

**MINISTRY OF EDUCATION AND SCIENCE OF UKRAINE**  
**«Marinesko Maritime Professional College Separate Subdivision of National**  
**University «Odessa Maritime Academy»**

**“APPROVED” BY**  
Pedagogical Council of Maritime College  
named after O.I. Marinesko  
Report № 2  
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Head of the College  
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**THE CONCEPT OF EDUCATIONAL PROGRAMM**  
**for the training of foreign students and stateless persons**  
**in accredited specialities**  
**of «Marinesko Maritime Professional College Separate**  
**Subdivision of National University «Odessa Maritime**  
**Academy»**

**Odesa 2025**

## 1. GENERAL REGULATIONS

The concept of educational program of training for foreign students and the extramural form of education students at the separate structural unit “Maritime College named after O.I. Marinesko National University “Odesa Maritime Academy” (here and after referred to as college) defines strategic foundations, goals, principles and priority areas for the development of the educational process aimed at training highly qualified specialists in the maritime industry in accordance with the requirements of the national education system of Ukraine and the international standards of the International Maritime Organization (IMO).

The concept is based on the assumption that the main goal of training foreign students at the college is to participate in the international education market, increase the prestige of Ukrainian education in general, and college education in particular. Like all leading educational institutions around the world, the college aims to exchange students and teachers with foreign educational institutions. Training specialists for foreign countries should bring both moral (prestige, image) and material (business connections, training contracts, etc.) benefits to the college.

In the independent Ukrainian state, the college's authority is growing. It continues to play an important role in training specialists to meet the personnel needs of the maritime industry, both in Ukraine and abroad.

The concept regulates the organization and content of the educational process, the methodological work of teachers of specialized and auxiliary disciplines, and provides a set of measures to ensure the well-being, leisure, and safety of foreign students, aimed at their further improvement.

College is a separate structural unit of National University “Odesa Maritime Academy” based on state ownership and subordinate to the Ministry of Education of Ukraine.

The college provides training for an educational and professional degree of junior bachelor based on complete secondary education in intramural and extramural forms of education according to educational and professional programs:

1. Speciality: J5 Maritime and inland water transport  
Specialization: J5.01 Navigation and Seagoing Ship’s Handling  
Educational and professional program: «Navigation and Seagoing Ship’s Handling»

List of educational components of the educational and professional training program for junior bachelor's degrees based on complete secondary education

Code of e/c	Educational components of the OER (academic disciplines, course projects (works), internships, certification of applicants for higher professional education, etc.)	Number of ECTS credits	Form of final assessment
<b>Compulsory educational components of the OER</b>			
<b>Compulsory educational components that form general competencies</b>			
EC1	History of Ukraine	2	Assessment
EC2	Profession-focused Ukrainian language	2	Exam
EC3	Fundamentals of Philosophy (Philosophy, religious studies)	2	Assessment
EC4	Sociology	2	Assessment
EC5	Fundamentals of Legal Studies	2	Assessment
EC6	Fundamentals of Economic Theory	2	Assessment
EC7	Cultural studies	2	Assessment
EC8	Profession-focused English language	6	Exam
EC9	Physical Training	5	Assessment
EC10	Math	5	Exam
EC11	Physics and Fundamentals of Technical Mechanics	6	Assessment
EC12	Fundamentals of Ecology and Environmental Protection	2	Assessment

EC13	Electrotechnology, Radio Engineering and Electronics	4	Assessment
EC14	Information Technologies	4	Assessment
EC15	Descriptive Geometry and Engineering Graphics	3	Assessment
<b>Compulsory educational components that form professional competencies</b>			
EC16	Meteorology and Oceanography	3	Assessment
EC17	Navigation and Pilotage	8	Exam Course project
EC18	Nautical Astronomy	3	Assessment
EC19	Radio Navigation Aids and Systems	3	Assessment
EC20	Electronic Navigation Equipment	3	Assessment
EC21	Ship Handling	7	Assessment
EC22	Use of Radar and Automatic Radar Plotting Aids for Ships' Divergence	4	Assessment
EC23	Cargo Transportation Technology	3	Assessment Course project
EC24	Commercial Ship Operation	2	Assessment
EC25	Theory and Ship Construction	5	Exam
EC26	Navigation Information Systems	2	Assessment
EC27	Navigational Watchkeeping Practice	2	Assessment
EC28	Maritime Safety and Security	5	Assessment
EC29	Fundamentals of Labour Protection and Labour Protection in the Industry	3	Exam
EC30	Maritime Law	2	Assessment
EC31	Marine Recourse Management	2	Assessment
EC32	Global Maritime Distress and Safety System	4	Assessment
EC33	Ocean Routes for the World	2	Assessment
EC34	Marine Power Plants and Ship Electrical Equipment	2	Assessment
EC35	Practice training (Shipboard Training) **	47	Assessment
EC36	Attestation	1	
<b>Total</b>		<b>162</b>	
Unified State Qualification Examination			
<b>Selective educational components of the OER</b> <b>(at the discretion of the applicant for higher professional education) ***</b>			
SEC1. 1	Practice Training (Shipboard Training on a ship by type) **	0-18	Assessment
SEC1. 2 SEC1. 3 .....	Optional educational components ***	0-18	
<b>Total</b>		<b>18</b>	
<b>Total number</b>		<b>180</b>	

\*\* ) Practical training in accordance with the requirements of the International Convention on Standards of Training, Certification and Watchkeeping for Seafarers, 1978, as amended. The type of internship, type of vessel, and internship program are determined at the discretion of the applicant for higher professional education.

\*\*\* ) The applicant chooses elective educational components from the list of elective academic disciplines approved by the college's pedagogical council.

The workload is determined in credits of the European Credit Transfer and Accumulation System (ECTS). 1 ECTS credit contains 30 hours of academic work. The distribution of the total amount of study load by types of educational work is specified in the curriculum and working curriculum.

2. Speciality: J5 Maritime and inland water transport,  
 Specialization: J5.02 Ship's Engineering Systems and Complexes Operation and Management;  
 Educational and professional program: «Ship's Engineering Systems and Complexes Operation and Management»

List of educational components of the educational and professional training program for junior bachelor's degrees based on complete secondary education

Code of e/c	Educational components of the OER (academic disciplines, course projects (works), internships, certification of applicants for higher professional education, etc.)	Number of ECTS credits	Form of final assessment
<b>Compulsory educational components of the OER</b>			
<b>Compulsory educational components that form general competencies</b>			
EC1	History of Ukraine	2	Exam
EC2	Fundamentals of Legal Studies	2	Assessment
EC3	Fundamentals of Economic Theory	2	Assessment
EC4	Cultural Studies	2	Assessment
EC5	Fundamentals of Philosophy (Philosophy, religious studies)	2	Assessment
EC6	Sociology	2	Assessment
EC7	Profession-focused Ukrainian language	2	Exam
EC8	Profession-focused English language	6	Assessment
EC9	Physical Training	5	Assessment
EC10	Math	3	Exam
EC11	Physics	2	Exam
EC12	Engineering Mechanics (Classical Mechanics, Strength of Materials, Machine Components)	5	Assessment Course project
EC13	Descriptive Geometry and Engineering Graphics	3	Assessment
EC14	Fundamentals of Technical Thermodynamics and Heat Transmission	3	Assessment
EC15	Fundamentals of Hydromechanics	2	Assessment
EC16	Fundamentals of Ecology	2	Assessment
EC17	Electrotechnology and Fundamentals of Electronics	5	Exam
EC18	Theory, Ship construction and Thrusters	3	Assessment
EC19	Strenght of Materials	2	Assessment
EC20	Fundamentals of Automatics	2	Assessment
EC21	Information Technologies	4	Assessment
<b>Compulsory educational components that form professional competencies</b>			
EC22	Maritime Safety and Security	4	Assessment
EC23	Marine Diesel Enstallations	7	Exam Course project
EC24	Marine Auxiliary Machinery, Units and Associated Systems	7	Assessment
EC25	Marine Boiler Plants	3	Assessment
EC26	Marine Power Plants Automation	2	Assessment
EC27	Electrical equipment of ships	7	Exam
EC28	Fundamentals of Labour Protection and Labour Protection in the Industry	3	Exam
EC29	Maritime Recource Management	2	Assessment
EC30	Marine Turbine Plants	2	Assessment

EC31	Maintenance and Repairs of Ship Technical Units	2	Assessment
EC32	Ship Machinery Operation and Safe Watch Keeping Procedures	3	Assessment
EC33	Marine Refrigerating Plants	2	Assessment
EC34	Industrial Chemistry	2	Assessment
EC35	Metrology, standardization and quality systems	3	Assessment
EC36	Ship Cargohandling Equipment and Deck Machinery	2	Assessment
EC37	Use of Substances	2	Assessment
EC38	Maritime Regulations	2	Assessment
EC39	Practice Training (Technological)**	14	Assessment
EC40	Practice training (Onboard) **	31	Assessment
EC41	Attestation	1	
<b>Total</b>		<b>162</b>	
Unified State Qualification Examination			
<b>Selective educational components of the OER (at the discretion of the applicant for higher professional education) ***</b>			
SEC1.1	Practice training (Onboard Practice on a ship by type) **	0-18	Assessment
SEC1.2	Optional educational components ***	0-18	
SEC1.3			
.....			
<b>Total</b>		<b>18</b>	
<b>Total number</b>		<b>180</b>	

\*\* ) Practical training in accordance with the requirements of the International Convention on Standards of Training, Certification and Watchkeeping for Seafarers, 1978, as amended. The type of internship, type of vessel, and internship program are determined at the discretion of the applicant for higher professional education.

\*\*\* ) The applicant chooses elective educational components from the list of elective academic disciplines approved by the college's pedagogical council.

The workload is determined in credits of the European Credit Transfer and Accumulation System (ECTS). 1 ECTS credit contains 30 hours of academic work. The distribution of the total amount of study load by types of educational work is specified in the curriculum and working curriculum.

### 3. Speciality: J5 Maritime and inland water transport

Specialization: J5.05 Transport Technology (Sea and River Transport)

Educational and professional program: «Transport Technology (Sea and River Transport)»

List of educational components of the educational and professional training program for junior bachelor's degrees based on complete secondary education

Code of e/c	Educational components of the OER (academic disciplines, course projects (works), internships, certification of applicants for higher professional education, etc.)	Number of ECTS credits	Form of final assessment
<b>Compulsory educational components of the OER</b>			
<b>Compulsory educational components that form general competencies</b>			
EC1	History of Ukraine*	2	Assessment
EC2	Ukrainian Language(occupational orientation)*	2	Exam
EC3	Fundamentals of Philosophy (Philosophy, religious studies)	2	Assessment
EC4	Sociology	2	Assessment
EC5	Political Science	2	Assessment
EC6	Fundamentals of Legal Studies	2	Assessment

EC7	Basics of Economic Theory	2	Assessment
EC8	Cultural Studies	2	Assessment
EC9	Profession-focused English language	6	Assessment
EC10	Physical Training	5	Assessment
EC11	Math	3	Exam
EC12	Industrial Chemistry	2	Assessment
EC13	Physics and Fundamentals of Technical Mechanics	5	Assessment
EC14	Descriptive Geometry and Engineering Graphics	3	Assessment
EC15	Fundamentals of Electronics	3	Assessment
EC16	Computers and Programming	6	Assessment
EC17	General Course of Transportation	6	Exam
EC18	Ship Theory and Construction	3	Assessment
EC19	Fundamentals of Finances and Accounting	2	Assessment
EC20	Maritime Law	2	Assessment
EC21	Fundamentals of Ecology	2	Assessment
EC22	Health and Safety Training Course	2	Assessment
EC23	Geography of Marine Transport	2	Assessment
<b>Compulsory educational components that form professional competencies</b>			
EC24	Sea Ports Organization	5	Assessment
EC25	Cargo Work	6	Exam
EC26	Technology, Organization and Planning of Cargo Handling	10	Exam
EC27	Organization of Shipping in Marine Transport	9	Assessment
EC28	Commercial Work in Sea Transport	10	Exam
EC29	Economics of Sea Transport	7	Assessment
EC30	Fundamentals of Management	4	Assessment
EC31	Information Technologies	4	Assessment
EC32	Fundamentals of Sea Navigation	3	Assessment
EC33	Port Handling Machinery	5	Assessment
EC34	Fundamentals of Labour Protection and Labour Protection in the Industry	4	Exam
EC35	Practice Training (Educational)	8	Assessment
EC36	Practice Training (Technological)	9	Assessment
EC37	Practice Training (Pre-graduation)	4	Assessment
EC38	Diploma Project Design	5	Defense
EC39	Attestation	1	
<b>Total</b>		<b>162</b>	
Thesis project defense			
<b>Selective educational components of the OER (at the discretion of the applicant for higher professional education) ***</b>			
SEC1.1	Practice Training (Technological Practice for a Specific Area of Transport and Handling Services) **	0-18	Assessment
SEC1.2	Optional educational components ***	0-18	
SEC1.3			
.....			
<b>Total</b>		<b>18</b>	
<b>Total number</b>		<b>180</b>	

\*\*) Practical training in accordance with the requirements of the comprehensive practical training program approved at the meeting of the circular commission for exploitation disciplines.

The type of practical training for a specific area of transportation and transshipment services and the practical training program are determined at the discretion of the applicant for higher professional education.

The workload is determined in credits of the European Credit Transfer and Accumulation System (ECTS). 1 ECTS credit contains 30 hours of academic work. The distribution of the total amount of study load by types of educational work is specified in the curriculum and working curriculum.

4. Speciality: G11 Mechanical Engineering

Specialization: G11.03 Operation of Mechanical and Automated Reloading

Educational and professional program: «Operation of Mechanical and Automated Reloading»

List of educational components of the educational and professional training program for junior bachelor's degrees based on complete secondary education

Code of e/c	Educational components of the OER (academic disciplines, course projects (works), internships, certification of applicants for higher professional education, etc.)	Number of ECTS credits	Form of final assessment
<b>Compulsory educational components of the OER</b>			
<b>Compulsory educational components that form general competencies</b>			
EC1	History of Ukraine	2	Assessment
EC2	Fundamentals of Philosophy (Philosophy, religious studies)	2	Assessment
EC3	Politolology	2	Assessment
EC4	Fundamentals of Legal Studies	2	Assessment
EC5	Sociology	2	Assessment
EC6	Fundamentals of Economic Theory	2	Assessment
EC7	Cultural studies	2	Assessment
EC8	Profession-focused Ukrainian language	2	Exam
EC9	Profession-focused English language	6	Assessment
EC10	Physical Training	5	Assessment
EC11	Math	3	Exam
EC12	Physics	2	Assessment
EC13	Descriptive Geometry and Engineering Graphics	5	Assessment
EC14	Technical Mechanics (Theoretical Mechanics, Strength of Materials, Machine Parts)	7	Exam Course project
EC15	Strength of Materials	4	Assessment
EC16	Metrology, Standartization and Quality System	4	Assessment
EC17	Engineering Thermodynamics and Hydraulics	5	Assessment
EC18	Electrical engineering	5	Exam
EC19	Information Technologies	3	Assessment
EC20	Ecology	2	Assessment
EC21	Health and Safety Training Course	2	Assessment
EC22	Industrial Chemistry	2	Assessment
EC23	Fundamentals of Electronics	2	Assessment
EC24	Ship Theory and Construction	3	Assessment
<b>Compulsory educational components that form professional competencies</b>			
EC25	Port Handling Machinery	10	Exam Course project
EC26	Internal Combustion Engines of Port Handling Machinery	5	Assessment
EC27	Hydraulic and Pneumatic Drive of Port Handling Machinery	5	Assessment
EC28	Operation, Repairs and Mounting of Port Handling Machinery	8	Exam

EC29	Electrical Equipment of Port Handling Machinery	10	Exam Course project
EC30	Technology and Mechanization of Cargo Handling	7	Assessment
EC31	Means of Automation of Port Handling Machinery	6	Assessment
EC32	Microprocessor Engineering	5	Assessment
EC33	Fundamentals of Labour Protection and Labour Protection in the Industry	4	Exam
EC34	Sea Ports Organization	5	Assessment
EC35	Practice Training (In Workshops)	8	Assessment
EC36	Practice Training (Technological)	3	Assessment
EC37	Practice Training (Pre-graduation)	4	Assessment
EC38	Defence of the Diploma Project	5	Defense
EC39	Attestation	1	Defense
<b>Total</b>		<b>162</b>	
<b>Selective educational components of the OER (at the discretion of the applicant for higher professional education) ***</b>			
SEC1.1	Practice Training (for specific ports, terminals, and certain types of transshipment machinery) **	0-18	Assessment
SEC1.2 SEC1.3 .....	Optional educational components ***	0-18	
<b>Total</b>		<b>18</b>	
<b>Total number</b>		<b>180</b>	

\*\*) The type of internship, specific ports, terminals, certain types of transshipment machines, and the internship program are determined at the discretion of the applicant for higher professional education.

\*\*\*) The applicant chooses elective educational components from the list of elective academic disciplines approved by the college's pedagogical council.

The workload is determined in credits of the European Credit Transfer and Accumulation System (ECTS). 1 ECTS credit contains 30 hours of academic work. The distribution of the total amount of study load by types of educational work is specified in the curriculum and working curriculum.

## 2. GOALS, OBJECTIVES, AND PRINCIPLES

### OF EDUCATIONAL PROGRAMMES

The main goal of educational program is to develop professional competencies, professional culture, and moral and ethical qualities necessary for effective work in maritime transport, ensuring the safety of navigation, protecting human life at sea, and protecting the marine environment.

Main objectives:

- ensuring high-quality professional training in accordance with the international requirements of the STCW Convention;
  - development of practical skills for students;
  - development of critical thinking, leadership, and communication skills;
  - training competitive professionals for the national and global labor market;
  - establishing conditions for continuous professional growth and academic mobility.
- integrating Ukraine's maritime transport specialist training system into the global training system.

The college's educational program is based on the following principles:

- scientific and practical orientation – a combination of theoretical training and practical experience in seamanship;
- innovation – the use of modern technologies, training systems, and simulators;
- humanism and tolerance – respect for cultural diversity, ensuring equal access to education;
- academic integrity – adherence to ethical standards, transparency of assessment;
- education for everyone – creating favorable conditions for applicants without age restrictions, gender, or citizenship.

### **3. EDUCATIONAL ENVIRONMENT AND TECHNOLOGY FOR STUDYING**

The college provides training for an educational and professional degree of junior bachelor based on complete secondary education in intramural and extramural forms of education and provides training using electronic resources, multimedia technologies, and interactive forms, as well as practical training. The college is improving the educational process by using an online learning technologies in accordance with the Regulations on Distance Learning. Considering the requirements of this Regulation, online classes are effectively conducted, allowing for the full development of students, taking into account individual and general needs for obtaining an educational and professional degree of junior bachelor.

Distance learning is defined as an individualized process of acquiring knowledge, skills, abilities, and methods of cognitive activity, which mainly takes place through indirect interaction between participants in the educational process who are geographically distant from each other in a specialized environment that functions on the basis of modern psychological, pedagogical, and information and communication technologies.

Both Ukrainian citizens and foreigners and individuals without citizenship may study at the college in accordance with the current legislation of Ukraine and international agreements. Students are provided with: adaptation and language support; equal access to educational programs, internships, hostels, and extracurricular activities; integration into the student environment based on tolerance, respect, and mutual understanding.

### **4. INDIVIDUAL WORK OF STUDENTS**

Individual work is organized in accordance with the educational standards of the relevant educational and professional program. These standards outline the main areas of activity for teachers in developing students' individual work and activity skills based on the available teaching materials.

Individual work of foreign students is ensured primarily by the efforts of the teacher, who during classes contributes to the formation and improvement of relevant skills and abilities by gradually increasing the complexity of tasks performed during class time and under his or her close supervision.

Individual work of students includes:

- working with the textbook;
- working with a bilingual dictionary;
- working with educational software in the computer lab;
- completing homework assignments.

Teacher activities aimed at developing students' individual work skills:

- teaching rational planning of individual work outside class hours;
- developing skills and abilities for individual study and familiarization reading of adapted texts;
- teaching students to summarize the main content of the text they have read;
- teaching students to use a dictionary (bilingual) as a type of educational and reference literature.

Individual work of students on the formation of linguistic and communicative competence in social, educational, professional, and sociocultural spheres is carried out under the supervision and with the active assistance of the teacher, who creates the necessary motivation and conditions for its fulfillment.

### **5. EDUCATIONAL WORK**

The college views its significant responsibility and role in educating young people. Educational work among students is carried out jointly with the deputy head of the college for educational work, the head of the department, and the department methodologist. It is based on the priority promotion of universal human values, the development and improvement of the effectiveness of individual work in all areas, and the humanization and humanization of education.

The college (hostel) has special operational teams that ensure student safety and maintain law and order.

At the college, legal awareness is promoted by the deputy head of the college for educational and training work, department heads, and study group supervisors in accordance with the decisions of operational meetings of the leadership of the Ministry of Internal Affairs of Ukraine and the Ministry of Education and Science, as well as plans for interdepartmental measures to improve the fight against crime.

Excursions around the city, visits to museums and exhibitions, and performances at the city's theaters are regularly organized for students. Interviews are held regularly with students, to which leading experts in the maritime industry are invited.

All of the above demonstrates the college's ability to train foreign citizens and people without citizenship in basic specialties with a licensed enrollment capacity of 100 people.

### **6. EXPECTED RESULTS OF IMPLEMENTING THE CONCEPT**

The implementation of the educational concept will ensure:

- the training of competitive specialists capable of working on ships and facilities of all types of transport;
- enhancing the prestige of maritime education in Ukraine;
- the integration of the college's educational programs into the global educational process;
- creation of an open, innovative, and safe educational environment for all students.