



MINISTRY OF SCIENCE AND HIGHER EDUCATION OF THE RUSSIAN FEDERATION  
Federal State Budgetary Educational Institution of Higher Education  
«KAZAN STATE POWER ENGINEERING UNIVERSITY»  
(FSBEI HE «KSPEU»)

APPROVED

Director of the Institute of Digital  
Technologies and Economics

\_\_\_\_\_ Zainullin R.R.

«24» \_\_\_\_\_ February \_\_\_\_\_ 2026

#### WORK PROGRAM FOR THE DISCIPLINE

#### **B2.V.01(I) Industrial practice (design and technological)**

Field of training

38.03.02 Management

Qualification

Bachelor's Degree

Kazan, 2026

Program developed by:

Department name	Position, academic degree, academic title	Full name Developer
Management	Candidate of Sociological Sciences, Associate Professor	Akhmetova E.S.

Approval	Name of department	Date	Minute s No.	Signature
Approved	Management	10.02.2026	Protocol №5	_____ Head of Department, Doctor of Social Sciences, Professor Makhiyanova A.V.
Agreed	Management	10.02.2026	Protocol №5	_____ Head of the Department., Doctor of Social Sciences, prof.Makhiyanova A.V.
Agreed	Educational and Methodological Council of IDTE	24.02.2026	Protocol №6	_____ Director, Ph.D., Associate Professor, Zainullin R.R..
Approved	Scientific Council of IDTE	24.02.2026	Protocol №6	_____ Director, Ph.D., Associate Professor, Zainullin R.R.

## 1. The purpose, objectives and planned learning outcomes of educational/industrial practice

The purpose of the internship is to acquire the knowledge and skills necessary to carry out research work in the field of project management, and to learn the skills of collecting, analyzing, processing, and using information to conduct research projects and make management decisions.

The objectives of the practice are:

- consolidation and deepening of theoretical knowledge on design activities;
- collection of materials, preparation of analytical reports and information reviews for writing the final qualification thesis work;

acquisition of practical professional skills, skills in making organizational and managerial decisions, collecting information, calculating economic indicators, analyzing and interpreting the activities of specialized economic entities, and experience in independent professional activity.

Competencies developed through practical training, planned learning outcomes correlated with competency achievement indicators:

Competence code and name	Indicator code and name
PC-1 Able to analyze the effectiveness of the existing management structure of the organization in order to develop proposals for its improvement, in accordance with the strategy implemented by the organization, based on advanced information technologies.	PC-1.1 Analyzes the existing management structure of the organization and the basic principles of analyzing its effectiveness, with the aim of developing proposals for streamlining the management structure in line with the strategy implemented by the organization.
	PC-1.3 Uses advanced information technologies to process and analyze information in order to organize work on designing methods for implementing management processes.
PC-2 Able to develop strategies for the organization with the aim of adapting its production and economic activities to changing external and internal market conditions in order to ensure investment attractiveness and competitiveness in the modern global economy.	PC-2.1 Participates in the development of proposals for specific areas of market research with the aim of determining the prospects for the strategic development of the organization.
PC-3 Able to use advanced domestic and foreign experience in the field of organizational management to prepare balanced management decisions, taking into account the influence of the modern socio-economic environment.	PC-3.1 Analyzes advanced domestic and foreign experience in the field of organizational management.

## 1. The place of educational (industrial) practice in the structure of the educational program

Industrial practice (project-technological) is a mandatory part of the curriculum for the training program 38.03.02 Management.

## 2. Forms and methods of conducting practice

Method of conducting practice: in-patient, on-site

*stationary, mobile*

Form of the internship

discrete

*continuous, discrete*

Methods and forms of practice for persons with disabilities and people with limited health capabilities.

For individuals with disabilities, the choice of internship locations is consistent with the requirements for their accessibility for this category of students:

- all elements in the work area must be securely fastened;
- if necessary, additional space is provided for a disabled person (for example, for a wheelchair user);
- If necessary, additional work lighting is possible places;
- all equipment and furniture used by a disabled person who is mobile in a wheelchair, must be located within easy reach.
- a workplace that involves working on a computer is, if necessary, equipped with a special keyboard, a special computer mouse.

The workplace for conducting the internship is organized by the internship bases and must comply with the required sanitary and technical standards.

## 3. Place and time of the internship

The practice is held at \_\_\_\_\_3\_\_\_\_\_ course(s) in 6

\_\_\_\_\_semester(s). Duration of practice (weeks) \_4\_

The place(s) of internship are KSPEU

## 4. Volume, structure and content of practice

### 4.1. Scope of practice

*For dispersed*

Type of academic work	Total ZE	Total hours	Semester
			4
<b>TOTAL WORK INTENSITY OF PRACTICE</b>	6	216	216
INDEPENDENT WORK OF THE STUDENT	6	216	216
Interim assessment:	Credit with grade		

## 4.2. Structure and content of the practice

Item No.	Sections (stages) and the content of the practice	Competency codes with indicators	Evaluation tools and forms of current control
1	2	3	7
<b>1</b>	<b>Preparatory stage</b>		
1.1	Briefing, paper work for an internship	PC-3.1	Oral individual survey
<b>2</b>	<b>Working stage*</b>		
2.1	Familiarization with the rules for collecting information for the internship. Analysis of the structure and functions of the organization, study of the work, functions, and job responsibilities of the organization's personnel, study of the legislative acts regulating project activities of the organization as a whole.	PC-1.1	Oral individual survey
2.2	Execution individual assignment. Analysis design activities of the organization, which can have different directions: economic, organizational, scientific, research, etc. Development of recommendations for improving efficiency design activities of the organization.	PC-1.3	Oral individual survey
<b>3</b>	<b>Reporting stage</b>		
3.1	Registration of necessary documents documents on educational practice, final report and diary in in the established order	PC-2.1	Oral individual survey

\* The content of the work stage is determined depending on the type and kind of practice

## 4.3. List of sample individual assignments for practice

- project activities in the field of procurement;
- the organization's position in the market and in the field of project management;
- main directions and scale of activities in the field of project management;
- informational materials and economic data by project evaluation;
- methods of development, implementation, realization and promotion of projects;
- budgets for project management activities at various levels and at various stages of the life cycle;

- operational control over project management activities in the organization;
- risks associated with project implementation;
- modern approaches to project management at various levels;
- methods for assessing the effectiveness of projects;
- modern software for decision making in the field of project management.

## 5. Evaluation of the results of the internship

The assessment of the results of the internship is carried out within the framework of ongoing monitoring of academic performance and midterm assessment.

Ongoing monitoring of academic performance is carried out during the internship period and includes an individual oral survey.

Midterm assessment of the internship is carried out in the form of a credit assessment, which is carried out through a public defense of the internship report. The final internship assessment is the grade assigned during the midterm assessment, taking into account the results of ongoing academic monitoring and the student's performance evaluation submitted by the internship supervisor from the relevant organization.

Based on the results of the internship, the student submits the following reporting documentation:

Item No.	List of reporting documentation
1	Copy of the student's internship agreement*
2	A copy of the administrative document on the appointment of a practice manager from among the employees of the relevant organization
3	An approved individual assignment for internship with a work schedule (plan), agreed upon by the internship supervisor from the relevant organization
4	A practice diary with a note on completion of the introductory briefing on the technique safety and safety instructions at the workplace, with the signatures of the practice managers from the relevant organization and KGEU
5	A review with an assessment from the internship supervisor from a specialized organization, certified by the signature and seal of the specialized organization (as part of the internship diary)
6	A student's report on practical training, compiled in accordance with the requirements

\* Not required when completing internships in structural divisions of KSPEU, at basic departments and in the presence of long-term cooperation agreements for organizing internships for students

### Internship results assessment scale:

Compe tence code	Competency indicator code	Planned resultstraing in	Level of development competence indicator			
			High	Average	Below average	Short
		discipline	from 85 to 100	from 70 to 84	from 55 to 69	from 0 to 54
Rating scale						

			Great	Fine	satisfactory	dissatisf action telno
			passed			not credited
PC-1 Able to analyze the effectiveness of the existing management structure of the organization in order to develop proposals for its improvement, in accordance with the strategy implemented by the organization, based on advanced information technologies	PC-1.1 Analyzes the existing management structure of the organization and the basic principles of analyzing its effectiveness, with the aim of developing proposals for streamlining the management structure in line with the strategy implemented by the organization.	know: strategies for solving problems in project activities				
			Level of knowledge of problem solving strategies in project activities in a volume corresponding to the training program, without mistakes	Level of knowledge of problem solving strategies in project activities in a volume corresponding to the program, there are several minor ones mistakes	Minimum acceptable level of knowledge of problem solving strategies in the design and activities , there is a lot going on minor errors	Level of knowledge of problem solving strategies in the project activities below the minimum requirements, there are gross mistakes
		be able to: assess the need for additional information to implement the organization's strategy				
			Demonstrated that's all basic skills to assess the need for additional information for implementation and organizational strategies in full	Demonstrated that's all basic skills to assess the need for additional information for implementation and organizational strategies in full, but With some shortcomings	Demonstrated basic skills to assess the need for additional information for implementation and organizational strategies  With not rude and without mistakes, completed All tasks, but Not in full	When solving standard problems  basic skills to assess the need for additional implementation information have not been demonstrated strategies of the organization, there are gross errors
		own: skills developmentsstrategies design activities				

			Demonstrated development skills strategies in project and activities without errors and shortcomings	Demonstrated basic development skills strategies in project activities With some shortcomings	There is a minimum set of development skills strategies in project and activities With some shortcomings and	When solving standard problems basic development skills have not been demonstrated strategies in project activities, there are gross errors
PC-1 Able to analyze the effectiveness of the existing management structure of the organization in order to develop proposals for its improvement, in accordance with the strategy implemented by the organization, based on advanced information technologies	PC-1.3 Uses advanced information technologies to process and analyze information in order to organize work on designing methods for implementing management processes.	know: advanced information technologies for processing and information analysis				
			Level of knowledge of basic information technologies for processing and information analysis in a volume corresponding to the training program, without mistakes	Level of knowledge of basic information technologies for processing and information analysis in a volume corresponding to the program, there are several minor errors	Minimum acceptable level of information technology for processing and information analysis and, there are many minor errors	When solving standard problems basic information technology skills have not been demonstrated for processing And analysis of information, there are rough mistakes
		be able to: develop organizational, technical and organizational and economic documentation taking into account the project life cycle				
			Prodemonstratio-	Demonstrated	Demonstrated	When deciding

			<p>Vans all the basic skills to develop organizational and technical And Organizational and economic documentation taking into account vital cycle project in full</p>	<p>y All basic skills to develop organizational and technical And organizational and economic documentation taking into account vital cycle project with rough and errors ,complete All tasks in full, but With some short comings</p>	<p>y basic skills to develop organizational and technical And organizational and economic documentation taking into account vital cycle project with rough and errors ,completed All tasks, but Not in full</p>	<p>standard tasks basic skills in developing organizational and technical solutions have not been demonstrated forging and organizational and economic documentation taking into account vital during the project cycle, gross errors occur</p>
<p>possess: skills in the formation and justification of goals and objectives of research and design developments, survey work, determination of the significance and necessity of their implementation, ways and methods of their solution</p>						
			<p>Demonstrated skills of formation and justification goals and research objective And design developments, survey</p>	<p>Demonstrated basic skills of formation and justification goals and research objectives And design developments, surveys</p>	<p>There is a minimum set of skills for formation and justification goals and research objectives And design developments, surveys</p>	<p>When solving standard problems basic skills for formation were not demonstrated Vaniya and justification on goals and tasks</p>

			works, determination of the value and necessity they were carried out and, ways and methods of their solutions in the volume corresponding to the training program, Without mistakes	scientific works, determination of the significance and necessity they were carried out and, ways and methods of their solutions with some shortcomings	scientific works, determination of the significance and necessity they were carried out problems, ways and methods of solving them for writing report on practice and summed up and the results with some shortcomings and	research and design developments, survey work, determination of the value and necessity the possibilities of their implementation, ways and methods of solving them for writing report on practice and summing up the results, there are gross mistakes
PC-2 Able to develop strategies for the organization with the aim of adapting its production and economic activities to changing external and internal market conditions in order to ensure investme	PC-2.1 Participates in the development of proposals for specific areas of market research with the aim of determining the prospects for the strategic development of the organization.	know: modern management theories, principles, methods and techniques for assessing assets, investment projects and organizations; methods for constructing conceptual, mathematical and simulation models; forecasting methods, technical and economic research				
			Level of knowledge of modern management theories, principles, methods and techniques for assessing assets, investment projects and	Level of knowledge of methods of modern management theories, principles, methods and techniques for assessing assets, investment projects	The minimum acceptable level of knowledge of modern management theories, principles, methods and techniques of asset valuation,	Level of knowledge of methods of modern management theories, principles, methods and methods of asset valuation, investment

<p>nt</p> <p>attractive ness and competiti veness in the modern global economy</p>			<p>organizati ons; methods of constructi ng conceptual ,mathemat ical and simulation models; forecastin g methods, technical and economic research in a volume correspondi ng to the training program, without mistakes</p>	<p>and organizati ons; methods for constructi ng conceptual , mathemati cal and simulation models; forecastin g methods, technical and economic research in a volume correspon ding to the program, there are several minor errors</p>	<p>investment projects and organizati ons; methods for constructi ng conceptual , mathemati cal and simulation models; forecastin g methods, technical and economic studies, there are many minor errors</p>	<p>projects and organizati ons; methods for constructi ng conceptua l, mathemat ical logical and simulatio n models; forecastin g methods, technical and economic studies below the minimum requireme nts, there are gross errors</p>
<p><i>Be able to: and</i> use information technology and tools in the development of innovative projects, apply automation tools in design and production preparation</p>						
			<p>Demonstra ted that's all basic skills in</p>	<p>Demonstr ated that's all basic skills</p>	<p>Demonstra ted basic skills in using</p>	<p>When solving standard problems</p>

			using information technology and tools for developing innovations on projects, will apply automation tools in design and preparation of production in full	in using information technology And tools for developing innovations on projects, will apply automation tools in design and preparation of production in full, but some with flaws	information technology And tools for developing innovations on projects, will apply automation tools in design and preparation of production  With not rude and without mistakes completed All tasks, but Not in full	basic skills in using information technology have not been demonstrated and instrumental means for development of innovative projects, apply automation tools for design the preparation and preparation of production, there are gross errors
		Own:skills in managing promising areas for improving methods, models and mechanisms of strategic and tactical planning in project activities				
			Demonstrated skills for managing promising areas improvement of methods, models and mechanisms strategic and tactical planning in the design and activities without error	Demonstrated basic skills for managing promising areas improvement of methods, models and mechanisms strategic and tactical planning in project activities	There is a minimum set of skills for managing promising areas improvement of methods, models and mechanisms strategic and tactical planning in the design and	When solving standard problems  basic skills in managing promising areas for improving methods, models and mechanism of ov strategic and

			ors and shortcomings	With some shortcomings we	activities With some shortcomings And	tactical planning Ania in project activities, there are gross mistakes
PC-3 Able to use advanced domestic and foreign experience in the field of organizational management to prepare balanced management decisions, taking into account the influence of the modern socio-economic environment.	PC-3.1 Analyzes advanced domestic and foreign experience in the field of organizational management.	know: domestic and foreign experience in the field of management organizations				
			Level of knowledge of the domestic and foreign experience in the field of organizational management, without errors	Level of knowledge of basic domestic and foreign experience in the field of organizational management in a volume corresponding to the program, there are several minor errors	The minimum acceptable level of knowledge of domestic and foreign experience in the field of organizational management, there are many minor mistakes	When solving standard problems basic knowledge of the homeland has not been demonstrated domestic and foreign experience in the field of management of the organization, there are gross errors
		be able to: based on economic and strategic analysis calculate the key indicators of the project office				
			Prodemons are strvany all the main ones skills based on economic and strategic analysis to calculate key indicators and design about the office in in	Demonstrated that's all Main skills based on economic and strategic analysis to calculate key indicators and design about the office with	The main ones are demonstrated skills based on economic and strategic analysis to calculate key indicators and design about the office with not rude	When solving standard problems basic skills not demonstrated based on economic Eskogo and strategic analysis calculate key

			full	not rude and without mistakes, completed All tasks in full, but With some short comings	and without mistakes, completed All tasks, but Not in full	indicators and design office, there are gross errors
		Possess: skills compilation reports and presentations on results of analytical work				
			Demonstrated composing skills reports and presentations on results of analytical work without errors and shortcomings	Basic writing skills demonstrated reports and presentations on results of analytical work, but With some shortcomings	There is a minimum set of skills for setting up compiled reports and presentations on results of analytical work with some shortcomings and	When solving standard problems basic writing skills have not been demonstrated reports and presentations According to the results of analytical work, there are gross errors

An "**excellent**" grade is awarded for completing the calculation work during the semester; test assignments; a deep understanding of the technological methods for calculating material consumption rates; complete and informative answers to the questions on the exam (theoretical and practical assignments);

A grade of "**good**" is awarded for completing calculations during the semester; test assignments; understanding of technological methods for calculating material consumption rates; answers to questions on the exam (theoretical or practical assignment);

The grade "**satisfactory**" is given for the completion of calculation work during the semester and test assignments;

The grade "**unsatisfactory**" is given for weak and incomplete completion of calculations in the semester and test assignments.

### 5.1.1. Main literature

1. Project management: basic course: textbook / I. V. Korneeva, A. G. Koryakov, A. A. Latorcev [et al.]; edited by S. A. Polevoy. - Moscow: KnoRus, 2023. - 191 p. - ISBN 978-5-406-10617-4. - URL: <https://book.ru/book/945960>.

— Text: electronic.

2. Fundamentals of Project Management: a textbook / B. A. Tkhorikov, N. A. Mamatova, O. A. Gerasimenko [et al.]. - Belgorod: BelSU National Research University, 2020. - 222 p. - ISBN 978-5-9571-2860-1. - Text: electronic // Lan: electronic library system. - URL: <https://e.lanbook.com/book/329315>. - Access mode: for authorized users.

### 5.1.2. Further reading

1. Popkova, E. G., Project management in marketing activities: textbook / E. G. Popkova, A. V. Chesnokova, O. I. Radina. - Moscow: Rusains, 2023. - 206 p. - ISBN 978-5-466-02898-0. - URL: <https://book.ru/book/949758>.

— Text: electronic.

2. Petrov, M. N., Theoretical foundations of the development of innovation and project management during the fourth industrial revolution: monograph / M. N. Petrov. - Moscow: Rusains, 2022. - 167 p. - ISBN 978-5-466-02558-3. - URL: <https://book.ru/book/948292>. - Text: electronic.

### 7.2.3. Licensed and freely distributed software of the discipline

WinAVR Software package for Windows operating systems <https://simple-devices.ru/>

SQL Server Enterprise Edition 2008R2 Russian Open License Pack No Level Academic Edition Enterprise data management platform. Software product for messaging and collaboration.

SoftLineTrade No. 32081/KZN12 from March 14, 2011

Windows Server CAL 2008 Russian Open License Pack No Level Academic Edition Usr CAL Server room operating room system from companies Microsoft.

SoftLineTrade CJSC No. 32081/KZN12 dated March 14, 2011

SQL CAL2008R2Russian

OpenLicensePack NoLevel AcademicEdition UsrCAL Server operating system from Microsoft.

JSCSoftLineTrade No. 32081/KZN12 dated 03/14/2011

## 8. Logistical support for the internship

Name of the species academic work	Name of the educational institution audiences, specialized laboratories	List of necessary equipment and technical teaching aids
Preparatory	A classroom for conducting lecture- type classes	Specialized educational furniture, technical teaching aids, employees for presenting educational information to a large audience (multimedia projector, computer (laptop), screen), demonstration equipment, educational visual aids
Worker	Educational audience to conduct classes Seminary like, Group And individual- AL consultations, Current control And midterm assessment	Specialized educational furniture, technical means training(multimedia projector, computer (laptop), screen), etc.
Reporting	Educational laboratory «_____», _____	Specialized laboratory equipment according to the laboratory profile:
	Computer class with Internet access _____	Specialized educational furniture, technical means training(multimedia projector, computer (laptop),screen),licensed software
	Computer class with Internet access B-600a	Specialized educational furniture for 30 seats, 30 computers, technical teaching aids (multimedia projector, computer (laptop), screen), video cameras, software security
Independent Job	Computer class with Internet access B-600a	Specialized educational furniture for 30 Landing places, 30 computers, technical teaching aids (multimedia- projector, computer (laptop), screen), video cameras, software

		security
	The library's reading room	Specialized furniture, computer equipment with Internet access and access to the electronic information system, a screen, multimedia projector, software

## 9. Conditions conducting practices for health and disability opportunities

Internships for students with disabilities and those with limited health capabilities are conducted taking into account the characteristics of their psychophysical development, individual capabilities, and health status.

Internship locations are selected based on their health status and accessibility requirements. When determining internship locations for individuals with disabilities and special needs, recommendations from medical and social assessments, as reflected in the individual's individual rehabilitation program, regarding recommended conditions and types of work are taken into account. If necessary, special workstations are created for internships based on the nature of the impairment, as well as the professional activity and nature of the work performed by the student with disabilities.

The types of practical training for people with disabilities and limited health opportunities are:

- work in the library to compile a catalog of literary sources for studying the issues included in the internship program;
- work in laboratories and centers at the graduating/basic department;
- elaboration of issues provided for by the internship program, comparative analysis of the studied material, formation of conclusions and proposals;
- preparation of material for a presentation at a scientific and practical conference and an article for a collection of papers based on the results of the internship;
- participation in international and Russian conferences;
- consultation with the internship supervisor on issues of interest related to the internship;
- preparation and defense of the internship report.

**Changes and approvals for the new academic year**

Item No.	Section number of amendments	Date of modification	Contents of the changes	"Agreed"Head of the Department of Implementation	"Agreed"Chairman of the Institute's UMK (faculty), which includes the graduating
1	2	3	4	5	6
1					
2					
3					



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## EVALUATION MATERIALS

### **B2.V.01(I) Industrial practice (design and technological)**

*(Name of educational/industrial practice in accordance with the educational program)*

Assessment materials for industrial practice (project-technological) - designed to evaluate learning outcomes for compliance with competency achievement indicators.

The assessment of learning outcomes in a discipline is carried out within the framework of current monitoring (CM) and interim assessment, conducted using a point-rating system (PRS).

Ongoing monitoring of academic performance ensures the assessment of the learning process through practical training and is carried out in the form of individual and/or group surveys (oral or written); defense of project presentations and other assignments completed individually or by a group of students; monitoring of students' independent work, etc. (select or add as needed).

The purpose of midterm assessment is to determine the level of achievement of planned learning outcomes for practical training over a certain period and is carried out in the form of a test with an assessment.

Assessment materials include tasks for ongoing monitoring of academic performance and midterm assessment of students, developed in accordance with the work program (educational/industrial) practice.

## 1. Technological map

Semester   6  

Stage name	Rating indicators					
	Forms and types of control	I current control	II current control	III current control	Total	Interim assessment
<b>Preparatory</b>	<b>TK1</b>	<b>5</b>			<b>5</b>	
Oral individual survey		5				
<b>Worker</b>	<b>TK2</b>		<b>30</b>		<b>30</b>	
Oral individual survey			30			
<b>Reporting</b>	<b>TK3</b>			<b>20</b>	<b>20</b>	
Oral individual survey				20		
Interim assessment (credit test)	<b>OM</b>					0-45

## 2. Assessment materials for ongoing monitoring and midterm assessment

Learning outcomes assessment scale for the discipline:

Competence code	Competency indicator code	Planned learning outcomes for the discipline	Level of development competence indicator			
			High	Average	Below average	Short
			from 85 to 100	from 70 to 84	from 55 to 69	from 0 to 54

			Rating scale			
			Great	Fine	satisfactory	dissatisf action telno
			passed			not credited
PC-1 Able to analyze the effectiveness of the existing management structure of the organization in order to develop proposals for its improvement, in accordance with the strategy implemented by the organization, based on advanced information technologies	PC-1.1 Analyzes the existing management structure of the organization and the basic principles of analyzing its effectiveness, with the aim of developing proposals for streamlining the management structure in line with the strategy implemented by the organization.	know: strategies for solving problems in project activities				
			Level of knowledge of problem solving strategies in project activities in a volume corresponding to the training program, without mistakes	Level of knowledge of problem solving strategies in project activities in a volume corresponding to the program, there are several minor errors	Minimum acceptable level of knowledge of problem solving strategies in the designand activities , there are many minor errors	Level of knowledge of problem solving strategies in the project activities below the minimum requirements, there are gross mistakes
		be able to: assess the need for additional information to implement the organization's strategy				
		Demonstrated that's all basic skills to assess the need for additional information for implementation and organizational strategies in full	Demonstrated that's all basic skills to assess the need for additional information for implementation and organizational strategies in full, but With some shortcomings	Demonstrated basic skills to assess the need for additional information for implementation and organizational strategies  With not rude and without mistakes completed all tasks, but not in full	When solving standard problems  basic skills to assess the need for additional implementation information have not been demonstrated organizational strategies take place gross errors	
		own: skills developments strategies design activities				

			Demonstrated development skills strategies in project and activities without errors and shortcomings	Demonstrated basic development skills strategies in project activities With some shortcomings	There is a minimum set of development skills strategies in project and activities With some shortcomings and	When solving standard problems basic development skills have not been demonstrated strategies in project activities, there are rough mistakes
PC-1 Able to analyze the effectiveness of the existing management structure of the organization in order to develop proposals for its improvement, in accordance with the strategy implemented by the organization, based on advanced information technologies	PC-1.3 Uses advanced information technologies to process and analyze information in order to organize work on designing methods for implementing management processes.	know: advanced information technologies for processing and information analysis				
			Level of knowledge of basic information technologies for processing and information analysis in a volume corresponding to the training program, without mistakes	Level of knowledge of basic information technologies for processing and information analysis in a volume corresponding to the program, there are several minor errors	Minimum acceptable level of information technology for processing and information analysis and, there are many minor errors	When solving standard problems basic information technology skills have not been demonstrated for processing And information analysis, there are gross errors
		be able to: develop organizational, technical and organizational and economic documentation taking into account the project life cycle				
			Prodemonstriro-Vans all the main	Demonstratedthat's all main	Demonstrated main	When deciding standard

			ones			
			skills to develop organizational and technical	skills basic skills to develop organizational and technical	skills basic skills to develop organizational and technical	tasks basic skills to develop organizational and technical
			And organizational and economic documentation taking into account vital cycle project in full	And organizational and economic documentation taking into account vital cycle project with rough and errors completed all tasks in full, but With some short comings	And organizational and economic documentation taking into account vital cycle project with rough and errors completed all tasks, but not in full	and organizational and economic documentation taking into account vital during the project cycle, gross errors occur
		possess: skills in the formation and justification of the goals and objectives of research and design developments, survey work, determining the significance and necessity of their implementation, ways and methods for solving them				

			Demonstrated skills of formation and justification goals and research objectives And design developments, survey work, definitions	Demonstrated basic skills of formation and justification goals and research objectives And design developments, surveys works	There is a minimum set of skills for formation and justification goals and research objectives And design developments, surveys works,	When solving standard problems basic skills for formation were not demonstrated Vaniya and justification on goals and research objectives and
			and the meaning and necessity they were carried out and, ways and methods of their solutions in the volume corresponding to the training program, without mistakes	definition of meaning and necessity they were carried out and, ways and methods of their solutions with some shortcomings	definition of meaning and necessity they were carried out problems, ways and methods of solving them for writing report on practice and summed up and the results with some shortcomings and	design developments, survey work, determination of the value and necessity the possibilities of their implementation, ways and methods of solving them for writing report on practice and summing up the results, there are gross mistakes
		know: modern management theories, principles, methods and techniques for assessing assets, investment projects and organizations; methods for constructing conceptual, mathematical and simulation models; methods				

PC-2 Able to develop strategies for the organization with the aim of adapting its production and economic activities to changing external and internal market conditions in order to ensure investment attractiveness and competitiveness in the modern global economy	PC-2.1 Participates in the development of proposals for specific areas of market research with the aim of determining the prospects for the strategic development of the organization.	forecasting, technical and economic research				
			Level of knowledge of modern management theories, principles, methods and techniques for assessing assets, investment projects and organizations;	Level of knowledge of methods of modern management theories, principles, methods and techniques for assessing assets, investment projects and organizations	The minimum acceptable level of knowledge of modern management theories, principles, methods and techniques for assessing assets, investments	Level of knowledge of methods of modern management theories, principles, methods and methods of assessing assets, investment projects and
			methods of constructing conceptual, mathematical and simulation models; forecasting methods, technical and economic research in a volume corresponding to the training program,	methods of constructing conceptual, mathematical and simulation models; forecasting methods, technical and economic research in a volume corresponding to the program, there are	projects and organizations; methods for constructing conceptual mathematical and simulation models; forecasting methods, technical and economic studies, there are many minor	organizations; methods of constructing conceptual, mathematical and simulation models; forecasting methods, technical and economic studies below the

			without mistakes	several minor errors	errors	minimum requirements, there are gross errors
		<i>Be able to: and</i> use information technology and tools in the development of innovative projects, apply automation tools in design and production preparation				
			Demonstrated that's all basic skills in using information technology And tools for developing innovative projects, apply means	Demonstrated that's all basic skills in using information technology And tools for developing innovative projects, apply means	Demonstrated basic skills in using information technology And tools for developing innovative projects, apply means	When solving standard problems basic skills in using information technology have not been demonstrated And tools for development
			automations in design and preparation of production in full	automations in design and preparation of production in full, but some with flaws	automations in design and preparation of production not rude and without mistakes, completed All tasks, but Not in full	innovative projects, apply automation tools for design in the preparation and preparation of production, there are gross errors

		Own:skills in managing promising areas for improving methods, models and mechanisms of strategic and tactical planning in project activities				
			Demonstrated skills for managing promising areas improvement of methods, models and mechanisms strategic and tactical planning the design and activities without errors and short comings	Demonstrated basic skills for managing promising areas improvement of methods, models and mechanisms strategic and tactical planning in project activities With some short comings	There is a minimum set of skills for managing promising areas improvement of methods, models and mechanisms strategic and tactical planning in the design and activities With some short comings and	When solving standard problems basic skills in managing promising areas for improving methods, models and mechanism sm of strategic and tactical planning in the design y activity, take place gross errors
PC-3 Able to use advanced domestic and foreign experience in the field of organizational management to	PC-3.1 Analyzes advanced domestic and foreign experience in the field of organizational management.	know: domestic and foreign experience in the field of management organizations				
			Level of knowledge of the domestic and foreign experience in the field of organizational management, without errors	Level of knowledge of basic domestic and foreign experience in the field of organizational management in a volume corresponding to the program, there are several	The minimum acceptable level of knowledge of domestic and foreign experience in the field of organizational management, there are many minor mistakes	When solving standard problems basic knowledge of the homeland has not been demonstrated domestic and foreign experience in the field of

prepare balanced management decisions, taking into account the influence of the modern socio-economic environment.				minor errors		management of the organization, there are gross errors
	be able to: based on economic and strategic analysis to calculate the key indicators of the project office					
		Demonstrated are any all the main one skills based on economic and strategic analysis to calculate key indicators and design about the office in full	Demonstrated that's all Main skills based on economic and strategic analysis to calculate key indicators and design about the office with a non-rude and mistakes, completed All tasks in full, but With some shortcomings	The main ones are demonstrated skills based on economic and strategic analysis to calculate key indicators and design about the office with a non-rude and mistakes, completed all tasks, but not in full	When solving standard problems basic skills not demonstrated based on economic Eskogo and strategic analysis to calculate key indicators and design office, there are gross errors	
	Own: composing skills reports and presentations based on the results of analytical work					
		Demonstrated composing skills reports and presentations on results of analytical work without errors and shortcomings	Basic writing skills demonstrated reports and presentations on results of analytical work, but With some shortcomings	There is a minimum set of skills for setting up compiled reports and presentations on results of analytical work with some shortcomings and	When solving standard problems basic writing skills have not been demonstrated reports and presentations Based on the results of analytical work, there are	

						gross mistakes
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An "**excellent**" grade is awarded for completing the calculation work during the semester; test assignments; a deep understanding of the technological methods for calculating material consumption rates; complete and informative answers to the questions on the exam (theoretical and practical assignments);

A grade of "**good**" is awarded for completing calculations during the semester; test assignments; understanding of technological methods for calculating material consumption rates; answers to questions on the exam (theoretical or practical assignment);

The grade "**satisfactory**" is given for the completion of calculation work during the semester and test assignments;

The grade "**unsatisfactory**" is given for weak and incomplete completion of calculations in the semester and test assignments.