully completed.</li> <li>○ In possession of <ul style="list-style-type: none"> <li>▪ Diploma aspiring boatsmaster issued by CBR.</li> <li>▪ A statement of the CBR for successfully completing practical exam 1 of the Practical exam Boatmaster referred to in article 7.19a; and</li> <li>▪ Proof of at least 60 sailing days</li> </ul> </li> </ul> <p>RSP</p> <ul style="list-style-type: none"> <li>• at least 17 years of age and <ul style="list-style-type: none"> <li>○ a successfully completed education as referred to in the second paragraph of</li> <li>○ a successfully completed final examinations vocational school for boatman, or</li> <li>○ a successfully completed exam, accredited by the authority</li> <li>○ a professional sailor referred to in the administrative agreement on cooperation for the mutual recognition of professional sailor obtained through school education;</li> </ul> </li> </ul> <p>or</p> <ul style="list-style-type: none"> <li>• at least 19 years of age and practical training experience as a member of the deck crew, whereof at least one year in IWT and two years in IWT, seafaring, coastal faring or fishing</li> </ul>
General capabilities	<ul style="list-style-type: none"> <li>• Strives for indecency and quality of work</li> <li>• Accurate</li> <li>• Able to cope with stress/time pressure</li> <li>• Solution oriented</li> <li>• Communication</li> <li>• Integrity and discreet</li> <li>• Positive</li> <li>• Flexible towards other crewmembers</li> <li>• Able to swim conform swimming certificate A</li> <li>• Able to watch their own physical and mental boundaries</li> <li>• Mooring/unmooring of vessels</li> <li>• Anchoring the vessel</li> <li>• Sailing under supervision</li> <li>• Provides instructions from bow or stern</li> <li>• Makes the ship ready to sail</li> <li>• Prepares the ship for un/loading)</li> <li>• Is able to (un)load the vessel</li> <li>• performs maintenance and mechanical activities onboard</li> <li>• Stays and works onboard</li> </ul>

	<ul style="list-style-type: none"> <li>• Responds and acts in case of calamity</li> <li>• Takes care of the household</li> </ul>
Professional knowledge	<ul style="list-style-type: none"> <li>• Has basic knowledge of the relevant nautical laws and regulations</li> <li>• Has basic knowledge of topography and routes in Western Europe.</li> <li>• Has basic knowledge of Health and Safety laws and regulations.</li> <li>• Has basic knowledge of cargo characteristics</li> </ul>
<b>Professional competencies</b>	<ul style="list-style-type: none"> <li>• Is able to steer the rescue boat</li> <li>• Is able to apply the correct technique for (un)mooring</li> <li>• Is able to use different communication equipment</li> <li>• Is able to use and understand jargon</li> <li>• Is able to use nautical hand signals</li> <li>• Is able to use hydrographic and electronic aids</li> <li>• Is able to use (personal) safety and rescue equipment</li> <li>• Is able to use equipment and accessories (amongst other for (un)loading)</li> <li>• Is able to handle and fill in checklists</li> <li>• Is able to explain and emergency plan</li> <li>• Is able to apply safety regulations</li> <li>• Is able to show the propulsion and navigational possibilities</li> <li>• Is able to use anchoring methods</li> <li>• Is able to use firefighting techniques</li> <li>• Is able to apply optical signals</li> <li>• Estimates distances well</li> <li>• Is able to conduct a simple conversation in English and German with personnel about (un)loading the vessel</li> <li>• Is understandable during (un)loading is simple English</li> <li>• Prepares a meal</li> <li>• Is able to use automation systems for ship administration</li> <li>• Uses painting- and cleaning means and methods</li> <li>• Handles techniques for maintenance</li> <li>• Explains technical systems</li> <li>• Operates household appliance</li> <li>• Operates lifting equipment</li> <li>• Works hygienically</li> <li>• Is able to explain a stability plan</li> </ul>

<b>job position</b>	<b>Able boatman</b>
EQF level	2

Regulated permission	<ul style="list-style-type: none"> <li>• Regulation for Inland Waterway Transport, paragraph 2, competences for crewmembers, Article 2.9</li> <li>• RSP, article 3.02, paragraph 5</li> </ul>
Practical training experience	<p>Binnenvaartregeling</p> <ul style="list-style-type: none"> <li>• An able boatman meets the requirements of a boatman, including one year practical experience as a boatman.</li> </ul> <p>RSP</p> <ul style="list-style-type: none"> <li>• at least one year as a boatman in IWT and <ul style="list-style-type: none"> <li>○ a successfully completed education as mentioned in second paragraph</li> <li>○ a successfully completed final examinations vocational school for boatmasters, or</li> <li>○ a successfully completed exam, accredited by the authority</li> <li>○ a professional boatman as defined in the administrative agreement on cooperation for the mutual recognition of school education through professional qualifications.</li> </ul> </li> </ul> <p>or</p> <ul style="list-style-type: none"> <li>• a successfully completed three year training as referred to in the second paragraph or a successfully completed final exam after an education of at least three years, if the education includes one year of sailing days in IWT.</li> </ul> <p>or</p> <ul style="list-style-type: none"> <li>• at least one year as boatman, as referred to in paragraph 3, subsection b and a successful practical exam as referred to in appendix D7, part 3.1</li> </ul> <p>or</p> <ul style="list-style-type: none"> <li>• two years as boatman, as referred to in paragraph 3, subsection b.</li> </ul>
General capabilities	<ul style="list-style-type: none"> <li>•</li> </ul>
Professional knowledge	<ul style="list-style-type: none"> <li>•</li> </ul>
<b>Professional competencies</b>	<ul style="list-style-type: none"> <li>•</li> </ul>

<b>job position</b>	<b>Helmsman</b>
EQF level	2
Regulated permission	<ul style="list-style-type: none"> <li>• Regulation for Inland Waterway Transport, paragraph 2, competences for crewmembers, Article 2.9</li> <li>• RSP, article 3.02, paragraph 6</li> </ul>



Practical training experience	<p>Binnenvaartregeling:</p> <ul style="list-style-type: none"> <li>• Owns a restricted Sailing license or meets the requirements of boatman, and</li> <li>• at least 2 years in the function of boatman. (article 2.9)</li> </ul> <p>RSP</p> <ul style="list-style-type: none"> <li>• at least one year as able boatman or at least three years as boatman</li> </ul> <p>or</p> <ul style="list-style-type: none"> <li>• in possession of sailing license according to <a href="#">Richtlijn 96/50/EG</a>, or sailing license according to appendix I <a href="#">Richtlijn 91/672/EEG</a>;</li> </ul> <p>of</p> <ul style="list-style-type: none"> <li>• at least 4 years and in possession of big patent or comparable.</li> </ul>
General capabilities	•
Professional knowledge	•
<b>Professional competencies</b>	•

<b>job position</b>	<b>Boatmaster</b>
EQF level	4
Regulated permission	<ul style="list-style-type: none"> <li>• Regulation for Inland Waterway Transport, paragraph 2, competences for crewmembers, Article 2.9</li> <li>• RSP, article 3.02, paragraph 7</li> </ul>
Practical training experience	<ul style="list-style-type: none"> <li>• At least 4 years to require sailing license issued under supervision of Ministry of Infrastructure and Environment.</li> <li>• Radar patent RSP, article 6.03</li> <li>• Basic certificate VHF (Binnenvaartpolitierglement (BPR) artikel 4.05, vierde lid)</li> <li>• Certificate Transport of dangerous goods by Inland Waterways ) (ADN)</li> </ul>
General capabilities	<ul style="list-style-type: none"> <li>• Strives for independency and quality of work</li> <li>• Accurate</li> <li>• Able to cope with stress/time pressure</li> <li>• Solution oriented</li> <li>• Communication</li> <li>• Integrity and discreet</li> <li>• Positive</li> <li>• Flexible towards other crewmembers</li> </ul>

	<ul style="list-style-type: none"> <li>• Able to swim conform swimming certificate A</li> <li>• Able to watch their own physical and mental boundaries</li> <li>• Gives leadership and functions as an example for the crew</li> <li>• Takes responsibility and is capable and is daring to take difficult decisions</li> <li>• Mooring/unmooring of vessels</li> <li>• Anchoring the vessel</li> <li>• Sailing under supervision</li> <li>• Provides instructions from bow or stern</li> <li>• Makes the ship ready to sail</li> <li>• Prepares the ship for un/loading)</li> <li>• Is able to (un)load the vessel</li> <li>• performs maintenance and mechanical activities onboard</li> <li>• Stays and works onboard</li> <li>• Responds and acts in case of calamity</li> <li>• Takes care of the household</li> <li>• Navigate on European inland waterways</li> <li>• Plans loading and unloading</li> <li>• Plans general mechanical maintenance and repair</li> <li>• Takes care of the ships administration</li> <li>• Takes care of the cargo-administration</li> <li>• Monitors supplies and orders goods and services.</li> <li>• Distributes work among crewmembers</li> <li>• Instructs crew on safety and changing laws and regulations</li> <li>• Guides crewmembers</li> </ul>
Professional knowledge	<ul style="list-style-type: none"> <li>• Has knowledge of the relevant nautical laws and regulations</li> <li>• Has knowledge of topography and routes in Western Europe.</li> <li>• Has knowledge of Health and Safety laws and regulations.</li> <li>• Has knowledge of cargo characteristics</li> <li>• Knows how to operate the radar and regulations regarding the radar</li> <li>• Has knowledge of (personal) safety and rescue equipment</li> <li>• Has knowledge of techniques for mechanical maintenance</li> <li>• Has knowledge of techniques for general maintenance</li> <li>• Knows ordering procedures</li> </ul>
<b>Professional competencies</b>	<ul style="list-style-type: none"> <li>• Is able to steer the rescue boat</li> <li>• Is able to apply the correct technique for (un)mooring and to (dis)connect push/barge combinations</li> <li>• Is able to use different communication equipment</li> <li>• Is able to use and understand jargon</li> <li>• Is able to use nautical hand signals</li> <li>• Is able to use hydro graphic and electronic aids</li> <li>• Is able to use (personal) safety and rescue equipment</li> <li>• Is able to use equipment and accessories (amongst other for (un)loading)</li> </ul>

	<ul style="list-style-type: none"> <li>• Is able to handle and fill in checklists</li> <li>• Is able to explain and emergency plan</li> <li>• Is able to apply safety regulations</li> <li>• Is able to show the propulsion and navigational possibilities</li> <li>• Is able to use anchoring methods</li> <li>• Is able to use fire fighting techniques</li> <li>• Is able to apply optical signals</li> <li>• Estimates distances well</li> <li>• Is able to conduct a simple conversation in English and German with personnel about (un)loading the vessel</li> <li>• Is understandable during (un)loading is simple English</li> <li>• Prepares a meal</li> <li>• Is able to use automation systems for ship administration</li> <li>• Uses painting- and cleaning means and methods</li> <li>• Handles techniques for maintenance</li> <li>• Explains technical systems</li> <li>• Operates household appliance</li> <li>• Operates lifting equipment</li> <li>• Works hygienically</li> <li>• Is able to explain a stability plan</li> <li>• Applies the regulations of the VHF certificate</li> <li>• Explains nautical circumstances</li> <li>• Explains technical systems</li> <li>• Is, for the purpose of maritime communication, able to listen and have an conversation in English and German</li> <li>• Is able to, for the purpose of (un)loading the vessel, practise English and German language skills</li> <li>• Is able to use automation systems for cargo administration</li> <li>• Is able to use automation systems for supply administration</li> <li>• Reads cargo papers</li> <li>• Delegates activities</li> <li>• Gives instructions</li> </ul>
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<b>job position</b>	<b>Captain/skipper</b>
EQF level	4(5)
Regulated permission	<ul style="list-style-type: none"> <li>• Regulation for Inland Waterway Transport, paragraph 2, competences for crewmembers, Article 2.9</li> <li>• RSP, article 3.02, Paragraph 7</li> </ul>
Practical training experience	<ul style="list-style-type: none"> <li>• At least 4 years to require sailing license issued under supervision of Ministry of Infrastructure and Environment.</li> <li>• Radar patent (RSP, article 6.03) (mandatory for education) Basic certificate VHF (Binnenvaartpolitierglement (BPR) article 4.05, Paragraph 4)</li> <li>• Diploma entrepreneur IWT (Binnenvaartregeling, Article 2.2)</li> </ul>

	<ul style="list-style-type: none"> <li>• Certificate Transport of dangerous goods by Inland Waterways ) (ADN)</li> </ul>
General capabilities	<ul style="list-style-type: none"> <li>• Strives for independency and quality of work</li> <li>• Accurate</li> <li>• Able to cope with stress/time pressure</li> <li>• Solution oriented</li> <li>• Communication</li> <li>• Integrity and discreet</li> <li>• Positive</li> <li>• Flexible towards other crewmembers</li> <li>• Able to swim conform swimming certificate A</li> <li>• Able to watch their own physical and mental boundaries</li> <li>• Has great responsibility, is capable and is daring to take difficult decisions</li> <li>• Is an entrepreneur, has leadership and helicopter view</li> <li>• Example for the crew</li> <li>• Is aware of Inland waterway transport and the role within the logistic chain with growing innovative transport systems.</li> <li>• Is aware of possibilities of cooperating with different modalities to promote the modal shift towards IWT.</li> <li>• Mooring/unmooring of vessels</li> <li>• Anchoring the vessel</li> <li>• Sailing the vessel</li> <li>• Provides instructions from bow or stern</li> <li>• Makes the ship ready to sail</li> <li>• Prepares the ship for un/loading)</li> <li>• Is able to (un)load the vessel</li> <li>• performs maintenance and mechanical activities onboard</li> <li>• Stays and works onboard</li> <li>• Responds and acts in case of calamity</li> <li>• Takes care of the household</li> <li>• Navigate on European inland waterways</li> <li>• Plans loading and unloading</li> <li>• Plans general mechanical maintenance and repair.</li> <li>• Takes care of the ships administration</li> <li>• Takes care of the cargo-administration</li> <li>• Monitors supplies and orders goods and services.</li> <li>• Selects suppliers</li> <li>• Distributes task among crewmembers.</li> <li>• Leads crewmembers and third parties</li> <li>• Motivate and control the correct use of (personal) safety equipment by crewmembers</li> <li>• Carries out performance and assessment interviews</li> <li>• take the lead in organizing team meetings</li> <li>• recruits and selects crew</li> </ul>

	<ul style="list-style-type: none"> <li>• Develops a business plan</li> <li>• Acquires transport orders</li> <li>• Sets prices for services</li> <li>• Carries out management</li> <li>• Promotes the company</li> <li>• Maintains external contacts</li> <li>• Takes care of financial administration and registration</li> <li>• Innovates the company</li> </ul>
Professional knowledge	<ul style="list-style-type: none"> <li>• Has broad knowledge of the relevant nautical laws and regulations</li> <li>• Has knowledge of topography and routes in Western Europe.</li> <li>• Has broad knowledge of Health and Safety laws and regulations.</li> <li>• Has knowledge of cargo characteristics</li> <li>• Knows how to operate the radar and regulations regarding the radar</li> <li>• Has knowledge of (personal) safety and rescue equipment</li> <li>• Has knowledge of techniques for mechanical maintenance</li> <li>• Has knowledge of techniques for general maintenance</li> <li>• Has specialist knowledge of order procedures</li> <li>• Has broad knowledge of the system for performance and assessment interviews</li> <li>• Has knowledge of social and tax authorities</li> <li>• Has knowledge of social insurances</li> <li>• Has broad knowledge of the collective agreements</li> <li>• Has broad knowledge of the logistic marketing tools</li> <li>• Has broad knowledge of the possibilities for financing the company</li> <li>• Has broad knowledge of the market in Inland Waterway Transport</li> <li>• Has broad knowledge of collaborations within the Inland Waterway Transport</li> </ul>
<b>Professional competencies</b>	<ul style="list-style-type: none"> <li>• Is able to steer the rescue boat</li> <li>• Is able to apply the correct technique for (un)mooring and to (dis)connect push/barge combinations</li> <li>• Is able to use different communication equipment</li> <li>• Is able to use and understand jargon</li> <li>• Is able to use nautical hand signals</li> <li>• Is able to use hydro graphic and electronic aids</li> <li>• Is able to use (personal) safety and rescue equipment</li> <li>• Is able to use equipment and accessories (amongst other for (un)loading)</li> <li>• Is able to handle and fill in checklists</li> <li>• Is able to explain the emergency plan</li> <li>• Is able to apply safety regulations</li> <li>• Is able to show the propulsion and navigational possibilities</li> <li>• Is able to use anchoring methods</li> <li>• Is able to use fire fighting techniques</li> <li>• Is able to apply optical signals</li> </ul>

	<ul style="list-style-type: none"> <li>• Estimates distances well</li> <li>• Is able to listen and talk in German and English</li> <li>• Is able to communicate in English and German regarding (un)loading.</li> <li>• Prepares a meal</li> <li>• Is able to use automation systems for ship administration</li> <li>• Uses painting- and cleaning means and methods</li> <li>• Handles techniques for maintenance</li> <li>• Explains technical systems</li> <li>• Operates household appliance</li> <li>• Operates lifting equipment</li> <li>• Works hygienically</li> <li>• Is able to explain a stability plan</li> <li>• Applies the regulations of the VHF certificate</li> <li>• Explains nautical circumstances</li> <li>• Explains technical systems</li> <li>• Is able to use automation systems for cargo administration</li> <li>• Is able to use automation systems for supply administration</li> <li>• Reads cargo papers</li> <li>• Delegates activities</li> <li>• Gives instructions</li> <li>• Negotiates about price and content of the transport contract</li> <li>• Keeps financial records</li> <li>• Uses English and German for the acquisition of transport contract, promotion of the company and maintenance of external contacts.</li> <li>• Explains/applies application procedure.</li> <li>• Composes employment contract</li> <li>• Is able to write an conversation report</li> <li>• Is able to have and recruitment conversation</li> <li>• Negotiates the purchase price of goods/services</li> <li>• Swims at Swimming certificate A</li> </ul>
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Reference:

[http://wetten.overheid.nl/BWBR0025958/2016-12-20#Hoofdstuk2\\_Paragraaf2](http://wetten.overheid.nl/BWBR0025958/2016-12-20#Hoofdstuk2_Paragraaf2), 25 January 2017

[http://wetten.overheid.nl/BWBR0030215/2016-12-20#HoofdstukII\\_Titeldeel3](http://wetten.overheid.nl/BWBR0030215/2016-12-20#HoofdstukII_Titeldeel3), 30 January 2017

Kwalificatiedossier Binnenvaart, Crebonr. 23211, valid 01-08-2016

## Annex 2: Job positions in Romania

job position	Apprentice
EQF level	Secondary school
Regulated permission	<ul style="list-style-type: none"> <li>• <b>Order of the Ministry of Transport, Constructions and Tourism no. 318 of 03/03/2006</b> regarding the approval of the training standards, competence confirmation and issue of competence certificates to the sailing staff for inland waterways ships flying the Romanian flag as amended by Order of the Minister of Transport, Constructions and Tourism no. 509 of 06/20/2007 and Order no. 921 of 20/09/2007</li> </ul>
Practical training experience	<ul style="list-style-type: none"> <li>• -</li> </ul>
General capabilities	<ul style="list-style-type: none"> <li>• physical fitness and psychical skills (keenness of sight and hearing, the skill of distinguishing colours, motility of upper and lower limbs, excellent neuropsychiatric and vascular condition)</li> <li>• manual dexterity</li> <li>• self-reliant</li> <li>• environmental literacy</li> <li>• communication</li> <li>• personal development</li> <li>• technical literacy</li> </ul>
Professional knowledge	<ul style="list-style-type: none"> <li>• not required</li> </ul>
<b>Professional competencies</b>	<ul style="list-style-type: none"> <li>• not required</li> </ul>

job position	Boatman
EQF level	3
Regulated permission	<ul style="list-style-type: none"> <li>• <b>Order of the Ministry of Transport, Constructions and Tourism no. 318 of 03/03/2006</b> regarding the approval of the training standards, competence confirmation and issue of competence certificates to the sailing staff for inland waterways ships flying the Romanian flag as amended by Order of the Minister of Transport, Constructions and Tourism no. 509 of 06/20/2007 and Order no. 921 of 20/09/2007</li> </ul>
Practical training experience	<ul style="list-style-type: none"> <li>• at least 1 year experience as boatman apprentice, or</li> <li>• graduate of marine vocational or secondary school profile + 2 months onboard experience, or</li> <li>• boatman apprentice with graduate of boatman training course + 2 months onboard experience, or</li> <li>• university graduate military naval profile/petty officer with diploma + 2 months onboard experience, or</li> <li>• college graduate navigation profile without diploma + 2 months onboard experience, or</li> <li>• university III year graduate civil/military naval navigation profile + 2 months onboard experience,</li> </ul>

	<ul style="list-style-type: none"> <li>• Be at least 17 years of age and have navigation time of not less than 90 days as part of the approved training programme or</li> <li>• Be at least 19 years of age and prove three years of professional experience, of which at least one year in inland navigation and either two years in inland navigation or maritime</li> </ul>
General capabilities	<ul style="list-style-type: none"> <li>• physical fitness and psychical skills (keenness of sight and hearing, the skill of distinguishing colours, motility of upper and lower limbs, excellent neuropsychiatric and vascular condition)</li> <li>• communication</li> <li>• manual dexterity</li> <li>• self-reliant</li> <li>• technical literacy</li> <li>• team work</li> <li>• environmental literacy</li> <li>• organisation and planning of work</li> <li>• personal development</li> <li>• flexibility in thinking</li> <li>• decision making</li> <li>• management of people</li> </ul>
Professional knowledge	<ul style="list-style-type: none"> <li>• the manners of management and operation of small vessels</li> <li>• the regulations for the operation on water areas</li> <li>• the rules and procedures for loading, unloading and handling of cargo in ports</li> <li>• the principles of safety and protection of health during work and fire protection</li> <li>• the manners of operation technical aids and tools in the process of operation a vessel</li> <li>• the manners of operation of board, mooring and anchor equipment of a vessel</li> <li>• the rules for safe operation of a vessel</li> <li>• the manners of operation and maintenance of mechanical equipment of a vessel</li> <li>• standardized procedures within the activities of a crew member of a vessel</li> <li>• the regulations which provide the issuing and interpretation of light and sound signals and monitoring of navigation lights during manoeuvring of a vessel</li> <li>• fundamental rules to prevent accidents</li> <li>• measures in the event of damage, collision and running aground, including water holes</li> <li>• use of tools and materials for rescue operations</li> <li>• first aid in case of accident</li> <li>• knowledge regarding fire prevention and firefighting systems</li> <li>• pollution prevention of inland waterways</li> </ul>



	<ul style="list-style-type: none"> <li>• Specific rules for rescue persons, vessel and cargo on inland waterways and sea survival</li> </ul>
<b>Professional competencies</b>	<ul style="list-style-type: none"> <li>• servicing and maintenance of vessels</li> <li>• orientation in light and sound signalling in inland shipping</li> <li>• receiving and delivering of cargo that is transported by a vessel (including taking over and handing in unmanned vessels)</li> <li>• mooring of vessels, preparation of anchors and tying of ropes on a vessel</li> <li>• use and operation of technical aids and tools during the securing of transport supervision</li> <li>• management and operation of small vessels under the control of a captain</li> <li>• operation of board equipment and anchoring devices of an inland vessel of the middle class</li> <li>• observance of safety and protection of health during work and fire protection</li> <li>• keeping of the documentation about the operation of a vessel</li> <li>• replenishment of consumable board material</li> <li>• providing of the necessary assistance to transported persons (the providing of liquid, the provision of first aid if it is necessary)</li> </ul>

<b>job position</b>	<b>Able boatman</b>
EQF level	3
Regulated permission	<ul style="list-style-type: none"> <li>• <b>Order of the Ministry of Transport, Constructions and Tourism no. 318 of 03/03/2006</b> regarding the approval of the training standards, competence confirmation and issue of competence certificates to the sailing staff for inland waterways ships flying the Romanian flag as amended by Order of the Minister of Transport, Constructions and Tourism no. 509 of 06/20/2007 and Order no. 921 of 20/09/2007</li> </ul>
Practical training experience	<ul style="list-style-type: none"> <li>• University/College graduate military naval profile/petty officer with diploma + 2 years onboard experience in deck department on military inland ships</li> <li>• University/College graduate civil navigation profile with diploma + 6 months onboard experience</li> </ul>
General capabilities	<ul style="list-style-type: none"> <li>• physical fitness and psychical skills (keenness of sight and hearing, the skill of distinguishing colours, motility of upper and lower limbs, excellent neuropsychiatric and vascular condition)</li> <li>• communication</li> <li>• manual dexterity</li> <li>• self-reliant</li> <li>• technical literacy</li> <li>• team work</li> <li>• environmental literacy</li> <li>• organisation and planning of work</li> <li>• personal development</li> </ul>

	<ul style="list-style-type: none"> <li>• flexibility in thinking</li> <li>• decision making</li> <li>• management of people</li> </ul>
Professional knowledge	<ul style="list-style-type: none"> <li>• the manners of management and operation of small vessels</li> <li>• the regulations for the operation on water areas</li> <li>• the rules and procedures for loading, unloading and handling of cargo in ports</li> <li>• the principles of safety and protection of health during work and fire protection</li> <li>• the manners of operation technical aids and tools in the process of operation of a vessel</li> <li>• the manners of operation of board, mooring and anchor equipment of a vessel</li> <li>• the rules for safe operation of a vessel</li> <li>• the manners of operation, maintenance of mechanical equipment of a vessel</li> <li>• standardized procedures within the activities of a crew member of a vessel</li> <li>• the regulations which provide the issuing and interpretation of light and sound signals and monitoring of navigation lights during manoeuvring a vessel</li> <li>• fundamental rules to prevent accidents</li> <li>• measures in the event of damage, collision and running aground, including water holes</li> <li>• use of tools and materials for rescue operations</li> <li>• first aid in case of accident</li> <li>• knowledge regarding fire prevention and firefighting systems</li> <li>• pollution prevention of inland waterways</li> <li>• Specific rules for rescue persons, vessel and cargo on inland waterways and sea survival</li> </ul>
<b>Professional competencies</b>	<ul style="list-style-type: none"> <li>• servicing and maintenance of vessels</li> <li>• orientation in light and sound signalling in inland shipping</li> <li>• receiving and delivering of cargo that is transported by a vessel (including taking over and handing in unmanned vessels)</li> <li>• mooring of vessels, preparation of anchors and ropes on a vessel</li> <li>• use and operation of technical aids and tools during securing of transport supervision</li> <li>• management and operation of small vessels under the control of a captain</li> <li>• operation of board equipment and anchoring devices of a middle class inland vessel</li> <li>• observance of safety and protection of health during work and fire protection</li> <li>• keeping the documentation on a vessel operation</li> <li>• replenishment of consumable materials onboard</li> </ul>

	<ul style="list-style-type: none"> <li>providing the necessary assistance to transported persons (the provision of liquid, first aid if necessary)</li> </ul>
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job position	River boat pilot
EQF level	3
Regulated permission	<ul style="list-style-type: none"> <li><b>Order of the Ministry of Transport, Constructions and Tourism no. 318 of 03/03/2006</b> regarding the approval of the training standards, competence confirmation and issue of competence certificates to the sailing staff for inland waterways ships flying the Romanian flag as amended by Order of the Minister of Transport, Constructions and Tourism no. 509 of 06/20/2007 and Order no. 921 of 20/09/2007</li> </ul>
Practical training experience	<ul style="list-style-type: none"> <li>Naval petty officer, navigation profile + 2 years onboard experience in deck department on military naval inland ships, or</li> <li>University/College graduate military naval profile, navigation specialty + 2 years onboard experience in deck department on military naval inland ships</li> <li>University/College graduate civil profile, navigation specialty with diploma + 1 year onboard experience in the last 5 years</li> <li>Boatman + 3 years onboard experience out of which 1 year in the last 5 years</li> <li>Able boatman + 1 year onboard experience in the last 5 years</li> </ul>
General capabilities	<ul style="list-style-type: none"> <li>physical fitness and psychical skills (keenness of sight and hearing, the skill of distinguishing colours, motility of upper and lower limbs, excellent neuropsychiatric and vascular condition)</li> <li>communication</li> <li>manual dexterity</li> <li>self-reliant</li> <li>technical literacy</li> <li>team work</li> <li>environmental literacy</li> <li>organisation and planning of work</li> <li>personal development</li> <li>flexibility in thinking</li> <li>decision making</li> <li>management of people</li> </ul>
Professional knowledge	<ul style="list-style-type: none"> <li>the manners of management and operation of small vessels</li> <li>the regulations for the operation on water areas</li> <li>the principles of safety and protection of health during work and fire protection</li> <li>the manners of operation of technical aids and tools in the process of operation of a vessel</li> <li>the manners of operation of board, mooring and anchor equipment of a vessel</li> <li>the rules for safe operation of a vessel</li> </ul>

	<ul style="list-style-type: none"> <li>• the manners of operation, maintenance of mechanical equipment of a vessel</li> <li>• the regulations which provide the issuing and interpretation of light and sound signals and monitoring of navigation lights during manoeuvring of a vessel</li> <li>• fundamental rules to prevent accidents</li> <li>• measures in the event of damage, collision and running aground, including water holes</li> <li>• use of tools and materials for rescue operations</li> <li>• first aid in case of accident</li> <li>• knowledge regarding fire prevention and firefighting systems</li> <li>• pollution prevention of inland waterways</li> <li>• Specific rules for rescue persons, vessel and cargo on inland waterways and sea survival</li> </ul>
<b>Professional competencies</b>	<ul style="list-style-type: none"> <li>• servicing and maintenance of vessels</li> <li>• orientation in light and sound signalling in inland shipping</li> <li>• mooring of vessels, preparation of anchors and tying of ropes on a vessel</li> <li>• observance of safety and protection of health during work and fire protection</li> <li>• keeping of the documentation about the operation of a vessel</li> <li>• replenishment of consumable board material</li> <li>• providing of the necessary assistance to transported persons (the providing of liquid, the provision of first aid if it is necessary)</li> </ul>

<b>job position</b>	<b>Engineer</b>
EQF level	3
Regulated permission	<ul style="list-style-type: none"> <li>• <b>Order of the Ministry of Transport, Constructions and Tourism no. 318 of 03/03/2006</b> regarding the approval of the training standards, competence confirmation and issue of competence certificates to the sailing staff for inland waterways ships flying the Romanian flag as amended by Order of the Minister of Transport, Constructions and Tourism no. 509 of 06/20/2007 and Order no. 921 of 20/09/2007</li> </ul>
Practical training experience	<ul style="list-style-type: none"> <li>• Apprentice Mechanic + 1 year on board experience in the last 5 years, or</li> <li>• Graduate of mechanic/motorman vocational qualification course + 2 months on board experience in the last 5 years</li> <li>• Electrician/Stoker/Fitter + 1 year on board experience in the last 5 years as apprentice mechanic, or</li> <li>• Graduate of vocational navigation school specialization mechanics/graduate of military naval secondary school both of them with vocational qualification certificate level 2 + 2 months on board experience as apprentice mechanic, or</li> </ul>

	<ul style="list-style-type: none"> <li>• Graduate of technical university/college mechanical or naval profile + 1 year on board experience as apprentice mechanic in the last 5 years</li> <li>• Graduate of the 3<sup>rd</sup> year of a civil marine university, naval electro mechanics specialization + 1 year on board experience as apprentice mechanic</li> <li>• Graduate of university military naval profile, specialization electro mechanics with diploma/petty officer, specialization naval electro mechanics + 2 years on board experience in naval engines department on navy ships</li> <li>• Graduate of university/college military naval profile, specialization naval electro mechanics + 6 months on board experience as apprentice mechanic</li> </ul>
General capabilities	<ul style="list-style-type: none"> <li>• analysis and solving of the problems</li> <li>• physical fitness and psychical skills (keenness of sight and hearing, the skill of distinguishing colours, motility of upper and lower limbs, excellent neuropsychiatric and vascular condition)</li> <li>• manual dexterity</li> <li>• self-reliant</li> <li>• technical literacy</li> <li>• organisation and planning of work</li> <li>• flexibility in thinking</li> <li>• decision making</li> <li>• leading of people</li> </ul>
Professional knowledge	<ul style="list-style-type: none"> <li>• tools, jigs and gauges in mechanical engineering</li> <li>• control modules and equipment</li> <li>• types and operation of hoisting equipment</li> <li>• drawing documentation in mechanical engineering</li> <li>• electrical engineering</li> <li>• the methods of adjustment, maintenance and repair of machine equipment (the main machines, auxiliary engines, compressors, pumps and other mechanical equipment of a vessel)</li> <li>• the parts of ship engines, mechanisms and devices</li> <li>• fundamental rules to prevent accidents</li> <li>• measures in the event of damage, collision and running aground, including water holes</li> <li>• use of tools and materials for rescue operations</li> <li>• first aid in case of accident</li> <li>• knowledge regarding fire prevention and firefighting systems</li> <li>• pollution prevention of inland waterways</li> <li>• Specific rules for rescue persons, vessel and cargo on inland waterways and sea survival</li> </ul>
<b>Professional competencies</b>	<ul style="list-style-type: none"> <li>• servicing and maintenance of board equipment on a vessel</li> <li>• leading of record keeping and administrative works of an inland vessel</li> <li>• refuelling and exchange of operating materials and fuel</li> </ul>

	<ul style="list-style-type: none"> <li>• orientation in the standards and technical documentations of a vessel</li> <li>• adjustment of the control circuits of machines and devices of a vessel</li> <li>• use of the gauges and the diagnostic machines</li> </ul>
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<b>job position</b>	<b>Chief Engineer</b>
EQF level	3
Regulated permission	<ul style="list-style-type: none"> <li>• <b>Order of the Ministry of Transport, Constructions and Tourism no. 318 of 03/03/2006</b> regarding the approval of the training standards, competence confirmation and issue of competence certificates to the sailing staff for inland waterways ships flying the Romanian flag as amended by Order of the Minister of Transport, Constructions and Tourism no. 509 of 06/20/2007 and Order no. 921 of 20/09/2007</li> </ul>
Practical training experience	<ul style="list-style-type: none"> <li>• Mechanic/Mechanic Ship Engine + 4 years on board experience from which 1 year in the last five years</li> <li>• At least 19 years of age</li> <li>• Graduate of a qualification course for Nautical Engineer</li> <li>• Successful graduation of certification exam organized by the Romanian Naval Authority</li> </ul>
General capabilities	<ul style="list-style-type: none"> <li>• analysis and solving of the problems</li> <li>• physical fitness and psychical skills (keenness of sight and hearing, the skill of distinguishing colours, motility of upper and lower limbs, excellent neuropsychiatric and vascular condition)</li> <li>• manual dexterity</li> <li>• self-reliant</li> <li>• technical literacy</li> <li>• organisation and planning of work</li> <li>• flexibility in thinking</li> <li>• decision making</li> <li>• leading of people</li> </ul>
Professional knowledge	<ul style="list-style-type: none"> <li>• the manners of operation, maintenance and repair of mechanical equipment of inland vessels</li> <li>• standardized procedures within the activities of a captain, a boatman, a helmsman of an inland vessel</li> <li>• tools, jigs and gauges in mechanical engineering</li> <li>• drawing documentation in mechanical engineering</li> <li>• electrical engineering</li> <li>• the parts of ship machineries and devices</li> <li>• the principles of operation of ship machineries and devices</li> <li>• Navigation Geography (the basis of Navigation Geography, hydrological and hydro-meteorological information)</li> <li>• the rules for safe operation of a vessel</li> <li>• fundamental rules to prevent accidents</li> </ul>

	<ul style="list-style-type: none"> <li>• measures in the event of damage, collision and running aground, including water holes</li> <li>• use of tools and materials for rescue operations</li> <li>• first aid in case of accident</li> <li>• knowledge regarding fire prevention and firefighting systems</li> <li>• pollution prevention of inland waterways</li> <li>• Specific rules for rescue persons, vessel and cargo on inland waterways and sea survival</li> </ul>
<b>Professional competencies</b>	<ul style="list-style-type: none"> <li>• organisation of the activities of crew members in the engine room on a vessel</li> <li>• control of technical condition of an inland vessel (anchor equipment, signal system, lubrication, cooling and charging of batteries and manometers)</li> <li>• record keeping and administrative works of an inland vessel</li> <li>• orientation in the standards and technical documentations of a vessel</li> <li>• operation, maintenance and repair of mechanical equipment of a vessel (operation, maintenance, arranging and repair of mechanical, electrical devices of a vessel)</li> <li>• use of the measures and the machine diagnostics</li> <li>• preparation of a vessel and its devices for safe operation</li> </ul>

<b>job position</b>	<b>Helmsman</b>
EQF level	3
Regulated permission	<ul style="list-style-type: none"> <li>• <b>Order of the Ministry of Transport, Constructions and Tourism no. 318 of 03/03/2006</b> regarding the approval of the training standards, competence confirmation and issue of competence certificates to the sailing staff for inland waterways ships flying the Romanian flag as amended by Order of the Minister of Transport, Constructions and Tourism no. 509 of 06/20/2007 and Order no. 921 of 20/09/2007</li> </ul>
Practical training experience	<ul style="list-style-type: none"> <li>• Boatman + 2 years on board experience out of which 1 year in the last 5 years, or</li> <li>• Maritime helmsman + 1 year on board experience in the last 5 years, or</li> <li>• Maritime/River able boatman + 1 year on board experience in the last 5 years, or</li> <li>• River/Maritime ship pilot + 1 year on board experience in the last 5 years, or</li> <li>• Graduate of civil marine university/college, specialization navigation with diploma + 1 year on board experience in the last 5 years, or</li> <li>• Graduate of a university with military naval profile, specialization navigation with diploma + 2 years on board experience in deck department on military naval inland ships</li> </ul>
General capabilities	<ul style="list-style-type: none"> <li>• analysis and solving of the problems</li> </ul>

	<ul style="list-style-type: none"> <li>• physical fitness and psychical skills (keenness of sight and hearing, the skill of distinguishing colours, motility of upper and lower limbs, excellent neuropsychiatric and vascular condition)</li> <li>• manual dexterity</li> <li>• self-reliant</li> <li>• technical literacy</li> <li>• organisation and planning of work</li> <li>• flexibility in thinking</li> <li>• decision making</li> <li>• leading of people</li> </ul>
Professional knowledge	<ul style="list-style-type: none"> <li>• the manners of operation, maintenance and repair of mechanical equipment of inland vessels</li> <li>• standardized procedures within the activities of a captain, a boatman, a helmsman of an inland vessel</li> <li>• the parts of ship engines, installations and devices</li> <li>• the principles of operation of ship engines, installations and devices</li> <li>• Navigation Geography (the basis of Navigation Geography, hydrological and hydro-meteorological information)</li> <li>• the rules for safe operation of a vessel</li> <li>• fundamental rules to prevent accidents</li> <li>• measures in the event of damage, collision and running aground, including water holes</li> <li>• use of tools and materials for rescue operations</li> <li>• first aid in case of accident</li> <li>• knowledge regarding fire prevention and firefighting systems</li> <li>• pollution prevention of inland waterways</li> <li>• Specific rules for rescue persons, vessel and cargo on inland waterways and sea survival</li> </ul>
<b>Professional competencies</b>	<ul style="list-style-type: none"> <li>• organisation of the activities of engine crew members on a vessel</li> <li>• control of technical condition of an inland vessel (anchor equipment, signal system, lubrication, cooling and charging of batteries and manometers)</li> <li>• record keeping and administrative works of an inland vessel</li> <li>• orientation in the standards and technical documentations of a vessel</li> <li>• operation, maintenance and repair of mechanical equipment of a vessel (operation, maintenance, arranging and repair of mechanical, electrical devices of a vessel)</li> <li>• use of the measures and the engine diagnostics</li> <li>• preparation of a vessel and its devices for safe operation</li> </ul>



<b>job position</b>	<b>Captain level B</b>
EQF level	4
Regulated permission	<ul style="list-style-type: none"> <li>• <b>Order of the Ministry of Transport, Constructions and Tourism no. 318 of 03/03/2006</b> regarding the approval of the training standards, competence confirmation and issue of competence certificates to the sailing staff for inland waterways ships flying the Romanian flag as amended by Order of the Minister of Transport, Constructions and Tourism no. 509 of 06/20/2007 and Order no. 921 of 20/09/2007</li> </ul>
Practical training experience	<ul style="list-style-type: none"> <li>• Helmsman + 4 years on board experience with 1 year in the last 5 years, or</li> <li>• River Deck Officer + 4 years on board experience with 1 year in the last 5 years/4 years on board experience on maritime ships and 1 year in the last 5 years as river officer/2 years on board experience in the last 5 years as river officer for those officers coming from river helmsman, ship pilot)</li> </ul>
General capabilities	<ul style="list-style-type: none"> <li>• <b>analysis and solving of the problems</b></li> <li>• decision making</li> <li>• self-reliant</li> <li>• leading of people</li> <li>• environmental literacy</li> <li>• physical fitness and psychical skills (keenness of sight and hearing, the skill of distinguishing colours, motility of upper and lower limbs, excellent neuropsychiatric and vascular condition)</li> <li>• information literacy</li> <li>• communication skills</li> <li>• communication in a foreign language</li> <li>• sophisticated writing skills</li> <li>• sophisticated word speech</li> <li>• organisation and planning of work</li> <li>• personal development</li> <li>• flexibility in thinking</li> <li>• technical literacy</li> <li>• team work</li> <li>• digital literacy (computer competences)</li> <li>• financial literacy</li> </ul>
Professional knowledge	<ul style="list-style-type: none"> <li>• Rules of navigation on the Danube, including signalling and beaconing inland waterways</li> <li>• characteristics of the main inland waterway from geographical, hydrological, meteorological and morphological point of view</li> <li>• inland navigation comprising: establishing the route and determining the position of the ship, documents and publications naval, beaconing navigation systems</li> <li>• steering on the wind conditions, current, counter current of the draught, to a sufficient floatability and stability</li> </ul>

	<ul style="list-style-type: none"> <li>• the role and functioning of the rudder and propeller</li> <li>• anchoring and mooring manoeuvres in all conditions</li> <li>• manoeuvres in locks and ports, manoeuvres when meeting and overcoming</li> <li>• fundamental principles of construction of the ship, in particular as regards the safety of passengers, crew and the ship</li> <li>• Directive 82/714 / EEC of 4 October 1982, establishing technical standards for inland waterway vessels - general knowledge</li> <li>• basic knowledge of the main elements of vessel structure</li> <li>• Theoretical knowledge of the floatability and stability, their practical application, especially navigability</li> <li>• basic knowledge of the construction and proper functioning and operation of machinery</li> <li>• command and control operation of main and auxiliary machinery, manage troubleshooting appropriately</li> <li>• Calculation of loading using the certificate to determine the loading capacity</li> <li>• loading and unloading operations, cargo operations</li> <li>• fundamental rules to prevent accidents</li> <li>• measures in the event of damage, collision and running aground, including water holes</li> <li>• use of tools and materials for rescue operations</li> <li>• first aid in case of accident</li> <li>• knowledge regarding fire prevention and firefighting systems</li> <li>• pollution prevention of inland waterways</li> <li>• Specific rules for rescue persons, vessel and cargo on inland waterways and sea survival</li> </ul>
<p><b>Professional competencies</b></p>	<ul style="list-style-type: none"> <li>• orientation in the standards and technical documentations of a vessel</li> <li>• control of safety of crew members and passengers onboard</li> <li>• manoeuvring/steering and operation of a small vessel</li> <li>• management and control of crew members' work</li> <li>• manage the documentation about operation of a vessel</li> <li>• steering a self-propelled vessel</li> <li>• operation of board equipment and anchoring devices of an inland vessel of higher class</li> <li>• use and operation of technical aids and tools during the securing and supervision of cargo</li> <li>• orientation in light and sound signalling in inland shipping</li> <li>• control of readiness of a vessel for inland navigation, passenger safety, transported cargoes, safety and fire equipment</li> <li>• orientation in the documents of cargoes that are transported by inland shipping</li> <li>• observance of safety and protection of health during work and fire protection</li> </ul>

<b>job position</b>	<b>Captain level A</b>
EQF level	4
Regulated permission	<ul style="list-style-type: none"> <li>• <b>Order of the Ministry of Transport, Constructions and Tourism no. 318 of 03/03/2006</b> regarding the approval of the training standards, competence confirmation and issue of competence certificates to the sailing staff for inland waterways ships flying the Romanian flag as amended by Order of the Minister of Transport, Constructions and Tourism no. 509 of 06/20/2007 and Order no. 921 of 20/09/2007</li> </ul>
Practical training experience	<ul style="list-style-type: none"> <li>• Helmsman + 4 years on board experience with 1 year in the last 5 years, or</li> <li>• River Deck Officer + 4 years on board experience with 1 year in the last 5 years/4 years on board experience on maritime ships and 1 year in the last 5 years as river officer/2 years on board experience from the last 5 years for officers (helmsman, ship pilot)</li> </ul>
General capabilities	<ul style="list-style-type: none"> <li>• <b>analysis and solving of the problems</b></li> <li>• decision making</li> <li>• self-reliant</li> <li>• leading of people</li> <li>• environmental literacy</li> <li>• physical fitness and psychical skills (keenness of sight and hearing, the skill of distinguishing colours, motility of upper and lower limbs, excellent neuropsychiatric and vascular condition)</li> <li>• information literacy</li> <li>• communication skills</li> <li>• communication in a foreign language</li> <li>• sophisticated writing skills</li> <li>• sophisticated word speech</li> <li>• organisation and planning of work</li> <li>• personal development</li> <li>• flexibility in thinking</li> <li>• technical literacy</li> <li>• team work</li> <li>• digital literacy (computer competences)</li> <li>• financial literacy</li> </ul>
Professional knowledge	<ul style="list-style-type: none"> <li>• Regulations on inland waterway navigation, especially navigation on the Danube and Rules of International Regulations for Preventing Collisions at Sea (COLREG), including signalling and beaconing in inland waterways</li> <li>• characteristics of the main inland waterway from geographical, hydrological, meteorological and morphological point of view</li> <li>• short sea shipping comprising: determining the route and determining the position of the ship, documents and publications navigation systems, knowledge of tides</li> </ul>

	<ul style="list-style-type: none"> <li>• steering in wind conditions, current, counter current of draught, to a sufficient floatability and stability</li> <li>• the role and functioning of the rudder and propeller</li> <li>• anchoring and mooring manoeuvres in all conditions</li> <li>• manoeuvres in locks and ports, manoeuvres when meeting and overcoming other vessels</li> <li>• fundamental principles of construction of the ship, in particular as regards the safety of passengers, crew and the ship</li> <li>• Directive 82/714 / EEC of 4 October 1982, establishing technical standards for inland waterway vessels - general knowledge</li> <li>• basic knowledge of the main elements of vessel structure</li> <li>• Theoretical knowledge of the floatability and stability, their practical application, especially navigability</li> <li>• basic knowledge of the construction and operation of machinery in order their proper functioning</li> <li>• command and control operation of main and auxiliary machinery, conduct the appropriate troubleshooting</li> <li>• use the stairs draught</li> <li>• Calculation of the loading using the certificate to determine the loading capacity</li> <li>• loading and unloading operations, cargo operations</li> <li>• fundamental rules to prevent accidents</li> <li>• measures in the event of damage, collision and running aground, including water holes</li> <li>• use of tools and materials for rescue operations</li> <li>• first aid in case of accident</li> <li>• knowledge regarding fire prevention and firefighting systems</li> <li>• pollution prevention of inland waterways</li> <li>• Specific rules for rescue persons, vessel and cargo on inland waterways and sea survival</li> </ul>
<p><b><i>Professional competencies</i></b></p>	<ul style="list-style-type: none"> <li>• orientation in the standards and technical documentations of a vessel</li> <li>• control of safety of crew members and transported passengers</li> <li>• leading and operation of a small vessel</li> <li>• management and control of labour of crew members</li> <li>• manage the documentation about operation of a vessel</li> <li>• steering a self-propelled vessel</li> <li>• operation of board equipment and anchoring devices of an inland vessel of the higher class</li> <li>• use and operation of technical aids and tools during the securing of transport supervision</li> <li>• orientation in light and sound signalling in inland shipping</li> <li>• control of readiness of a vessel for inland navigation, passenger safety, transported cargoes, safety and fire equipment</li> <li>• orientation in the documents of cargoes that are transported by inland shipping</li> </ul>

	<ul style="list-style-type: none"> <li>• observance of safety and protection of health during work and fire protection</li> </ul>
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<b>job position</b>	<b>Expert in Passenger Transport</b>
EQF level	-
Regulated permission	<ul style="list-style-type: none"> <li>• <b>Order of the Ministry of Transport, Constructions and Tourism no. 318 of 03/03/2006</b> regarding the approval of the training standards, competence confirmation and issue of competence certificates to the sailing staff for inland waterways ships flying the Romanian flag as amended by Order of the Minister of Transport, Constructions and Tourism no. 509 of 06/20/2007 and Order no. 921 of 20/09/2007</li> </ul>
Practical training experience	<ul style="list-style-type: none"> <li>• Personnel already working onboard passenger vessels</li> </ul>
General capabilities	<ul style="list-style-type: none"> <li>• <b>analysis and solving of problems</b></li> <li>• decision making</li> <li>• self-reliant</li> <li>• leading of people</li> <li>• environmental literacy</li> <li>• physical fitness and psychical skills (keenness of sight and hearing, the skill of distinguishing colours, motility of upper and lower limbs, excellent neuropsychiatric and vascular condition)</li> <li>• information literacy</li> <li>• communication skills</li> <li>• communication in a foreign language</li> <li>• sophisticated writing skills</li> <li>• sophisticated word speech</li> <li>• organisation and planning of work</li> <li>• personal development</li> <li>• flexibility in thinking</li> <li>• technical literacy</li> <li>• team work</li> <li>• digital literacy (computer competences)</li> <li>• financial literacy</li> </ul>
Professional knowledge	<ul style="list-style-type: none"> <li>• Regulations on inland waterway navigation, especially navigation on the Danube and Rules of International Regulations for Preventing Collisions at Sea (COLREG), including signalling and beaconing in inland waterways</li> <li>• Knowledge of latest technologies in building passenger vessels</li> <li>• characteristics of the main inland waterway from geographical, hydrological, meteorological and morphological point of view</li> <li>• short sea shipping comprising: determining the route and determining the position of the ship, documents and publications navigation systems, knowledge of tides</li> </ul>

	<ul style="list-style-type: none"> <li>• steering in wind conditions, current, counter current of draught, to a sufficient floatability and stability</li> <li>• the role and functioning of the rudder and propeller</li> <li>• anchoring and mooring manoeuvres in all conditions</li> <li>• manoeuvres in locks and ports, manoeuvres when meeting and overcoming other vessels</li> <li>• fundamental principles of construction of the ship, in particular as regards the safety of passengers, crew and the ship</li> <li>• Directive 82/714 / EEC of 4 October 1982, establishing technical standards for inland waterway vessels - general knowledge</li> <li>• Theoretical knowledge of the floatability and stability, their practical application, especially navigability</li> <li>• sound knowledge regarding construction and operation of machinery in order their proper functioning</li> <li>• command and control operation of main and auxiliary machinery, conduct the appropriate troubleshooting</li> <li>• use of draught scale</li> <li>• measures in the event of damage, collision and running aground, including water holes</li> <li>• knowledge regarding fire prevention and firefighting systems</li> <li>• pollution prevention of inland waterways</li> <li>• Specific rules for rescue persons, vessel and cargo on inland waterways and sea survival</li> <li>• Knowledge regarding emergency procedures in case of danger</li> <li>• Knowledge about safety and security measures on board river passenger vessels</li> </ul>
<p><b><i>Professional competencies</i></b></p>	<ul style="list-style-type: none"> <li>• orientation in the standards and technical documentations of a vessel</li> <li>• control of safety of crew members and transported passengers</li> <li>• calculation of damaged river passenger vessel stability and stability after damage</li> <li>• management and control of work of crew members</li> <li>• calculation of number of passengers to be carried on board</li> <li>• manage the documentation about operation of a vessel</li> <li>• application of special provisions regarding life-saving appliances</li> <li>• knowledge of responsibilities in normal operation conditions and in case of damage</li> <li>• management of critical situations onboard river passenger vessels</li> <li>• operation of board equipment and anchoring devices of an inland vessel of the higher class</li> <li>• control of readiness of a vessel for inland navigation, passenger safety, transported cargoes, safety and fire equipment</li> <li>• orientation in the documents of cargoes that are transported by inland shipping</li> </ul>

	<ul style="list-style-type: none"> <li>• observance of safety and protection of health during work and fire protection</li> </ul>
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<b>job position</b>	<b>Safety Adviser for the carriage of Dangerous Goods on inland Waterways</b>
EQF level	-
Regulated permission	<ul style="list-style-type: none"> <li>• <b>Order of the Ministry of Transport, Constructions and Tourism no. 318 of 03/03/2006</b> regarding the approval of the training standards, competence confirmation and issue of competence certificates to the sailing staff for inland waterways ships flying the Romanian flag as amended by Order of the Minister of Transport, Constructions and Tourism no. 509 of 06/20/2007 and Order no. 921 of 20/09/2007</li> <li>• <b>Law 159/2008</b> for the accession of Romania to The European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways (ADN), done at Geneva on 26 May 2000, published in the Official Journal, Part. I no. 675 of 01/10/2008.</li> </ul>
Practical training experience	<ul style="list-style-type: none"> <li>• -</li> </ul>
General capabilities	<ul style="list-style-type: none"> <li>• <b>analysis and solving of problems</b></li> <li>• decision making</li> <li>• self-reliant</li> <li>• leading of people</li> <li>• environmental literacy</li> <li>• physical fitness and psychical skills (keenness of sight and hearing, the skill of distinguishing colours, motility of upper and lower limbs, excellent neuropsychiatric and vascular condition)</li> <li>• information literacy</li> <li>• communication skills</li> <li>• communication in a foreign language</li> <li>• sophisticated writing skills</li> <li>• sophisticated word speech</li> <li>• organisation and planning of work</li> <li>• personal development</li> <li>• flexibility in thinking</li> <li>• technical literacy</li> <li>• team work</li> <li>• digital literacy (computer competences)</li> <li>• financial literacy</li> </ul>
Professional knowledge	<ul style="list-style-type: none"> <li>• Regulations on inland waterway navigation, especially navigation on the Danube and Rules of International Regulations for Preventing Collisions at Sea (COLREG), including signalling and beaconing in inland waterways</li> <li>• General knowledge on transport of dangerous goods on board inland waterways vessels</li> </ul>

	<ul style="list-style-type: none"> <li>• characteristics of the main inland waterway from geographical, hydrological, meteorological and morphological point of view</li> <li>• short sea shipping comprising: determining the route and determining the position of the ship, documents and publications navigation systems, knowledge of tides</li> <li>• knowledge of national and international provisions regarding transport of dangerous goods on IW vessels</li> <li>• Directive 82/714 / EEC of 4 October 1982, establishing technical standards for inland waterway vessels - general knowledge</li> <li>• Risks associated to theft and damage of dangerous goods</li> <li>• knowledge regarding fire prevention and firefighting systems</li> <li>• pollution prevention of inland waterways</li> <li>• Specific rules for rescue persons, vessel and cargo on inland waterways and sea survival</li> <li>• Knowledge regarding emergency procedures in case of danger</li> <li>• Knowledge about safety and security measures on board river passenger vessels</li> <li>• knowledge of the documents accompanying dangerous cargoes transported by inland waterways</li> </ul>
<b>Professional competencies</b>	<ul style="list-style-type: none"> <li>• orientation in the standards and technical documentations of a vessel</li> <li>• control of safety of crew members and dangerous goods</li> <li>• determine and manage risks associated to theft or damage of dangerous cargo</li> <li>• manage the documentation about dangerous cargo loading, carriage and unloading</li> <li>• application of special provisions regarding life-saving appliances</li> <li>• knowledge of responsibilities in normal operation conditions and in case of damage</li> <li>• management of critical situations</li> <li>• observance of safety and protection of health during work and fire protection</li> <li>• development and monitoring of the security plan for the transport of dangerous cargoes by inland waterways</li> </ul>

<b>job position</b>	<b>Radiotelephone Operator in the Radiotelephony Service on Inland Waterways</b>
EQF level	-
Regulated permission	<ul style="list-style-type: none"> <li>• <b>Order of the Ministry of Transport, Constructions and Tourism no. 318 of 03/03/2006</b> regarding the approval of the training standards, competence confirmation and issue of competence certificates to the sailing staff for inland waterways ships flying the Romanian flag as amended by Order of the Minister of Transport, Constructions and Tourism no. 509 of 06/20/2007 and Order no. 921 of 20/09/2007</li> </ul>



Practical training experience	<ul style="list-style-type: none"> <li>• Deck officers that use RTF stations onboard river vessels and personnel already working in the RTF stations on shore</li> </ul>
General capabilities	<ul style="list-style-type: none"> <li>• <b>analysis and solving of problems</b></li> <li>• decision making</li> <li>• self-reliant</li> <li>• leading of people</li> <li>• environmental literacy</li> <li>• physical fitness and psychical skills (keenness of sight and hearing, the skill of distinguishing colours, motility of upper and lower limbs, excellent neuropsychiatric and vascular condition)</li> <li>• information literacy</li> <li>• communication skills</li> <li>• communication in a foreign language</li> <li>• sophisticated writing skills</li> <li>• sophisticated word speech</li> <li>• organisation and planning of work</li> <li>• personal development</li> <li>• flexibility in thinking</li> <li>• technical literacy</li> <li>• team work</li> <li>• digital literacy (computer competences)</li> <li>• financial literacy</li> </ul>
Professional knowledge	<ul style="list-style-type: none"> <li>• Regulations on inland waterway navigation, especially navigation on the Danube and Rules of International Regulations for Preventing Collisions at Sea (COLREG), including signalling and beaconing in inland waterways</li> <li>• characteristics of the main inland waterway from geographical, hydrological, meteorological and morphological point of view</li> <li>• short sea shipping comprising: determining the route and determining the position of the ship, documents and publications navigation systems, knowledge of tides</li> <li>• knowledge of procedures to use RTF stations</li> <li>• knowledge of national and international provisions and regulations with reference to radio-communications on inland waterways</li> <li>• knowledge of Danube Commission recommendations on the use of radio-communications on the Danube</li> <li>• good knowledge of inland waterways standard vocabulary in German language</li> <li>• knowledge of rules and procedures with reference to radiotelephony traffic</li> <li>• good knowledge of radiotelephony systems and services in inland navigation and access to information on the Danube</li> <li>• Directive 82/714 / EEC of 4 October 1982, establishing technical standards for inland waterway vessels - general knowledge</li> <li>• basic knowledge of the main elements of vessel structure</li> <li>• fundamental rules to prevent accidents</li> </ul>

	<ul style="list-style-type: none"> <li>• measures in the event of damage, collision and running aground, including water holes</li> <li>• use of tools and materials for rescue operations</li> <li>• first aid in case of accident</li> <li>• knowledge regarding fire prevention and firefighting systems</li> <li>• pollution prevention of inland waterways</li> <li>• Specific rules for rescue persons, vessel and cargo on inland waterways and sea survival</li> </ul>
<b>Professional competencies</b>	<ul style="list-style-type: none"> <li>• orientation in the standards and technical documentations of RTF stations</li> <li>• application of national and international provisions and regulations with reference to radio-communications on inland waterways</li> <li>• application of Danube Commission recommendations on the use of radio-communications on the Danube</li> <li>• application of rules and procedures with reference to radiotelephony traffic</li> <li>• good usage of radiotelephony systems and services in inland navigation and access to information on the Danube</li> <li>• communicate in German language on radio communications issues</li> <li>• proper use of inland waterways standard vocabulary in German language on ship maneuvering, warnings, accidents and damage, providing assistance in case of emergency, going to anchor, leaving port, meeting, overtaking, forming a convoy of vessels, entry and exit locks</li> <li>• inform authorities on various subjects</li> <li>• observance of safety and protection of health during work and fire protection</li> </ul>

<b>job position</b>	<b>River Engineer</b>
EQF level	-
Regulated permission	<ul style="list-style-type: none"> <li>• <b>Order of the Ministry of Transport, Constructions and Tourism no. 318 of 03/03/2006</b> regarding the approval of the training standards, competence confirmation and issue of competence certificates to the sailing staff for inland waterways ships flying the Romanian flag as amended by Order of the Minister of Transport, Constructions and Tourism no. 509 of 06/20/2007 and Order no. 921 of 20/09/2007</li> </ul>
Practical training experience	<ul style="list-style-type: none"> <li>• Graduate of secondary school, at least 18 years old</li> <li>• No practical training experience needed</li> </ul>
General capabilities	<ul style="list-style-type: none"> <li>• analysis and solving of the problems</li> <li>• physical fitness and psychical skills (keenness of sight and hearing, the skill of distinguishing colours, motility of upper and lower limbs, excellent neuropsychiatric and vascular condition)</li> <li>• manual dexterity</li> <li>• self-reliant</li> </ul>

	<ul style="list-style-type: none"> <li>• technical literacy</li> <li>• organisation and planning of work</li> <li>• flexibility in thinking</li> <li>• decision making</li> </ul>
Professional knowledge	<ul style="list-style-type: none"> <li>• Regulations on inland waterway navigation, especially navigation on the Danube and Rules of International Regulations for Preventing Collisions at Sea (COLREG), including signaling and beaconing in inland waterways</li> <li>• characteristics of the main inland waterway from geographical, hydrological, meteorological and morphological point of view</li> <li>• general knowledge of engines, boilers, internal combustion engines, and other installations onboard IW vessels</li> <li>• types and operation of engines and boilers</li> <li>• methods of adjustment, maintenance and repair of machine equipment (engines, auxiliary engines, boilers, compressors, pumps and other mechanical equipment of a vessel)</li> <li>• the parts of ship engines, mechanisms and devices</li> <li>• automation of river vessel engines</li> <li>• knowledge of safe operation of machine equipment and other installations onboard IW vessels</li> <li>• knowledge how to maintain ship floatability in case of danger</li> <li>• Directive 82/714 / EEC of 4 October 1982, establishing technical standards for inland waterway vessels - general knowledge</li> <li>• basic knowledge of the main elements of vessel structure</li> <li>• fundamental rules to prevent accidents</li> <li>• measures in the event of damage, collision and running aground, including water holes</li> <li>• use of tools and materials for rescue operations</li> <li>• first aid in case of accident</li> <li>• knowledge regarding fire prevention and firefighting systems</li> <li>• pollution prevention of inland waterways</li> <li>• Specific rules for rescue persons, vessel and cargo on inland waterways and sea survival</li> </ul>
<b>Professional competencies</b>	<ul style="list-style-type: none"> <li>• servicing and maintenance of board equipment on a vessel</li> <li>• leading of record keeping and administrative works of an inland vessel</li> <li>• refuelling and exchange of operating materials and fuel</li> <li>• orientation in the standards and technical documentations of a vessel</li> <li>• adjustment of the control circuits of machines and devices of a vessel</li> <li>• safe use of gauges, installations, engines and machines</li> </ul>

Reference: <http://www.rna.ro/Legislatie/Personal%20navigant/OMTCT%20318-2006%20%20mod.509%20si%20921%20fluviu.pdf> , 19 February 2017

## Annex 3: Job positions in Slovakia

<b>job position</b>	<b>boatman</b>
EQF level	2
Regulated permission	<ul style="list-style-type: none"> <li>• <b>ACT 338 of 22 September 2000 on Inland Navigation</b> and on Amendments of some Acts</li> <li>• <b>Ministry of Transport, Post and Telecommunication skills of the Slovak Republic Decree No. 12/2005</b> Coll. on the qualification prerequisites, verification of professional competency, vessel crews and the captains of small vessels and the templates for the professional certificates for vessel crew members</li> </ul>
Practical training experience	<ul style="list-style-type: none"> <li>• at least 1 year according to <b>Act 338 of 22 September 2000 on Inland Navigation</b> and <b>Decree No. 12/2005</b></li> </ul>
General capabilities	<ul style="list-style-type: none"> <li>• physical fitness</li> <li>• manual dexterity</li> <li>• self-reliant</li> <li>• environmental literacy</li> <li>• communication</li> <li>• personal development</li> <li>• technical literacy</li> </ul>
Professional knowledge	<ul style="list-style-type: none"> <li>• the rules and procedures for loading, unloading and handling with transported cargo in ports</li> <li>• the regulations for the operation on water areas</li> <li>• the manners of management and operation of small vessels</li> <li>• the manners of operation of board, mooring and anchor equipment of a vessel</li> <li>• the rules for safe operation of a vessel</li> <li>• the manners of operation of technical aids and tools in the process of operation of a vessel</li> <li>• knowledge of safety rules</li> <li>• the regulations which provide the issuing and interpretation of light and sound signals and monitoring of navigation lights during manoeuvring of a vessel</li> <li>• the manners of operation, maintenance and repair of mechanical equipment of vessels</li> </ul>
<b>Professional competencies</b>	<ul style="list-style-type: none"> <li>• servicing and maintenance of vessels</li> <li>• orientation in light and sound signalling in inland shipping</li> <li>• receiving and delivering of cargo that is transported by a vessel</li> <li>• mooring of vessels, preparation of anchors and tying of ropes on a vessel</li> <li>• use and operation of technical aids and tools during the operation of a vessel</li> <li>• management and operation of small vessels under the control of a captain</li> <li>• observance of rules of occupational safety and hygiene of labour</li> </ul>

	<ul style="list-style-type: none"> <li>operation of board equipment and anchoring devices of an inland vessel of the middle class</li> </ul>
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<b>job position</b>	<b>Able boatman</b>
EQF level	3
Regulated permission	<ul style="list-style-type: none"> <li><b>ACT 338 of 22 September 2000 on Inland Navigation</b> and on Amendments of some Acts</li> <li><b>Ministry of Transport, Post and Telecommunication skills of the Slovak Republic Decree No. 12/2005</b> Coll. on the qualification prerequisites, verification of professional competency, vessel crews and the captains of small vessels and the templates for the professional certificates for vessel crew members</li> </ul>
Practical training experience	<ul style="list-style-type: none"> <li>at least 1 year according to <b>Act 338 of 22 September 2000 on Inland Navigation</b> and <b>Decree No. 12/2005</b></li> </ul>
General capabilities	<ul style="list-style-type: none"> <li>physical fitness</li> <li>communication</li> <li>manual dexterity</li> <li>self-reliant</li> <li>technical literacy</li> <li>team work</li> <li>environmental literacy</li> <li>organisation and planning of work</li> <li>personal development</li> <li>flexibility in thinking</li> <li>decision making</li> <li>management of people</li> </ul>
Professional knowledge	<ul style="list-style-type: none"> <li>the manners of management and operation of small vessels</li> <li>the regulations for the operation on water areas</li> <li>the rules and procedures for loading, unloading and handling with transported cargo in ports</li> <li>the principles of safety and protection of health during work and fire protection</li> <li>the manners of operation of technical aids and tools in the process of operation of a vessel</li> <li>the manners of operation of board, mooring and anchor equipment of a vessel</li> <li>the rules for safe operation of a vessel</li> <li>the manners of operation, maintenance of mechanical equipment of a vessel</li> <li>standardized procedures within the activities of a crew member of a vessel</li> <li>the regulations which provide the issuing and interpretation of light and sound signals and monitoring of navigation lights during manoeuvring of a vessel</li> </ul>
<b>Professional competencies</b>	<ul style="list-style-type: none"> <li>servicing and maintenance of vessels</li> </ul>

	<ul style="list-style-type: none"> <li>• orientation in light and sound signalling in inland shipping</li> <li>• receiving and delivering of cargo that is transported by a vessel (including taking over and handing in unmanned vessels)</li> <li>• mooring of vessels, preparation of anchors and tying of ropes on a vessel</li> <li>• use and operation of technical aids and tools during the securing of transport supervision</li> <li>• management and operation of small vessels under the control of a captain</li> <li>• operation of board equipment and anchoring devices of an inland vessel of the middle class</li> <li>• observance of safety and protection of health during work and fire protection</li> <li>• keeping of the documentation about the operation of a vessel</li> <li>• replenishment of consumable board material</li> <li>• providing of the necessary assistance to transported persons (the providing of liquid, the provision of first aid if it is necessary)</li> </ul>
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<b>job position</b>	<b>ferryboat captain</b>
EQF level	3
Regulated permission	<ul style="list-style-type: none"> <li>• <b>ACT 338 of 22 September 2000 on Inland Navigation</b> and on Amendments of some Acts</li> <li>• <b>Ministry of Transport, Post and Telecommunication skills of the Slovak Republic Decree No. 12/2005</b> Coll. on the qualification prerequisites, verification of professional competency, vessel crews and the captains of small vessels and the templates for the professional certificates for vessel crew members</li> </ul>
Practical training experience	<ul style="list-style-type: none"> <li>• at least 2 years according to <b>Act 338 of 22 September 2000 on Inland Navigation</b> and <b>Decree No. 12/2005</b></li> </ul>
General capabilities	<ul style="list-style-type: none"> <li>• physical fitness</li> <li>• communication</li> <li>• manual dexterity</li> <li>• self-reliant</li> <li>• technical literacy</li> <li>• environmental literacy</li> <li>• organisation and planning of work</li> <li>• personal development</li> <li>• flexibility in thinking</li> <li>• decision making</li> <li>• analysis and solving of the problems</li> <li>• cultivated verbal expression, ability to express yourself</li> </ul>
Professional knowledge	<ul style="list-style-type: none"> <li>• the regulations for the operation on water areas</li> <li>• the rules and procedures for loading, unloading and handling with transported cargo in ports</li> <li>• the manners of conducting of a vessel on the waterway</li> </ul>

	<ul style="list-style-type: none"> <li>• the manners of operation of board, mooring and anchor equipment of a vessel</li> <li>• the manners of operation of technical aids and tools in the process of operation of a vessel</li> <li>• the rules for safe operation of a vessel</li> <li>• knowledge of the risks that present a danger for own health or the health of others and the principles of safety during work</li> <li>• standardized procedures within the activities of a crew member of a vessel</li> <li>• the regulations which provide the issuing and interpretation of light and sound signals and monitoring of navigation lights during manoeuvring of a vessel</li> </ul>
<b>Professional competencies</b>	<ul style="list-style-type: none"> <li>• orientation in light and sound signalling in inland shipping</li> <li>• use and operation of technical aids and tools during the securing of transport supervision</li> <li>• independent conducting of a vessel on the waterway</li> <li>• operation of board equipment and anchoring devices of an inland vessel of the higher class</li> <li>• conducting of navigation according to radar information</li> <li>• management and control of labour of crew members</li> <li>• observance of the principles of safety during work and hygiene</li> <li>• keeping of the documentation about the operation of a vessel</li> </ul>

<b>job position</b>	<b>machine operator of the 2<sup>nd</sup> class</b>
EQF level	3
Regulated permission	<ul style="list-style-type: none"> <li>• <b>ACT 338 of 22 September 2000 on Inland Navigation</b> and on Amendments of some Acts</li> <li>• <b>Ministry of Transport, Post and Telecommunication skills of the Slovak Republic Decree No. 12/2005</b> Coll. on the qualification prerequisites, verification of professional competency, vessel crews and the captains of small vessels and the templates for the professional certificates for vessel crew members</li> </ul>
Practical training experience	<ul style="list-style-type: none"> <li>• at least 2 years according to <b>Act 338 of 22 September 2000 on Inland Navigation</b> and <b>Decree No. 12/2005</b></li> </ul>
General capabilities	<ul style="list-style-type: none"> <li>• analysis and solving of the problems</li> <li>• physical fitness</li> <li>• manual dexterity</li> <li>• self-reliant</li> <li>• technical literacy</li> <li>• organisation and planning of work</li> <li>• flexibility in thinking</li> <li>• decision making</li> <li>• leading of people</li> </ul>



Professional knowledge	<ul style="list-style-type: none"> <li>• the manners of operation, maintenance and repair of mechanical equipment of inland vessels</li> <li>• standardized procedures within the activities of a captain, a boatman, a helmsman of an inland vessel</li> <li>• tools, jigs and gauges in mechanical engineering</li> <li>• drawing documentation in mechanical engineering</li> <li>• electrical engineering</li> <li>• the parts of ship machineries and devices</li> <li>• the principles of operation of ship machineries and devices</li> <li>• Navigation Geography (the basis of Navigation Geography, hydrological and hydro-meteorological information)</li> <li>• the rules for safe operation of a vessel</li> </ul>
<b>Professional competencies</b>	<ul style="list-style-type: none"> <li>• organisation of the activities of machine crew members on a vessel</li> <li>• control of technical condition of an inland vessel (anchor equipment, signal system, lubrication, cooling and charging of batteries and manometers)</li> <li>• leading of record keeping and administrative works of an inland vessel</li> <li>• orientation in the standards and technical documentations of a vessel</li> <li>• operation, maintenance and repair of mechanical equipment of a vessel (operation, maintenance, arranging and repair of mechanical, electrical devices of a vessel)</li> <li>• use of the measures and the machine diagnostics</li> <li>• preparation of a vessel and its devices for safe operation</li> </ul>

<b>job position</b>	<b>Engineer</b>
EQF level	3
Regulated permission	<ul style="list-style-type: none"> <li>• this job is not regulated by any legislation</li> </ul>
Practical training experience	<ul style="list-style-type: none"> <li>• at least 1 year</li> </ul>
General capabilities	<ul style="list-style-type: none"> <li>• analysis and solving of the problems</li> <li>• physical fitness</li> <li>• manual dexterity</li> <li>• self-reliant</li> <li>• technical literacy</li> <li>• organisation and planning of work</li> <li>• flexibility in thinking</li> <li>• decision making</li> <li>• leading of people</li> </ul>
Professional knowledge	<ul style="list-style-type: none"> <li>• tools, jigs and gauges in mechanical engineering</li> <li>• control modules and equipment</li> <li>• types and operation of hoisting equipment</li> </ul>

	<ul style="list-style-type: none"> <li>• drawing documentation in mechanical engineering</li> <li>• electrical engineering</li> <li>• the methods of adjustment, maintenance and repair of machine equipment (the main machines, auxiliary engines, compressors, pumps and other mechanical equipment of a vessel)</li> <li>• the parts of ship engines, mechanisms and devices</li> </ul>
<b>Professional competencies</b>	<ul style="list-style-type: none"> <li>• servicing and maintenance of board equipment on a vessel</li> <li>• leading of record keeping and administrative works of an inland vessel</li> <li>• refuelling and exchange of operating materials and fuel</li> <li>• orientation in the standards and technical documentations of a vessel</li> <li>• adjustment of the control circuits of machines and devices of a vessel</li> <li>• use of the gauges and the diagnostic machines</li> </ul>

job position	<b>dispatcher of inland shipping</b>
EQF level	4
Regulated permission	<ul style="list-style-type: none"> <li>• <b>Ministry of Transport, Post and Telecommunication skills of the Slovak Republic Decree No. 12/2005</b> Coll. on the qualification prerequisites, verification of professional competency, vessel crews and the captains of small vessels and the templates for the professional certificates for vessel crew members</li> </ul>
Practical training experience	<ul style="list-style-type: none"> <li>• at least 6 months</li> </ul>
General capabilities	<ul style="list-style-type: none"> <li>• analysis and solving of the problems</li> <li>• decision making</li> <li>• digital literacy (computer competences)</li> <li>• information literacy</li> <li>• communication skills</li> <li>• communication in a foreign language</li> <li>• sophisticated writing skills</li> <li>• sophisticated word speech</li> <li>• organisation and planning of work</li> <li>• flexibility in thinking</li> <li>• self-reliant</li> <li>• team work</li> <li>• bargaining</li> <li>• environmental literacy</li> <li>• financial literacy</li> <li>• personal development</li> <li>• technical literacy</li> <li>• leading of people</li> </ul>

Professional knowledge	<ul style="list-style-type: none"> <li>• internal organisation directives – normative instructions, internal regulations, intermural norms</li> <li>• broadcasting, telecommunication, radio communication and other communication devices and systems</li> <li>• mass media and security techniques and systems</li> <li>• the regulations for the operation on water areas ( the regulations of the Belgrade Agreement, the Bratislava Agreements and the Budapest Convention)</li> <li>• the principles of safety and protection of health during work and fire protection</li> <li>• structure and organisation of inland shipping</li> <li>• conditions for passenger transport and cargoes in inland shipping</li> <li>• information systems in inland shipping</li> <li>• the methods of dispatching management of inland shipping</li> <li>• navigation geography</li> </ul>
<b>Professional competencies</b>	<ul style="list-style-type: none"> <li>• coordination of inland shipping (the coordination of operation of vessels, planning and management of vessels during loading and unloading of cargoes, the coordination of crew members on the waterway, the coordination of the activities with other operational and business parts and partners in road and railway transport)</li> <li>• operational management of extraordinary incidents in inland shipping</li> <li>• analysis of inland shipping and receiving of decision making in the process of passenger and cargo transport</li> <li>• monitoring of the development of fuel prices in the foreign destinations because of supplying of fuels to vessels during voyage in abroad</li> <li>• elaboration of the documents for the remuneration of crew members and staffs of ports</li> <li>• deal with the complaints in inland shipping</li> <li>• use of information systems in inland shipping</li> <li>• coordination of management of inland shipping on the waterways at home and abroad</li> <li>• receiving and delivering of cargo that is transported by a vessel</li> <li>• keeping of the documentation of inland shipping operation</li> <li>• observance of safety and protection of health during work and fire protection</li> </ul>

<b>job position</b>	<b>dispatcher of transshipment point of inland shipping</b>
EQF level	4
Regulated permission	<ul style="list-style-type: none"> <li>• <b>Ministry of Transport, Post and Telecommunication skills of the Slovak Republic Decree No. 12/2005</b> Coll. on the qualification prerequisites, verification of professional competency, vessel crews and the captains of small vessels and the templates for the professional certificates for vessel crew members</li> </ul>

Practical training experience	<ul style="list-style-type: none"> <li>• at least 1 year</li> </ul>
General capabilities	<ul style="list-style-type: none"> <li>• analysis and solving of the problems</li> <li>• organisation and planning of work</li> <li>• decision making</li> <li>• self-reliant</li> <li>• digital literacy (computer competences)</li> <li>• information literacy</li> <li>• communication skills</li> <li>• communication in a foreign language</li> <li>• sophisticated writing skills</li> <li>• motivation of people</li> <li>• sophisticated word speech</li> <li>• personal development</li> <li>• flexibility in thinking</li> <li>• team work</li> <li>• bargaining</li> <li>• environmental literacy</li> <li>• financial literacy</li> <li>• physical fitness</li> <li>• technical literacy</li> <li>• leading of people</li> </ul>
Professional knowledge	<ul style="list-style-type: none"> <li>• structure and organisation of inland shipping</li> <li>• transport geography – waterways, railway and road network (navigation geography, railway and road network of the SR)</li> <li>• types of means of transport of inland water transport, road, railway and combined transport)</li> <li>• the regulations for the operation on water areas (the regulations of the Belgrade Agreement, the Bratislava Agreements and the Budapest Convention)</li> <li>• logistics in warehousing and supply management</li> <li>• the rules and procedures for loading, unloading and handling with transported cargo in ports (types of containers, their dimensions and weights, the principles of loading and fixing of cargoes in containers, stacking. The rules of loading, unloading and handling with dangerous cargoes)</li> <li>• procedures of storage and protection of all types of cargoes</li> <li>• methods of dispatch management of inland shipping</li> <li>• broadcasting, telecommunication, radio communication and other communication devices and systems</li> <li>• mass media and security techniques and systems</li> <li>• information systems in inland shipping</li> <li>• commercial relationships (knowledge about international commercial conditions - Incoterms 2010)</li> <li>• internal organisation directives – normative instructions, internal rules and norms,</li> </ul>

	<ul style="list-style-type: none"> <li>• knowledge of risks that threat health and the principles of safety during work</li> <li>• transport technologies (technologies in inland shipping)</li> <li>• types of transport documents in inland shipping (the documents of cargoes that are transported by inland shipping)</li> <li>• transport conditions of cargoes in inland shipping</li> <li>• devices and machines for transshipment of cargoes in ports (handling equipment and devices for transshipment of cargoes)</li> </ul>
<b>Professional competencies</b>	<ul style="list-style-type: none"> <li>• keeping of the documentation and agenda about transshipment of cargoes</li> <li>• use of information systems in inland shipping</li> <li>• processing of correspondence</li> <li>• operative solution of the situations that follow from transport of cargoes on the waterways and their transshipment in ports, coordination of transshipment and transport activities with commercial departments and dispatchers of water transport, orientation in transport documents, leading of evidence</li> <li>• coordination of transshipment and transport activities in inland shipping</li> <li>• operative solution of extraordinary incidents during transshipment of cargoes in ports</li> <li>• planning of transshipment jobs in inland shipping</li> <li>• determination of handling equipment and devices for transshipment of cargoes in ports (processing of the optimal types of handling equipment and devices for transshipment of cargoes in ports)</li> <li>• orientation in the cargo documents</li> <li>• monitoring and evaluation of the development trends in inland shipping</li> <li>• observance of rules of occupational safety and hygiene of labour</li> </ul>

<b>job position</b>	<b>Boatmaster</b>
EQF level	4
Regulated permission	<ul style="list-style-type: none"> <li>• <b>ACT 338 of 22 September 2000 on Inland Navigation</b> and on Amendments of some Acts</li> <li>• <b>Ministry of Transport, Post and Telecommunication skills of the Slovak Republic Decree No. 12/2005</b> Coll. on the qualification prerequisites, verification of professional competency, vessel crews and the captains of small vessels and the templates for the professional certificates for vessel crew members</li> </ul>
Practical training experience	<ul style="list-style-type: none"> <li>• at least 4 years according to <b>Act 338 of 22 September 2000 on Inland Navigation</b> and <b>Decree No. 12/2005</b></li> </ul>
General capabilities	<ul style="list-style-type: none"> <li>• <b>analysis and solving of the problems</b></li> <li>• decision making</li> <li>• self-reliant</li> <li>• leading of people</li> </ul>

	<ul style="list-style-type: none"> <li>• environmental literacy</li> <li>• physical fitness</li> <li>• information literacy</li> <li>• communication skills</li> <li>• communication in a foreign language</li> <li>• sophisticated writing skills</li> <li>• sophisticated word speech</li> <li>• organisation and planning of work</li> <li>• personal development</li> <li>• flexibility in thinking</li> <li>• technical literacy</li> <li>• team work</li> <li>• digital literacy (computer competences)</li> <li>• financial literacy</li> </ul>
Professional knowledge	<ul style="list-style-type: none"> <li>• the regulations for the operation on water areas</li> <li>• the rules and procedures for loading, unloading and handling with transported cargo in ports</li> <li>• observance of safety and protection of health during work and fire protection</li> <li>• methods and principles of shipbuilding, ship equipment and devices</li> <li>• technology of ship's repair and shipping technique</li> <li>• the manners of operation of technical aids and tools in the process of operation of a vessel</li> <li>• the manners of conducting of a vessel on the waterway</li> <li>• the manners of operation of board, mooring and anchor equipment of a vessel</li> <li>• rules of safe operation of a vessel</li> <li>• Navigation Geography (the basis of Navigation Geography, hydrological and hydro-meteorological information)</li> <li>• standardized procedures within the activities of a crew member of a vessel</li> <li>• the regulations which provide the issuing and interpretation of light and sound signals and monitoring of navigation lights during manoeuvring of a vessel</li> </ul>
<b>Professional competencies</b>	<ul style="list-style-type: none"> <li>• orientation in the standards and technical documentations of a vessel</li> <li>• control of safety of crew members and transported passengers</li> <li>• leading and operation of a small vessel</li> <li>• management and control of labour of crew members</li> <li>• leading of the documentation about operation of a vessel</li> <li>• steering of a vessel with its own propulsion</li> <li>• operation of board equipment and anchoring devices of an inland vessel of the higher class</li> </ul>

	<ul style="list-style-type: none"> <li>• use and operation of technical aids and tools during the securing of transport supervision</li> <li>• orientation in light and sound signalling in inland shipping</li> <li>• control of readiness of a vessel for inland navigation, passenger safety, transported cargoes, safety and fire equipment</li> <li>• orientation in the documents of cargoes that are transported by inland shipping</li> <li>• observance of safety and protection of health during work and fire protection</li> </ul>
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<b>job position</b>	<b>steersman of barge</b>
EQF level	4
Regulated permission	<ul style="list-style-type: none"> <li>• <b>ACT 338 of 22 September 2000 on Inland Navigation</b> and on Amendments of some Acts</li> <li>• <b>Ministry of Transport, Post and Telecommunication skills of the Slovak Republic Decree No. 12/2005</b> Coll. on the qualification prerequisites, verification of professional competency, vessel crews and the captains of small vessels and the templates for the professional certificates for vessel crew members</li> </ul>
Practical training experience	<ul style="list-style-type: none"> <li>• at least 2 years according to <b>Act 338 of 22 September 2000 on Inland Navigation</b> and <b>Decree No. 12/2005</b></li> </ul>
General capabilities	<ul style="list-style-type: none"> <li>• environmental literacy</li> <li>• physical fitness</li> <li>• manual dexterity</li> <li>• self-reliant</li> <li>• communication skills</li> <li>• communication in a foreign language</li> <li>• personal development</li> <li>• technical literacy</li> </ul>
Professional knowledge	<ul style="list-style-type: none"> <li>• the manners of management and operation of small vessels</li> <li>• the rules and procedures for loading, unloading and handling with transported cargo in ports</li> <li>• the regulations for the operation on water areas</li> <li>• observance of safety and protection of health during work and fire protection</li> <li>• the manners of operation of board, mooring and anchor equipment of a vessel</li> <li>• rules of safe operation of a vessel</li> <li>• standardized procedures within the activities of a crew member of a vessel</li> <li>• the manners of operation, maintenance and repair of mechanical equipment of vessels</li> <li>• the regulations for the operation on water areas</li> <li>• the rules and procedures for loading, unloading and handling with transported cargo in ports</li> </ul>

	<ul style="list-style-type: none"> <li>• observance of safety and protection of health during work and fire protection</li> <li>• methods and principles of shipbuilding, ship equipment and devices</li> <li>• technology of ship's repair and shipping technique</li> <li>• the manners of operation of technical aids and tools in the process of operation of a vessel</li> <li>• the manners of conducting of a vessel on the waterway</li> <li>• the manners of operation of board, mooring and anchor equipment of a vessel</li> <li>• rules of safe operation of a vessel</li> <li>• Navigation Geography (the basis of Navigation Geography, hydrological and hydro-meteorological information)</li> <li>• standardized procedures within the activities of a crew member of a vessel</li> <li>• the regulations which provide the issuing and interpretation of light and sound signals and monitoring of navigation lights during manoeuvring of a vessel</li> </ul>
<b>Professional competencies</b>	<ul style="list-style-type: none"> <li>• orientation in the standards and technical documentations of a vessel</li> <li>• control of safety of crew members and transported passengers</li> <li>• leading and operation of a small vessel</li> <li>• management and control of labour of crew members</li> <li>• leading of the documentation about operation of a vessel</li> <li>• steering of a vessel with its own propulsion</li> <li>• operation of board equipment and anchoring devices of an inland vessel of the higher class</li> <li>• use and operation of technical aids and tools during the securing of transport supervision</li> <li>• orientation in light and sound signalling in inland shipping</li> <li>• control of readiness of a vessel for inland navigation, passenger safety, transported cargoes, safety and fire equipment</li> <li>• orientation in the documents of cargoes that are transported by inland shipping</li> <li>• observance of safety and protection of health during work and fire protection</li> </ul>

<b>job position</b>	<b>ship's machine attendant</b>
EQF level	4
Regulated permission	<ul style="list-style-type: none"> <li>• <b>ACT 338 of 22 September 2000 on Inland Navigation</b> and on Amendments of some Acts</li> <li>• <b>Ministry of Transport, Post and Telecommunication skills of the Slovak Republic Decree No. 12/2005</b> Coll. on the qualification prerequisites, verification of professional competency, vessel crews and the captains of</li> </ul>



	small vessels and the templates for the professional certificates for vessel crew members
Practical training experience	<ul style="list-style-type: none"> <li>at least 3 years according to <b>Act 338 of 22 September 2000 on Inland Navigation</b> and <b>Decree No. 12/2005</b></li> </ul>
General capabilities	<ul style="list-style-type: none"> <li>analysis and solving of the problems</li> <li>physical fitness</li> <li>manual dexterity</li> <li>self-reliant</li> <li>technical literacy</li> <li>organisation and planning of work</li> <li>flexibility in thinking</li> <li>decision making</li> <li>leading of people</li> </ul>
Professional knowledge	<ul style="list-style-type: none"> <li>principles of operation, maintenance and repair of machinery equipment of inland vessels (main engine, auxiliary engine, compressors, pumps and another mechanical equipment of a vessel)</li> <li>standardized procedures within the activities of a captain, boatman, steersman of an inland vessel</li> <li>devices, preparation and measures in mechanical engineering</li> <li>drawing documentation in mechanical engineering</li> <li>electrical engineering</li> <li>parts of vessel engine and devices</li> <li>principles of operation of inland engine and devices</li> <li>Navigation Geography (the basis of Navigation Geography, hydrological and hydro-meteorological information)</li> </ul>
<b>Professional competencies</b>	<ul style="list-style-type: none"> <li>organisation of activities of mechanical crew members on a vessel</li> <li>control of technical condition of an inland vessel (steering equipment, signal system, lubrication, cooling, charging battery and manometer)</li> <li>leading of record keeping and agenda of an inland vessel</li> <li>orientation in the standards and technical documentations of a vessel</li> <li>operation, maintenance and repair of mechanical equipment of a vessel (operation, maintenance, arranging and repair of mechanical, electrical and electro technical devices of a vessel)</li> <li>use of appropriate measures and diagnostic devices</li> <li>preparation of a vessel and its devices for safe operation</li> </ul>

<b>job position</b>	<b>manager in inland water transport</b>
EQF level	7
Regulated permission	<ul style="list-style-type: none"> <li>this job position is not regulated by any legislation</li> </ul>

Practical training experience	<ul style="list-style-type: none"> <li>• at least 5 years</li> </ul>
General capabilities	<ul style="list-style-type: none"> <li>• analysis and solving of the problems</li> <li>• communication</li> <li>• cultivated verbal speech, self-expression</li> <li>• motivation of people</li> <li>• organisation and planning of work</li> <li>• decision making</li> <li>• self-reliant</li> <li>• leading of people</li> <li>• bargaining</li> <li>• digital literacy (computer competences)</li> <li>• environmental literacy</li> <li>• financial literacy</li> <li>• information literacy</li> <li>• communication in a foreign language</li> <li>• cultivated written language</li> <li>• mathematical literacy</li> <li>• personal development</li> <li>• presentation</li> <li>• flexibility in thinking</li> <li>• team work</li> <li>• creativity</li> </ul>
Professional knowledge	<ul style="list-style-type: none"> <li>• structure and organisation of inland water transport</li> <li>• transport conditions of passengers and cargoes in shipping</li> <li>• the regulations for the operation on water areas (the regulations of the Belgrade Agreement, the Bratislava Agreements and the Budapest Convention “CMMI” – they provide to the employee basic knowledge about organisation and management of the Danube navigation)</li> <li>• the manners and procedures of supervision in the field of water transport</li> <li>• the rules of the procedures and activities of statutory body of the organisation</li> <li>• legislation in the field of public procurement</li> <li>• legislation and basic terms in the field of budgeting and financing</li> <li>• procedures and rules of EU Funds Drawing</li> <li>• financial analysis and economic review</li> <li>• methods of evaluation of economic efficiency of investments and projects</li> <li>• marketing in the field of transport services, communication with clients</li> <li>• business relationships – INCOTERMS 2010</li> <li>• management</li> <li>• methods and procedures of planning of human resources</li> <li>• teambuilding</li> </ul>

	<ul style="list-style-type: none"> <li>• procedures how to organise the meetings</li> <li>• legislation and basic terms in the field of safety and protection of health during work and fire protection</li> <li>• internal organisation directives</li> <li>• risk knowledge that threaten health</li> <li>• information system in shipping</li> <li>• the manners of solving of emergency incidents in shipping</li> <li>• the manners and principles of use of transport passages and vessel operation</li> </ul>
<b>Professional competencies</b>	<ul style="list-style-type: none"> <li>• solving of process optimization</li> <li>• coordination of cooperation with other sections of the organisation</li> <li>• management of marketing strategy of the organisation (business management and marketing in shipping)</li> <li>• methodical management of work in the creation of the schedules, balances, budgets</li> <li>• management of subordinate employees and the cooperation on the creation of personal politics of the organisation</li> <li>• control in the field of safety and protection of health during work</li> <li>• providing of economy of water transport and other modes of transport, providing of the materials and business offers for carriers in water transport</li> <li>• coordination of transport and transshipment activities in shipping</li> <li>• management and job coordination in extraordinary incidents in inland shipping</li> <li>• coordination and management of the development of transport systems in inland shipping</li> <li>• elaboration of business and other indicators, results of transport activities of the organisation</li> <li>• use of information systems in inland shipping</li> <li>• cooperation with foreign inland shipping companies</li> <li>• observance of rules of occupational safety and hygiene of labour</li> <li>• management of the relationships with carriers</li> </ul>

<b>job position</b>	<b>technical specialist in inland water transport</b>
EQF level	7
Regulated permission	<ul style="list-style-type: none"> <li>• this job position is not regulated by any legislation</li> </ul>
Practical training experience	<ul style="list-style-type: none"> <li>• at least 3 years</li> </ul>
General capabilities	<ul style="list-style-type: none"> <li>• analysis and solving of the problems</li> <li>• self-reliant</li> <li>• technical literacy</li> <li>• digital literacy (computer competences)</li> <li>• financial literacy</li> <li>• information literacy</li> </ul>

	<ul style="list-style-type: none"> <li>• communication</li> <li>• communication in a foreign language</li> <li>• cultivated verbal speech, self-expression</li> <li>• motivation of people</li> <li>• organisation and planning of work</li> <li>• personal development</li> <li>• flexibility in thinking</li> <li>• decision making</li> <li>• team work</li> <li>• environmental literacy</li> <li>• manual dexterity</li> <li>• leading of people</li> <li>• bargaining</li> </ul>
Professional knowledge	<ul style="list-style-type: none"> <li>• rules of safe operation of a vessel</li> <li>• methods and principles of shipbuilding, ship machineries and equipment (the construction of vessels – the construction of the hull and the devices of a vessel)</li> <li>• the regulations for the operation on water areas</li> <li>• information systems in inland shipping</li> <li>• management (the methods and principles of management in the field of operation and maintenance of vessels)</li> <li>• knowledge of risks that threat health and the principles of safety during work</li> <li>• structure and organisation of inland shipping</li> <li>• methods, principles, technological procedures of operation and maintenance of vessels</li> <li>• technical regulations in inland shipping</li> <li>• control procedures in the field of operation and maintenance of a vessel</li> <li>• technical documentation of a vessel</li> <li>• constituent parts of vessels (machinery, mechanical, electrical and electronic equipment of vessels, their types and functions)</li> <li>• types of shipping documents</li> <li>• economics and operation of water transport</li> </ul>
<b>Professional competencies</b>	<ul style="list-style-type: none"> <li>• orientation in the standards and technical documentations of a vessel</li> <li>• use of information systems in inland shipping</li> <li>• management, organisation and coordination of the activities in the field of operation and maintenance of vessels (methodical management of technological and working procedures, process coordination of the purchase of materials, goods and services, organisation of activities and job content of crew members on a vessel)</li> <li>• control in the field of operation and maintenance of vessels (control of the observance of technical standards, technological</li> </ul>

	<p>procedures and operational processes in inland shipping, control of the observance of contract conditions in the material supplies / spare parts)</p> <ul style="list-style-type: none"><li>• providing of the control of technical condition of a vessel</li><li>• leading of the documentation in the field of operation and maintenance of a vessel</li><li>• arranging of the plans of maintenance and revisions of vessels</li><li>• validity control of shipping documents</li><li>• cooperation with crew members of a vessel, a technical expert of maintenance of inland shipping and machine attendants</li><li>• observance of rules of occupational safety and hygiene of labour</li></ul>
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reference: [http://www.sustavapovolani.sk/pracovna\\_oblast-27#sec-2-2](http://www.sustavapovolani.sk/pracovna_oblast-27#sec-2-2), 13 March 2017

## Annex 4: Job positions in Germany

<b>job position</b>	<b>Apprentice</b>
EQF level	VET act
Regulated permission	<ul style="list-style-type: none"> <li>• Regulations for Rhine Navigation Personnel (RPN), part 2, chapter 3, subsection 1, Article 3.02 Requirements, 2016</li> <li>• Verordnung über die Berufsausbildung zum Binnenschiffer/zur Binnenschifferin (BinSchAusbVO), Regulations on vocational training for inland navigation operators, 2005</li> <li>• Rahmenlehrplan für den Ausbildungsberuf Binnenschiffer/-in, Master plan of the apprenticeship for inland navigation operators, 2005</li> </ul>
Practical training experience	<p>RPN</p> <ul style="list-style-type: none"> <li>• not less than 15 years of age</li> <li>• have an apprentice's contract which provides for a training course in a professional college of inland navigation like Schiffer-Berufskolleg RHEIN or Berufsbildende Schule Schoenebeck ("Duale Ausbildung") or for a correspondence course recognised by the competent authority to be taken in the preparation of an equivalent diploma.</li> </ul>
General capabilities	<ul style="list-style-type: none"> <li>• satisfy the physical and mental fitness defined in annex B1, mentioned in Regulations for Rhine Navigation Personnel (RPN), part 2, chapter 3, subsection 1, Article 3.03</li> </ul>
Professional knowledge	<ul style="list-style-type: none"> <li>•</li> </ul>
<b>Professional competencies</b>	<ul style="list-style-type: none"> <li>•</li> </ul>

<b>job position</b>	<b>Boatman</b>
EQF level	4
Regulated permission	<ul style="list-style-type: none"> <li>• Regulations for Rhine Navigation Personnel (RPN), part 2, chapter 3, subsection 1, Article 3.02 Requirements, 2016</li> <li>• Verordnung über die Berufsausbildung zum Binnenschiffer/zur Binnenschifferin (BinSchAusbVo), Regulations on vocational training for inland navigation operators, 2005</li> <li>• Rahmenlehrplan für den Ausbildungsberuf Binnenschiffer/-in, Master plan of the apprenticeship for inland navigation operators, 2005</li> </ul>
Practical training experience	<ul style="list-style-type: none"> <li>• not less than 17 years of age and             <ul style="list-style-type: none"> <li>○ have successfully completed the training course referred to in the line above "Apprentice: Practical training experience" (-&gt; Duale Ausbildung), or</li> <li>○ have passed an examination on completing a training course in a professional college of inland navigation, or</li> <li>○ have passed another boatman's examination recognised by the competent authority, or</li> </ul> </li> </ul>

	<ul style="list-style-type: none"> <li>○ have qualified as a boatman within the meaning of an administrative Arrangement concerning the mutual recognition of the qualification as boatman obtained by means of professional training</li> </ul> <p>or</p> <ul style="list-style-type: none"> <li>● not less than 19 years of age and <ul style="list-style-type: none"> <li>○ have sailed as part of a deck crew for not less than three years, including not less than one year in inland navigation and two years either in inland navigation or maritime, coastal or fishing navigation</li> </ul> </li> </ul>
General capabilities	<ul style="list-style-type: none"> <li>● Strives for indecency and quality of work</li> <li>● Accurate</li> <li>● Able to cope with stress/time pressure</li> <li>● Solution oriented</li> <li>● Communication</li> <li>● Integrity and discreet</li> <li>● Positive</li> <li>● Flexible towards other crewmembers</li> <li>● Able to watch their own physical and mental boundaries</li> <li>● Mooring/unmooring of vessels</li> <li>● Anchoring the vessel</li> <li>● Sailing under supervision</li> <li>● Provides instructions from bow or stern</li> <li>● Makes the ship ready to sail</li> <li>● Prepares the ship for un/loading)</li> <li>● Is able to (un)load the vessel</li> <li>● performs maintenance and mechanical activities onboard</li> <li>● Stays and works onboard</li> <li>● Responds and acts in case of calamity</li> <li>● Takes care of the household</li> <li>●</li> </ul>
Professional knowledge	<ul style="list-style-type: none"> <li>● Has basic knowledge of the relevant nautical laws and regulations</li> <li>● Has basic knowledge of topography and routes in Western Europe.</li> <li>● Has basic knowledge of Health and Safety laws and regulations.</li> <li>● Has basic knowledge of cargo characteristics</li> <li>●</li> </ul>
<b>Professional competencies</b>	<ul style="list-style-type: none"> <li>● Is able to steer the rescue boat</li> <li>● Is able to apply the correct technique for (un)mooring</li> <li>● Is able to use different communication equipment</li> <li>● Is able to use and understand jargon</li> <li>● Is able to use nautical hand signals</li> <li>● Is able to use hydrographic and electronic aids</li> <li>● Is able to use (personal) safety and rescue equipment</li> <li>● Is able to use equipment and accessories (amongst other for (un)loading)</li> </ul>

	<ul style="list-style-type: none"> <li>• Is able to handle and fill in checklists</li> <li>• Is able to explain and run emergency plan</li> <li>• Is able to apply safety regulations</li> <li>• Is able to show the propulsion and navigational possibilities</li> <li>• Is able to use anchoring methods</li> <li>• Is able to use firefighting techniques</li> <li>• Is able to apply optical signals</li> <li>• Estimates distances well</li> <li>• Is able to conduct a simple conversation in English and German with personnel about (un)loading the vessel</li> <li>• Is understandable during (un)loading in simple English</li> <li>• Prepares a meal</li> <li>• Is able to use automation systems for ship administration</li> <li>• Uses painting- and cleaning means and methods</li> <li>• Handles techniques for maintenance</li> <li>• Explains technical systems</li> <li>• Operates household appliance</li> <li>• Operates lifting equipment</li> <li>• Works hygienically</li> <li>• Is able to explain a stability plan</li> </ul>
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<b>job position</b>	<b>Engine minder</b>
EQF level	4
Regulated permission	<ul style="list-style-type: none"> <li>• Regulations for Rhine Navigation Personnel (RPN), part 2, chapter 3, subsection 1, Article 3.02, 2016</li> </ul>
Practical training experience	<p>RPN</p> <ul style="list-style-type: none"> <li>• be a qualified boatman and have passed an engine-minder examination recognised by the competent authority;</li> <li>or</li> <li>• have accumulated not less than one year's navigation time as a boatman on board a motorised inland navigation vessel and have a basic knowledge of engines</li> </ul>
General capabilities	<ul style="list-style-type: none"> <li>• satisfy the physical and mental fitness defined in annex B1, Regulations for Rhine Navigation Personnel (RPN), mentioned in part 2, chapter 3, subsection 1, Article 3.03</li> </ul>
Professional knowledge	<ul style="list-style-type: none"> <li>•</li> </ul>
<b>Professional competencies</b>	<ul style="list-style-type: none"> <li>•</li> </ul>

<b>job position</b>	<b>Able boatsman</b>
EQF level	4
Regulated permission	<ul style="list-style-type: none"> <li>• Regulations for Rhine Navigation Personnel (RPN), part 2, chapter 3, subsection 1, Article 3.02, 2016</li> </ul>



	<ul style="list-style-type: none"> <li>• Verordnung über die Berufsausbildung zum Binnenschiffer/zur Binnenschifferin (BinSchAusbVo), Regulations on vocational training for inland navigation operators, 2005</li> <li>• Rahmenlehrplan für den Ausbildungsberuf Binnenschiffer/-in, Master plan of the apprenticeship for inland navigation operators, 2005</li> </ul>
Practical training experience	<p>RPN</p> <ul style="list-style-type: none"> <li>• have accumulated not less than one year's navigation time in inland navigation as a boatman and <ul style="list-style-type: none"> <li>○ have successfully completed the training course referred to in the line above "Apprentice: Practical training experience" (-&gt; Duale Ausbildung), or</li> <li>○ have passed another final examination at a professional college of inland navigation, or</li> <li>○ have passed another boatman's examination recognised by the competent authority</li> <li>○</li> </ul> </li> </ul> <p>or</p> <ul style="list-style-type: none"> <li>• have successfully completed the training course referred to in the line above "Apprentice: Practical training experience" (-&gt; Duale Ausbildung) of a duration of not less than three years or have passed a final examination following training of not less than three years in a professional college of inland navigation provided the training course includes not less than one year's navigation time in inland navigation</li> </ul> <p>or</p> <ul style="list-style-type: none"> <li>• have accumulated not less than one year's navigation time in inland navigation as a boatman within the meaning of RPN, article 3, (3) (b) (see above: boatman, Practical Training experience: "not less than 19 years of age and ...") and</li> <li>• have passed a practical examination in accordance with RPN, Annex D7, 3.1</li> </ul> <p>or</p> <ul style="list-style-type: none"> <li>• have accumulated not less than two years' navigation time in inland navigation as a boatman within the meaning of RPN, article 3, (3) (b) (see above: boatman, Practical Training experience: "not less than 19 years of age and ...").</li> </ul>
General capabilities	<ul style="list-style-type: none"> <li>• satisfy the physical and mental fitness defined in annex B1, Regulations for Rhine Navigation Personnel (RPN), mentioned in part 2, chapter 3, subsection 1, Article 3.03</li> </ul>
Professional knowledge	<ul style="list-style-type: none"> <li>• see boatman</li> </ul>
<b>Professional competencies</b>	<ul style="list-style-type: none"> <li>• see boatman</li> </ul>

<b>job position</b>	<b>Helmsman</b>
EQF level	4
Regulated permission	<ul style="list-style-type: none"> <li>• Regulations for Rhine Navigation Personnel (RPN), part 2, chapter 3, subsection 1, Article 3.02, 2016</li> <li>• Binnenschiffer Patentverordnung (BinSchPatentV) (Regulations for Inland Waterways Certificates)</li> </ul>
Practical training experience	<p>RPN</p> <ul style="list-style-type: none"> <li>• have accumulated not less than one year's navigation time in inland navigation as an able boatman or</li> <li>• not less than three years' experience as a boatman within the meaning of RPN, article 3, (3) (b) (see above: boatman, Practical Training experience: "not less than 19 years of age and ...");</li> </ul> <p>or</p> <ul style="list-style-type: none"> <li>• hold a boatmaster's certificate issued under Directive 96/50/EC or a boatmaster's certificate mentioned in Annex 1 of Directive 91/672/EEC;</li> </ul> <p>or</p> <ul style="list-style-type: none"> <li>• have accumulated four years' navigation time in inland navigation and hold a boatmaster's certificate recognised as being equivalent to the Rhine boatmaster's certificate class.</li> </ul>
General capabilities	<ul style="list-style-type: none"> <li>• satisfy the physical and mental fitness defined in annex B1, Regulations for Rhine Navigation Personnel (RPN), mentioned in part 2, chapter 3, subsection 1, Article 3.03</li> </ul>
Professional knowledge	<ul style="list-style-type: none"> <li>• see boatman</li> </ul>
<b>Professional competencies</b>	<ul style="list-style-type: none"> <li>• see boatman</li> </ul>

<b>job position</b>	<b>Boatmaster</b>
EQF level	4
Regulated permission	<ul style="list-style-type: none"> <li>• Regulations for Rhine Navigation Personnel (RPN), part 2, chapter 3, subsection 1, Article 3.02, 2016</li> <li>• Binnenschiffer Patentverordnung (BinSchPatentV) (Regulations for Inland Waterways Certificates)</li> </ul>
Practical training experience	<ul style="list-style-type: none"> <li>• qualified, that is to say possesses the necessary professional know-how and knowledge, including both nautical knowledge and a knowledge of the regulations and of the waterway. Qualification is proved by passing an examination set to establish this fact:</li> <li>• hold either a Rhine boatmaster's certificate issued in accordance with the regulations of RPN or</li> <li>• a boatmaster's certificate recognised as being equivalent by the CCNR, for the type and size of vessel in question, as well as for the sector to be travelled through, in accordance with article 6.02 of RPN;</li> </ul>

	<ul style="list-style-type: none"> <li>• not less than 21 years of age (for the Rhine boatmaster's certificate Class 1 and Class 2)</li> <li>• limited radiotelephone certificate (VHF-Inland navigation radio (UBI), see RAINWAT)</li> <li>• must prove having put in four years (certificate Class 1)/three years (certificate Class 2) navigation time as a member of the deck crew, of which not less than two years in inland navigation as a boatman or engine-minder or not less than one year as an able boatman. The navigation time must have been served aboard motorised vessels, the skippering of which requires the Rhine boatmaster's certificate Class 1 or Class 2.</li> <li>• physically and mentally fit to be the boatmaster of a vessel. Physical and mental fitness must be proven by a medical certificate issued in accordance with RNP, annexes B1 and B2 by a doctor recognised by the competent authority</li> <li>• has not committed any navigating offences, if his previous conduct provides grounds to presume the reliable skippering of a vessel and if he is competent to command a crew</li> <li>• Irrespective of the type of boatmaster's certificate in question, specific sector knowledge is also required for defined sectors</li> </ul> <p>For special tasks are special certificates required</p> <ul style="list-style-type: none"> <li>• Radar patent (RPN, article 6.03), only if radar navigation is targeted</li> <li>• Certificate Transport of dangerous goods by Inland Waterways (ADN), only if transportation of dangerous goods is targeted</li> <li>• Certificates for safety personnel on passenger vessels</li> <li>• Attestation of expertise in the use of liquefied natural gas (LNG) as a fuel</li> </ul>
General capabilities	<ul style="list-style-type: none"> <li>• Strives for independency and quality of work</li> <li>• Accurate</li> <li>• Able to cope with stress/time pressure</li> <li>• Solution oriented</li> <li>• Communication</li> <li>• Integrity and discreet</li> <li>• Positive</li> <li>• Flexible towards other crewmembers</li> <li>• Able to watch their own physical and mental boundaries</li> <li>• Gives leadership and functions as an example for the crew</li> <li>• Takes responsibility and is capable and is daring to take difficult decisions</li> <li>• Mooring/unmooring of vessels</li> <li>• Anchoring the vessel</li> <li>• Sailing under supervision</li> <li>• Provides instructions from bow or stern</li> <li>• Makes the ship ready to sail</li> <li>• Prepares the ship for un/loading)</li> </ul>

	<ul style="list-style-type: none"> <li>• Is able to (un)load the vessel</li> <li>• performs maintenance and mechanical activities onboard</li> <li>• Stays and works onboard</li> <li>• Responds and acts in case of calamity</li> <li>• Takes care of the household</li> <li>• Navigate on European inland waterways</li> <li>• Plans loading and unloading</li> <li>• Plans general mechanical maintenance and repair</li> <li>• Takes care of the ships administration</li> <li>• Takes care of the cargo-administration</li> <li>• Monitors supplies and orders goods and services.</li> <li>• Distributes work among crewmembers</li> <li>• Instructs crew on safety and changing laws and regulations</li> <li>• Guides crewmembers</li> </ul>
Professional knowledge	<ul style="list-style-type: none"> <li>• Has knowledge of the relevant nautical laws and regulations</li> <li>• Has knowledge of topography and routes in Europe.</li> <li>• Has knowledge of Health and Safety laws and regulations.</li> <li>• Has knowledge of cargo characteristics</li> <li>• Has knowledge of regulations regarding to the radar</li> <li>• Knows how to operate the radar (if radar Patent is required)</li> <li>• Has knowledge of (personal) safety and rescue equipment</li> <li>• Has knowledge of techniques for mechanical maintenance</li> <li>• Has knowledge of techniques for general maintenance</li> <li>• Knows ordering procedures</li> <li>• Knows guidelines of personnel management and guidance</li> </ul>
<b>Professional competencies</b>	<ul style="list-style-type: none"> <li>• Is able to steer the rescue boat</li> <li>• Is able to apply the correct technique for (un)mooring and to (dis)connect push/barge combinations</li> <li>• Is able to use different communication equipment</li> <li>• Is able to use and understand jargon</li> <li>• Is able to use nautical hand signals</li> <li>• Is able to use hydro graphic and electronic aids</li> <li>• Is able to use (personal) safety and rescue equipment</li> <li>• Is able to use equipment and accessories (amongst other for (un)loading)</li> <li>• Is able to handle and fill in checklists</li> <li>• Is able to explain and run emergency plan</li> <li>• Is able to apply safety regulations</li> <li>• Is able to show the propulsion and navigational possibilities</li> <li>• Is able to use anchoring methods</li> <li>• Is able to use firefighting techniques</li> <li>• Is able to apply optical signals</li> <li>• Estimates distances well</li> <li>• Is able to conduct a simple conversation in English and German with personnel about (un)loading the vessel</li> </ul>

	<ul style="list-style-type: none"> <li>• Is understandable during (un)loading in simple English</li> <li>• Prepares a meal</li> <li>• Is able to use automation systems for ship administration</li> <li>• Uses painting- and cleaning means and methods</li> <li>• Handles techniques for maintenance</li> <li>• Explains technical systems</li> <li>• Operates household appliance</li> <li>• Operates lifting equipment</li> <li>• Works hygienically</li> <li>• Is able to explain a stability plan</li> <li>• Applies the regulations of the VHF certificate</li> <li>• Explains nautical circumstances</li> <li>• Explains technical systems</li> <li>• Is, for the purpose of maritime communication, able to listen and have a conversation in English and German</li> <li>• Is able to, for the purpose of (un)loading the vessel, practise English and German language skills</li> <li>• Is able to use automation systems for cargo administration</li> <li>• Is able to use automation systems for supply administration</li> <li>• Reads cargo papers</li> <li>• Delegates activities</li> <li>• Gives instructions</li> </ul>
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<b>job position</b>	<b>Engineer</b>
EQF level	4
Regulated permission	<ul style="list-style-type: none"> <li>• Regulations for Rhine Navigation Personnel (RPN), part 2, chapter 3, subsection 1, Article 3.02, 2016</li> </ul>
Practical training experience	<p>RPN</p> <ul style="list-style-type: none"> <li>• not less than 18 years of age and</li> <li>• have passed an examination on completion of a full training course of study in the engine and mechanics sectors;</li> </ul> <p>or</p> <ul style="list-style-type: none"> <li>• not less than 19 years of age and</li> <li>• have worked for not less than two years as an engineminder on a motorised inland navigation vessel.</li> </ul>
General capabilities	<ul style="list-style-type: none"> <li>• satisfy the physical and mental fitness defined in annex B1, Regulations for Rhine Navigation Personnel (RPN), mentioned in part 2, chapter 3, subsection 1, Article 3.03</li> </ul>
Professional knowledge	<ul style="list-style-type: none"> <li>•</li> </ul>
<b>Professional competencies</b>	<ul style="list-style-type: none"> <li>•</li> </ul>