

Kherson State Maritime Academy		Quality Management System	02-16-2018
AMENDMENT: 0	ISSUED: 27.11.2018	EVALUATION OF ACQUIRED COMPETENCIES OF APPLICANTS USING COMPUTER TESTING IN KHERSON STATE MARITIME ACADEMY	p. 1 from 35

MINISTRY OF EDUCATION AND SCIENCE OF UKRAINE  
KHERSON STATE MARITIME ACADEMY

**APPROVED**

Rector of Kherson State Maritime Academy  
\_\_\_\_\_ Vasyl CHERNIAVSKYI

DOCUMENTED PROCEDURE  
QUALITY MANAGEMENT SYSTEM

EVALUATION OF ACQUIRED COMPETENCIES OF APPLICANTS  
USING COMPUTER TESTING  
IN KHERSON STATE MARITIME ACADEMY

QMS 02-16-2018

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## INTRODUCTION

Approved by the Rector of Kherson State Maritime Academy

Periodic inspections of the procedure are carried out at intervals not exceeding 12 months.

Changes to the procedure are developed based on the results of its implementation at Kherson State Maritime Academy or in case of changes in the requirements of regulatory documents on the basis of which the procedure was developed.

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## I GENERAL PROVISIONS

The procedure regulates the requirements for organizing and conducting the final semester control of the learning outcomes of higher education applicants at Kherson State Maritime Academy (hereinafter referred to as Academy) and the activities of the Academy's departments involved in organizing and conducting the final semester control (hereinafter referred to as FSC) in the form of independent computer testing (hereinafter referred to as Testing).

The final computer testing is conducted in strict compliance with Article 42 "Academic Integrity" of the Law of Ukraine "On Education," Article 361 of the Criminal Code of Ukraine, the Regulation "On the Anti-Corruption Programme of KSMA" (QMS No. 04-196-2015), and other regulatory legal acts of Ukraine, the Ministry of Education and Science of Ukraine, Kherson State Maritime Academy, etc.

Testing was introduced starting from the 2016-2017 academic year based on the decision of the Academic Council of Kherson State Maritime Academy dated November 24, 2016 (protocol No. 7), with the aim of improving the system of monitoring the academic achievements of applicants and preventing corrupt practices.

This procedure was developed to enhance the system of assessing the acquired achievements of applicants, to support their systematic individual work, to increase the objectivity of knowledge evaluation, and to adapt to the requirements set by European Credit Transfer and Accumulation System (ECTS) and in accordance with the current legislation in the field of higher education in Ukraine.

Implementation of Testing in the educational process of the Academy ensures the accomplishment of the following objectives:

- increasing the motivation of applicants to master educational programmes using more effective differentiation of the evaluation system;
- activating the work of the faculty and applicants to update and improve the content and methods of teaching;

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- motivating applicants to be engaged in systematic individual work and study of academic disciplines throughout the semester/academic year;
- strengthening regular monitoring of the pace of work of applicants in mastering the core educational programme in their specializations;
- improving academic classes attendance rates of applicants.

The procedure standardizes the use of Testing in conducting the final semester evaluation of the quality of knowledge of applicants in the form of exams on a 100-point scale and ECTS scale, defining the rights, duties, and limitations of individuals and departments involved in organizing and conducting Testing.

Computer testing is a method of assessing competency levels using specialized test tasks, conducted through independent interaction between the applicant and a computer, with the ability to obtain testing results and review their statistics.

Testing is organized to evaluate the educational achievements of applicants in academic disciplines according to the curriculum during the final semester control in the form of an exam.

Testing is conducted within the "Electronic Learning Environment of Kherson State Maritime Academy" using the educational platform "Modular Object-Oriented Dynamic Learning Environment" (hereinafter referred to as Moodle). The system is accessible on the Internet to the administration of the Academy, the faculty, employees of departments and services of the Academy, and applicants according to their access rights to its informational resources and subsystems.

#### .1. FIELD OF APPLICATION

The procedure is an internal regulatory document of the Academy, but may only be provided for verification, review, and acquaintance to other institutions and quality auditors in accordance with the established legislation.

This documented procedure applies to academic and teaching staff, employees of deans' offices, departments, and services of Kherson State Maritime Academy.

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## 1.2. REGULATORY REFERENCES

- Law of Ukraine "On Higher Education" dated July 1, 2014, No. 1556-VII.
- Order of the Ministry of Education and Science dated October 16, 2009, No. 943 "On the Introduction of the European Credit Transfer and Accumulation System in Higher Education Institutions of Ukraine."
- Decision of the Academic Council of Kherson State Maritime Academy dated November 24, 2016 (protocol No. 7).

## 1.3. TERMS, DEFINITIONS AND ABBREVIATIONS

Test tasks are questions which provide several options as for answers (multiple choice questions, matching questions), questions with free input of the answer, or tasks that require preliminary calculations and fixed value as the answer (computational type questions).

A test is a fixed set of questions (tasks) designed for the control or self-control of knowledge acquisition by applicants. According to the functions of knowledge control and the requirements of ECTS, the test should be considered a didactic unit of the controlling component of the educational process.

Testing is a method of assessing applicants' level of knowledge and skills.

A testing system is applied software designed to organize computer-based testing of applicants' knowledge in a local computer network or on the Internet.

Computer testing is testing conducted in the form of independent interaction between applicants and the testing system.

LMS Moodle is a modular object-oriented dynamic learning environment, known as a Learning Management System, used for developing, managing, and sharing of educational web resources.

The accumulative rating-based evaluation system of cadets' knowledge is an educational and methodical system for controlling the knowledge, skills, and practical abilities of applicants throughout their entire period of study at the institution of higher

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education.

The European Credit Transfer and Accumulation System (ECTS) is a European system of credit transfer and accumulation used in the European Higher Education Area to provide, recognize, and confirm qualifications and educational components, as well as to promote academic mobility of applicants. The system is based on defining the educational workload of applicants necessary to achieve specified learning outcomes and is accounted in ECTS credits.

The evaluation table is an electronic assessment system used to evaluate the progress in the academic discipline.

Higher education applicants are individuals who study at Kherson State Maritime Academy at a specific level of higher education to obtain a corresponding degree and qualification.

Competence is a dynamic combination of knowledge, skills, and practical abilities, ways of thinking, professional qualities, worldview and citizenship position, moral-ethical values, which determine a person's ability to successfully perform professional and further educational activities and are the result of studying at a certain level of higher education.

ECTS - European Credit Transfer and Accumulation System

KSMA - Kherson State Maritime Academy

QMS - Quality Management System

FSC – Final Semester Control

LMS Moodle - Modular Object-Oriented Dynamic Learning Environment

HEA – Higher Education Applicant

HEI - Higher Education Institution

DISEP - Department of Information Support of Educational Process

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## II. ORGANIZATION AND CONDUCTING FINAL SEMESTER EVALUATION OF EDUCATIONAL ACTIVITY RESULTS

In the Academy educational process, the evaluation of competencies acquired by applicants during the study of educational material in disciplines is carried out in accordance with the accumulative rating-based evaluation system of learning outcomes based on a 100-point, national scale, and ECTS scale.

According to the approved curriculum, each academic discipline studied by the applicant during the semester is concluded with final semester control, the form of which is provided by the curriculum (exam, test).

### 2.1. CONDUCTING FINAL SEMESTER EVALUATION:

#### 2.1.1. Examination in the form of independent computer testing

As per the approved curriculum for each academic discipline studied by the applicant during the semester, final semester control (hereinafter - FSC) is provided.

The final semester mark for an academic discipline in the form of an exam comprises the results of evaluation of current educational activities and independent computer testing.

An exam serves as the means of assessing the applicant's acquisition of theoretical and practical material in a specific academic discipline for the semester, conducted in the form of independent computer testing.

Assessment of current educational activities involves a comprehensive evaluation of the applicant's activities, including assessment of the initial level of knowledge, quality of practical work performance, level of theoretical preparation of the applicant, and completion of all types of work in accordance with the evaluation table is mandatory. (Appendix 6)

The ratio of points for current control and semester control is 50:50, except for disciplines of English, where the ratio is set at 75:25.

Applicants are admitted to testing in a specific academic discipline with no fewer than 30 points (for the English language disciplines, not fewer than 48 points). If a student receives less than 30 points for current control, the obtained points are noted



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down in the Register List of Academic Success as "failed". The applicant receives an Individual Performance Register from the dean's office and approaches the teacher to eliminate academic debt so as to be admitted to testing.

The test results are noted down into the Register List of Academic Success by the responsible person for conducting the testing (Appendix 1, Register List of Academic Success).

A test result of less than 30 points (less than 12 points for the English language) is considered unsatisfactory and requires retaking the test.

With a passing test result, the final grade for the academic discipline is noted down into the Register List of Academic Success and the credit book by the responsible teacher as the sum of points from current and semester control.

If an applicant receives less than 30 points for the test, the obtained points are noted down into the Register List of Academic Success as "failed." The student receives an Individual Session Performance Register from the dean's office and approaches for admission to testing to eliminate the academic debt in order to determine the final number of points.

#### 2.1.2. Examination in the Form of Credit

Differentiated credit is a form of final control, which consists of assessing the acquisition of educational material by the applicant in a specific discipline based on the results of individual tasks exclusively (e.g. calculations, graphic works, etc.).

Semester credit is a form of final control, which consists of assessing the acquisition of educational material by the applicant based on the results of specific types of work exclusively given in the evaluation table (Appendix 6), and is conducted on the last lesson. The semester credit does not require the mandatory presence of the applicant.

The result of the semester credit is noted down into the Register List of Academic Success by the responsible teacher (Appendix 4, Register List of Academic Success - credit form).

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## 2.2. EVALUATION CRITERIA OF RESULTS

Control measures are an integral part of the Academy's quality management system and provide feedback in the educational process. They determine the compliance of the education results of applicant with the requirements set for a certain educational level and ensure timely adjustment of the educational process.

To evaluate the results of education in the Academy the following scales are used, a 100-point (rating), four-point (national), and ECTS scale. The evaluation procedure is regulated by a separate regulation (Table 1).

Table 1

National scale mark		Amount of points (defined by the teacher)	Evaluation criteria
Exam, differentiated credit	Credit		
excellent		90-100	<p>The student fully mastered the educational material, freely and logically presents it in oral and written form, thoroughly and comprehensively elaborates on the content of theoretical material and practical/calculative tasks, using obligatory and additional literature as well. They correctly solve all calculative tasks /tests.</p> <p><u>According to Bloom's Taxonomy, the student at levels 1-6 additionally has the ability to perform cognitive operations of analysis and assessment of educational information</u> such as identifying essential features of the studied material through generalization and conclusions. They can identify cause-effect relationships, freely use facts and information given, plan their actions, and evaluate educational activities.</p>
good	passed	74-89	<p>The student sufficiently mastered the educational material, logically presents it in oral and written form, mainly elaborates on the content of theoretical material and practical/calculative tasks, using obligatory and additional literature. However, in presenting some topics, there may be a lack of sufficient depth of knowledge and argumentation, occasionally insignificant inaccuracies and minor errors. They correctly solve most calculative tasks /tests. The student can identify essential features of the material studied through synthesis and analysis, identify cause-effect relationships, however, there may be some insignificant errors, make conclusions and generalizations, and freely use facts and information.</p> <p><u>According to Bloom's Taxonomy, the student at levels 1-5 additionally has the ability to conduct synthesis and analysis of educational information</u> e.g., separates, discusses, and reveals the essential concepts and processes of educational disciplines.</p>

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Table 1 Continued

satisfactory		60-73	<p>The student has general understanding of the educational material, presents its main content in oral form and written calculations, but without deep comprehensive analysis, justification, and argumentation, thereby allowing for some significant inaccuracies and errors. They have correctly solved half of the calculative tasks /tests. The student experiences difficulties in identifying essential features of the studied material, identifying cause-effect relationships and formulating conclusions. <u>According to Bloom's Taxonomy, the student at levels 1-4 has the ability to show knowledge, understanding, application, and synthesis of the educational information.</u> They are able to perceive, memorize and state the educational material as well as explain, interpret and demonstrate it. They can get engaged in problem-solving tasks.</p>
unsatisfactory	failed	0-59	<p>The student does have deep knowledge of the educational material. They are able to present it fragmentarily, superficially (without argumentation and justification) both in oral and written form, insufficiently produce the content of theoretical material and practical tasks, thereby allowing for significant inaccuracies. They have correctly solved some calculative tasks /tests. They identify random features of the studied material, show inability to perform the simplest analysis and synthesis as well as make generalizations, conclusions. They have not fulfilled all the requirements of the curriculum according to the Evaluation Table (Appendix 6).</p>

## 2.3. PROCEDURE OF COMPUTER TESTING

### 2.3.1.1. Conditions for "Moodle" Access

Access to LMS Moodle is provided when the applicant has a login and password.

Creation of logins and passwords occurs through an individual entry in the Unified State Electronic Database on Education (USEDE) system.

Responsibility for issuing login and password in KSMA lies with the head of the Information Support Department of the Educational Process. They provide the applicant with a unique login and password for LMS Moodle access, electronic learning platform of KSMA, KSMA corporate email, personal email, and personal electronic account.

Received logins and passwords provide the applicant access to educational content on the electronic learning platform according to the curriculum, as well as

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participation in independent computer testing, that is a semester control form.

Having received the access to LMS Moodle, the applicant is consulted on the basic actions in the system during independent computer testing by the Information Support Department of the Educational Process.

The applicants who have not added a photo to their own electronic account are not allowed to examination.

Applicants are obliged to carefully keep their passwords. It is prohibited to share login and password with others. In case of third-party interference in the operation of the personal electronic account of the applicant, such applicant is expelled from the HEI.

The applicant must verify in advance the possibility of their own authentication in LMS Moodle using a phone or PC, log in to their personal account on the website <https://mdl.ksma.ks.ua>.

### 2.3.2. Procedure of Conducting Sample Testing

The applicant must pass the sample testing by using their own PC or mobile device, outside the designated computer testing rooms.

Having logged in in LMS Moodle, the applicant clicks the tab "My courses," the necessary academic discipline, and "Sample Test" of that peculiar discipline. The results of the sample testing are automatically recorded in LMS Moodle database.

### 2.3.3. Actions during Scheduled Session

Actions of the Responsible Person from the IESD during the Final Semester Evaluation:

Before the start of testing, the responsible person for conducting the test from the IESD must instruct applicant.

The responsible person from the IESD verifies the identity of the applicant based on their passport, student ID, or credit book (or another photo ID). After authentication of the applicant, the responsible person informs them about the requirements regarding anti-corruption measures, academic integrity, prohibition of mobile phone usage, as well as any other memorizing or communication devices. The applicant is allowed to

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take the exam only after authentication. If needed, the responsible person from the IESD assists the applicant in starting and finishing the testing procedure, as well as solves any technical issues that may arise due to force majeure circumstances.

The responsible person from the IESD grants exam access to the applicants using a special code.

During the testing, the responsible person must:

- continuously provide information support in the designated room for testing according to the exam schedule;
- interact with the applicant only on the matters related to testing procedure.

After the exam, the responsible person from the IESD notes down the exam results in the Register List of Academic Success (Appendixes 1, 2) and verifies the results with the data from LMS Moodle server.

The information is documented in two original copies of the Register List of Academic Success and kept in the dean's offices and the IESD.

The original document with the results is kept in the IESD during the academic year, and copies may be used by the dean's offices, Educational Department, and Quality Management System Department.

Actions of the Examiner during the Final Semester Evaluation:

Before the beginning of testing, the examiner and assistant ensure access to the designated exam room according to the exam schedule.

The examiner and assistant ensure the proper conducting of independent computer testing on the academic discipline. They check the presence of the applicant and grant them the right to take the exam in the form of independent computer testing.

During the computer testing, the examiner and assistant continuously monitor to ensure that the applicant does not use mobile phones or other sources of information. In case of non-compliance, the examiner has the right to warn the applicant once and disqualify them from taking the exam on the second offense.

During the computer testing, the examiner and assistant may interact with the applicant only on the matters concerning testing procedure.

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After the exam, the examiner and assistant note down the exam results in the designated form of Register List and submit it to the dean's office. (Appendix 1)

Actions of the Applicant during the Final Semester Evaluation:

The final semester evaluation for the group of applicants takes place in the designated room at the specified time.

Before the exam, the responsible person from the IESD instructs on the procedure of taking the test in LMS Moodle.

The applicant must log in their personal account in the system either independently or with the assistance of the responsible person from the IESD.

The use of mobile phones and other sources of information during the exam is prohibited.

In the "My courses" menu, the applicant finds the relevant discipline and activates the "Exam Testing".

The applicant is not allowed to leave the room during the test.

The applicant finishes the testing by pressing the "Finish Attempt" and "Submit All" buttons. LMS Moodle displays the test results, which are recorded by the responsible person from the IESD and the examiner.

If the applicant finishes the test before the scheduled time, they must leave the room immediately regardless of the obtained result.

2.3.4. Testing by the Individual Schedule

Testing according to an individual schedule is facilitated by the IESD in a designated room for independent computer testing.

In accordance with the Regulation "On Evaluation of Academic Achievements of Higher Education Applicant", the applicant has the right to take two exams on the same calendar day based on electronic registration.

Electronic registration is performed by the applicant on the distance learning website in the "Information Section" tab online. Alternatively, the applicant can register directly in the room designated for computer testing. On one calendar day, the applicant

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has the right to take two exams. In exceptional cases, with the permission of the dean of the faculty, the applicant may be allowed to take three attempts. An applicant who has used three attempts but has not received a passing grade is considered to have failed the exam and receives an unsatisfactory mark.

Examination is only possible if the applicant presents an Individual Performance List and a credit book (or other document serving as proof of identity).

#### 2.3.5. Testing to Eliminate Academic Debts

The elimination of academic debts is carried out in the first week after the completion of the scheduled session and is intended for those applicants who have not obtained the required number of points both from the current control and computer testing.

According to the schedule of academic debt elimination compiled by the dean's offices and approved by the deans of faculties, re-taking of computer testing is conducted for educational disciplines.

In case applicants receive an unsatisfactory mark during the elimination of academic debts, the next elimination of academic debts takes place according to the faculty's order, and an academic debt elimination commission is scheduled at the department.

The results of the final evaluation are documented in the Register List of Elimination of Academic Debts. (Appendix 3)

For applicants with an individual schedule, the right to take the computer test twice is granted, which should be noted by the IESD. For the third attempt, the elimination of academic debts is conducted by the department commission, consisting of the head of the department and two teachers. The semester control marks and the final mark are documented in the Individual Performance List of the applicant.

#### 2.3.6. Repeated Examination

Applicants are given the right to take an exam in a particular discipline according to an individual schedule, but not more than three times. An applicant who has used three attempts but has not received a sufficient mark is considered to have not passed

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the exam and receives an unsatisfactory grade.

### III. EDUCATION METHODOLOGICAL SUPPORT

Tasks should be aimed to assess the level of formation of competencies of applicants in the academic discipline according to the curriculum.

#### 3.1 PROCEDURE FOR DEVELOPMENT, ANALYSIS, AND APPROVAL OF TEST TASKS

Quantity of the test tasks. For the final testing of applicants, a test consisting of 50 questions is provided. These questions will be selected randomly from the question bank of test tasks, with the order of answers also changing. The total time for completing the test is 80 minutes.

Test tasks should consist of different levels of difficulty:

1. Sufficient Level of Difficulty
2. Medium Level of Difficulty
3. High Level of Difficulty (According to Table 2)

Table 2

General requirements for test tasks of the final semester control in the form of independent computer testing

Levels of tasks' difficulty	Alignment with the levels of cognitive objectives according to Bloom's taxonomy	Total quantity of tasks		Time to complete one task/ total time for the test level, minutes
		%	Qty.	
Sufficient level	1- level of knowledge ; 2- level of understanding; 3- level of application.	80	40	1/40
Medium level	4- level of analysis; 5- level of synthesis;	15	8	3/24
High level	6- level of evaluation.	5	2	8/16
TOTAL		100	50	80



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The final test should contain an item bank at a minimum of 100 questions per one ECTS credit allocated to the discipline, according to the curriculum and the study programme (the total amount of practical lessons and students' individual work hours).

For disciplines that obtain more than 3 ECTS credits, it is recommended to provide (minimum quantity) over 300 test tasks.

Department teachers are responsible for developing and regularly updating test items for final control, as well as for checking residual knowledge.

Test tasks developed by department teachers must undergo internal examination within the department, specifically be approved during the faculty sitting, which is documented by the corresponding protocol.

The head of the department is responsible for the content of the tests and their alignment with the curriculum of the discipline.

Materials for computer testing approved by the department are coordinated with the head of the graduating department, deans of faculties, the head of the IESD, and the head of the Education Methodology Department. After the coordination process, they are approved by the Vice-Rector on Academic Work, followed by registration.

Materials for independent computer testing are prepared in two copies, with one being a part of the educational and methodical complex, and the other remaining in the Education Methodology Department. (The form is attached. Appendix 5).

### 3.2 FORMATION OF THE TEST TASKS BANK

The test tasks bank for disciplines is created with the aim of improving the quality of professionals' training and the effectiveness of applicants' individual work.

The test tasks bank for disciplines is an integral part of the educational and methodological complexes, including electronic ones.

The Academy's departments are responsible for the development and updating of the test tasks bank for each discipline.

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Approval of the test tasks and their evaluation system during the faculty meeting is a mandatory requirement for organizing the final control in the form of computer testing.

Departments responsible for increasing the test tasks database for a specific discipline must review its content for relevance and quality at least once a year, updating the test tasks as necessary. The current version of the test tasks bank for the discipline is stored at the department in electronic and printed formats.

The results of computer testing are used by the relevant units of KSMA to adapt the educational process and develop measures aimed at enhancing its quality.

#### IV. INFORMATIONAL RESOURCES TO SUPPORT APPLICANTS

The information resources available to applicants at Kherson State Maritime Academy are primarily comprised of two main sources.

1. Information resources posted on the website of the e-learning platform of Kherson State Maritime Academy. The structure of the e-learning system of KSMA, which is built on the Moodle platform, is designed to meet the scientific and methodological needs of this educational institution. It encompasses general information for system users, study weeks schedules, registration for individual exams, etc. The main component of the website is the e-learning system itself, organized by faculties and departments. Each department organizes disciplines taught by courses and teachers, with teachers responsible for filling the discipline pages with content. This content aligns with the structure of the educational and methodological complex of disciplines. The purpose of the website is to provide applicants with necessary methodological materials and the ability to work with them at a time convenient for students. The educational and methodological complex of the discipline includes lecture-theoretical material according to the curriculum, methodological recommendations for laboratory and practical work, and seminar sessions, tasks for individual and independent study, as well as guidance for course and diploma thesis, and the programme of pre-graduate practice. In addition, a student has the opportunity to assess their own level of material

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assimilation, so the complex of information resources on the page of the selected discipline includes self-assessment questions, control tasks, and practice tests.

To access the information resources, an applicant must authenticate on KSMA's e-learning website. To gain access, they receive a personal login and password from the head of the Laboratory of Innovative Technologies. Then, they proceed to the e-learning website of KSMA using the link: <https://mdl.ksma.ks.ua/> or directly from the official website of KSMA ([https://ksma.ks.ua/EducationalStructures/Distance Learning Site](https://ksma.ks.ua/EducationalStructures/DistanceLearningSite)). At the authentication window (Login), they enter their login and password. According to the website's user registration system, the applicant is enrolled in the courses specified in their curriculum. This grants them access to all course materials.

## 2. Other information resources.

On the official website of KSMA, there are other valuable information resources available to students such as catalog of KSMA library, electronic libraries of other higher education institutions (main menu "Educational Structures", tab "Library"/"Electronic Library"). The electronic library of KSMA contains a catalogue of all available printed materials of KSMA library, structured by specialties; links to the Web-IRBIS electronic library; useful links to databases of educational institutions in Ukraine and Europe; and methodological materials for disciplines of KSMA departments, structured by faculties / specialties / disciplines. This resource is also accessible to users at any time and from anywhere.

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**Complied:**

Head of Educational Department \_\_\_\_\_ L. Struminska

Head of Education Methodology Department \_\_\_\_\_ V. Chernenko

Head of Department of Information Support  
of Educational Process \_\_\_\_\_ P. Nosov

Head of Department of Innovative  
Technologies and Technical Means of  
Navigation \_\_\_\_\_ S. Voloshynov

Head of Education Methodology Laboratory  
of Innovative Technologies \_\_\_\_\_ H. Popova

**Agreed:**

Vice-Rector on Academic Work \_\_\_\_\_ O. Dyagileva

Head of Legal Department \_\_\_\_\_ O. Sliepchenko

Head of Monitoring and Educational  
Quality Management Department \_\_\_\_\_ O. Ustymenko



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Dean of Faculty

\_\_\_\_\_

(signature)

(name, surname)

Methodologist of Faculty

\_\_\_\_\_

(signature)

(name, surname)

Examination results

TOTAL AMOUNT OF POINTS	SUM OF POINTS	MARK	
		ECTS	national scale
	90-100	A	excellent
	82-89	B	good
	74-81	C	
	64-73	D	satisfactory
	60-63	E	
	35-59	FX	unsatisfactory
	1-34	F	

Responsible teacher for testing

\_\_\_\_\_

(signature)

\_\_\_\_\_

(name, surname)

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Appendix 2

**KHERSON STATE MARITIME ACADEMY**

Faculty \_\_\_\_\_  
 Specialty 271 “Sea and River Transport”  
 Specialization \_\_\_\_\_  
 Form of studying \_\_\_\_\_  
 Course \_\_\_\_ Group \_\_\_\_

20\_\_ - 20\_\_ academic year

**REGISTER LIST №**  
**of independent computer testing results**  
 \_\_\_\_\_ 20\_\_

(name of the discipline) \_\_\_\_\_

Form of semester control exam

Responsible staff:

№	Name, surname	Current control points	Semester control points
1.			
2.			
3.			
4.			
5.			

**INDEPENDENT COMPUTER TESTING RESULTS**

Enrolment	Total amount of points	Sum of points
16		45-50
		41-44
		37-40
		32-36
		30-31
		18-29
		1-17
Total		
Failed to appear		

Responsible staff for the testing results:

Teacher \_\_\_\_\_  
 (signature) (name, surname)

Specialist of Department of Information Support \_\_\_\_\_  
 of the Educational Process (signature) (name, surname)





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Dean of Faculty

\_\_\_\_\_

(signature)

(name, surname)

Methodologist of Faculty

\_\_\_\_\_

(signature)

(name, surname)

Examination results

TOTAL AMOUNT OF POINTS	SUM OF POINTS	MARK	
		ECTS	national scale
	90-100	A	excellent
	82-89	B	good
	74-81	C	
	64-73	D	satisfactory
	60-63	E	
	35-59	FX	unsatisfactory
	1-34	F	

Responsible teacher for testing

\_\_\_\_\_

(signature)

\_\_\_\_\_

(name, surname)



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№	Name, surname	№ of credit book	Mark					Signature of a Responsible teachers
			Points of current control	Points of semester control	Final amount of points	ECTS	National scale	

**Dean of the Faculty**

\_\_\_\_\_ (signature) \_\_\_\_\_ (name, surname)

**Methodist of the Faculty**

\_\_\_\_\_ (signature) \_\_\_\_\_ (name, surname)

**Credit results**

TOTAL AMOUNT OF MARKS	SUM OF POINTS	ECTS	NATIONAL SCALE	
			exam	credit
	90-100	A	excellent	passed
	82-89	B	good	
	74-81	C		
	64-73	D		
	60-63	E	satisfactory	failed
	35-59	FX	unsatisfactory	
	1-34	F		

**Examiner (teacher)**

\_\_\_\_\_ (signature) \_\_\_\_\_ (name, surname)

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Appendix 5

MINISTRY OF EDUCATION AND SCIENCE OF UKRAINE

KHERSON STATE MARITIME ACADEMY

APPROVED

Vice-Rector on Academic Work of

Kherson State Maritime Academy

O. Diahyleva \_\_\_\_\_2018

Code №

Registration №

MATERIALS

OF INDEPENDENT COMPUTER TESTING

*Name of discipline*

\_\_\_\_\_

*Faculty*

\_\_\_\_\_

*Degree of Higher Education*

*bachelor / master*

*Field of knowledge*

*27 Transport*

*Specialty*

*271 Sea and River transport*

*Specialization*

\_\_\_\_\_

*Course, semester*

\_\_\_\_\_

*Form of study*

\_\_\_\_\_

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The materials for independent computer testing in the discipline of \_\_\_\_\_ were developed in accordance with study programme for Bachelor's / Master's degree.

Field of knowledge, specialty, specialization (information about the developer), \_\_\_\_\_ p. (number of pages).

The materials were analyzed and approved at the faculty sitting.

20\_\_ protocol №

Head of Department

\_\_\_\_\_  
(signature) (name, surname)

Dean of Faculty

\_\_\_\_\_  
(signature) (name, surname)

Head of Education

Methodology Department

\_\_\_\_\_  
(signature) (name, surname)

Head of Department of Information

Support of Educational Process

\_\_\_\_\_  
(signature) (name, surname)

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### 1. Introduction

(Brief overview of the discipline, knowledge, skills, abilities, practical application recommendations for tests)

### 2. Place of Discipline in the Structure of the Core Professional Programme

The discipline is classified within a particular academic cycle. Requirements for the student's prior knowledge, skills, and competencies necessary for studying the discipline are formulated. The theoretical and practical disciplines that need to be mastered beforehand are also specified.

The educational programme of the discipline \_\_\_\_\_ is developed in accordance with the Convention on Standards of Training, Certification and Watchkeeping for Seafarers (Chapter \_\_\_\_\_) and the IMO Model Course \_\_\_\_\_.

The study of the academic discipline \_\_\_\_\_ aims to develop the following competencies:

Table 1.1 Competency Requirements for Professional Skills

<b>№</b>	<b>Competence</b>	<b>Content of Skill</b>

### 3. Test tasks

### 4. Criteria for Knowledge Evaluation in the Discipline

### 5. Recommended Information Resources

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## Appendix 6

№	Group №, name, surname of the applicant	Discipline Modules																		Final Module Mark Max 50 Min 30	Final Control (Max points of applicant)	Final Semester Mark		
		Solar System				Celestial Sphere and Equatorial Coordinate Systems						Hour Angle									Independent Computer testing in LMS Moodle			
Amount of points (minimum passing grade)		Individual				Individual						Individual								Independent Computer Testing				
1		4	4	4	4	16	4	4	3	3	2	2	18	2	2	2	5	3	2	2	16	50	50	100
2																								

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## 1. LIST OF SHARING

№	Structural unit	№ of copy
1.	Monitoring and Education Quality Management Department	control
2.	Vice-Rector on Academic Work of KSMA	№2
3.	Educational Department	№3
4.	Education Methodology Department	№4
5.	Department of Correspondence and Distant Learning	№5
6.	Department of Information Support of Educational Process	№6
7.	Laboratory of Innovative Technologies	№7
8.	Maritime College of KSMA	№8
9.	Navigation Faculty	№9
10.	Marine Engineering Faculty	№10
11.	Department of Navigation and Electronic Navigation Systems	№11
12.	Department of Innovative Technologies and Technical Devices	№12
13.	Ship Handling Department	№13
14.	Department of Ship Power Plants Operation	№14
15.	Department of Ship Electrical Equipment and Automatic Devices Operation	№15
16.	Transport Technologies Department	№16
17.	Humanities Department	№17
18.	Natural Science Department	№18
19.	General Engineering Department	№19
20.	Department of IT, computer systems and networks	№20
21.	Department of Economics and Maritime Law	№21
22.	English Language Department for Deck Officers	№22
23.	English Language Department for Marine Engineers	№23
24.	English Language Department for Maritime Officers (abridged programme)	№24
25.	Physical Training Department	№25







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#### 4. LIST OF PERIODIC INSPECTIONS

№	Date of inspection	Auditor position (inspector)	Name, surname	Content remarks (no remarks)