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.02(I) Industrial practice (research work)

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	24.02.2065	Protocol №6	Director, Ph.D., Associate Professor, Zainullin R.R.

1. Goals, objectives, and planned learning outcomes for academic/industrial training

The aim of the internship is to prepare students for independent scientific research work, conducting scientific research, and the ability to reflect the results obtained in the form of scientific publications, author's conclusions, and scientific research developments, as well as to acquire the necessary skills and abilities for scientific analysis in the field of management.

The objectives of the internship are:

- general familiarization with the activities, organizational and legal form, and production process management system;
- develop practical skills in performing analytical work;
- master the skills of working with bibliographic and patent sources using modern information technologies;
- develop skills in formulating the relevance, problem situations, goals, and objectives of research;
- master methods of analyzing the results obtained and presenting them in the form of completed research projects (research reports, abstracts, scientific articles, term papers).

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-1.2 Demonstrates the ability to develop proposals for improving the management of the organization and effectively identifying reserves, using available resources to ensure the innovative activities of the organization.
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-2.3 Based on big data analysis and using modern digital tools, develops analytical materials to monitor and analyze the implementation of the organization's strategy in the changing external and internal conditions of the global market to ensure investment attractiveness and competitiveness.
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	PC-3.2 Participates in the development of balanced management decisions, taking into account the influence of the external and internal socio-economic environment.

socio-economic environment.	
PC-4 Able to develop potential solutions based on target indicators developed for them, with the aim of implementing effective project activities of the organization.	PC-4.3 Analyzes stakeholder requirements in terms of quality criteria defined by selected approaches.

2. Place of educational (industrial) practice in the structure of the EP

Industrial practice (design and technology) is a mandatory part of the curriculum for the 38.03.02 Management specialization.

3. Forms and methods of conducting practical training

Method of conducting the practical training: inpatient, outpatient

inpatient, outpatient

Form of practical training ___discrete _____

continuous, discrete

Methods and forms of conducting practical training for persons with limited health capabilities and disabilities.

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

- All elements in the work area must be securely fastened;
- If necessary, additional space must be provided for persons with disabilities (e.g., wheelchair users);
- If necessary, additional lighting for the workplace may be provided.
- All equipment and furniture used by a disabled person who uses a wheelchair must be located within reach.
- A workplace that involves working on a computer must be equipped with a special keyboard and mouse, if necessary..

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

4. Location and time of the internship

The practical training is conducted in the_____4th__year(s) in the _____7th____semester(s). Duration of practical training (weeks)_2_____

The place(s) where the internship takes place is KSPEU

5. Scope, structure, and content of the practical training

5.1. Scope of practical training

For dispersed

Type of academic work	Total CP	Total hours	Semester 4
TOTAL WORKLOAD OF THE PRACTICAL TRAINING	3	108	108
INDEPENDENT WORK OF THE STUDENT	3	108	108
Intermediate certification:	Credit with grade		

5.2. Structure and content of the practical training

№ п/п	Stages (phases) and content of the practical training	Competency codes with indicators	Assessment tools and current control forms
1	2	3	7
1	**Preparatory stage**		
1.1	Briefing, preparation of documents for practical training	PC-4.3	Oral individual interview
2	**Working stage ***		
2.1	Familiarization with the rules for collecting information for the internship. Study of the areas of analytical work according to the approved list of the department. Familiarization with the topics of analytical work. Literature review of the necessary sources.	PC-3.2	Oral individual interview
2.2	Studying the methodology and methods of scientific research in the field of contemporary management and project management issues. Conducting research and formulating research hypotheses for specific projects of Russian and foreign companies. Writing an article for the Russian Science Citation Index (RSCI).	PC-2.3	Oral individual interview
3	**Reporting stage**		
3.1	Preparation of the necessary documents for the training practice, final report, and diary in accordance with the established procedure	PC-1.2	Oral individual interview

** The content of the work stage is determined depending on the type and nature of the practical training*

5.3. List of sample individual practical assignments

- conduct an analytical analysis of the creation and implementation of an advertising campaign using the example of the Lucky Rolls organization and write an article for the RSCI;

- conduct an analytical analysis of management using a project-based approach and with the goal of effective sustainable development of the organization, taking into account the concept of sustainable development, and write an article for the RSCI;

- conduct an analytical review of the state and development of land reclamation in Russia and write an article for the RSCI;
- conduct an analytical review of the characteristics of theme parks and write an article for the RSCI;

- conduct an analytical review of investment policy research at electric power companies and write an article for the RSCI.

6. Evaluation of practical training resultsп

The assessment of practical training results is carried out as part of ongoing performance monitoring and interim assessment.

Ongoing performance monitoring is carried out throughout the practical training period and includes individual oral interviews.

Interim assessment of practical training is carried out in the form of a credit with a grade, which is conducted in the form of a public defense of the practical training report. The final assessment for the practical training is the grade given during the interim assessment of the student, taking into account the results of ongoing performance monitoring and the review with an assessment of the student's performance submitted by the practical training supervisor from the relevant organization.

At the end of the practical training, the student submits the reporting documentation:

№ п/п	List of reporting documentation
1	Copy of the student's practical training agreement*
2	Copy of the administrative document appointing the head of practical training from among the employees of the relevant organization
3	Approved individual assignment for practical training with a work schedule (plan), agreed upon by the practical training supervisor from the relevant organization
4	Practical training diary with a note on completion of introductory safety training and workplace safety training, signed by the practical training supervisors from the relevant organization and the KSPEU
5	A review with an assessment of the practical training supervisor from the relevant organization, certified by the signature and seal of the relevant organization (included in the practical training log)
6	Student's report on practical training, compiled in accordance with the requirements

** Not required when completing an practical training in structural divisions of the KSPEU, at base departments, and in the presence of long-term cooperation agreements on the organization of student practical training*

Practical training assessment scale:

<table>
<tr><td rowspan="6">Com-petency code</td><td rowspan="6">Competency indicator code</td><td rowspan="6">Planned learning outcomes for the discipline</td><td colspan="4">Level of competence indicator formation</td></tr>
<tr><td>High</td><td>Average</td><td>Below average</td><td>Low</td></tr>
<tr><td>from 85 to 100</td><td>from 70 to 84</td><td>from 55 to 69</td><td>from 0 to 54</td></tr>
<tr><td colspan="4">Grading scale</td></tr>
<tr><td>excellent</td><td>good</td><td>satisfactory</td><td>unsatisfactory</td></tr>
<tr><td colspan="3">passed</td><td>failed</td></tr>
<tr><td></td><td></td><td colspan="4">To know: a systemic approach to solve the tasks set,
various methods of analysis and synthesis, finding the necessary information and its critical analysis</td></tr>
</table>

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-1.2 Demonstrates the ability to develop proposals for improving the management of the organization and effectively identifying reserves, using available resources to ensure the innovative activities of the organization.		Level of proficiency in the systematic approach to solving assigned tasks, a variety of methods of analysis and synthesis, searching for necessary information and critically evaluating it to the extent required by the training program, without any mistakes	Level of knowledge of the systematic approach to solving the assigned tasks, various methods of analysis and synthesis, searching for necessary information and critically evaluating it to the extent required by the curriculum; there are a few minor mistakes	A minimum acceptable level of knowledge of a systematic approach to solving the assigned tasks, a variety of methods of analysis and synthesis, searching for the necessary information, and critically evaluating it; there are many minor mistakes.	Knowledge of the systematic approach to solving assigned tasks, various methods of analysis and synthesis, and the ability to locate and critically evaluate necessary information falls below minimum requirements; serious mistakes are made
		Mastery of: the fundamentals of abstract thinking, methods of synthesis and analysis, and a systems approach				
			Skills in mastering the fundamentals of abstract thinking, as well as methods of synthesis and analysis, have been demonstrated in writing a practical training report and drawing conclusions when solving non-standard problems without mistakes or	Basic skills in abstract thinking and methods of synthesis and analysis have been demonstrated in the preparation of a report on practical training and in summarizing the results of solving standard problems, albeit with some shortcomings	Minimal set of skills in the fundamentals of abstract thinking, synthesis, and analysis for writing a report on practical training and summarizing findings to solve standard	In solving standard problems, basic skills in abstract thinking and methods of synthesis and analysis — necessary for writing a report on the practical

			omissions		problems, with some shortcomings	training and summarizing the results—are not demonstrated, and serious mistakes are made
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-2.3 Based on big data analysis and using modern digital tools, develops analytical materials to monitor and analyze the implementation of the organization's strategy in the changing external and internal conditions of the global market to ensure investment attractiveness and competitiveness.	Must-know: The Basics of Big Data Analysis				
			A solid understanding of the fundamentals of big data analysis, commensurate with the curriculum, without mistakes	The level of knowledge of the fundamentals of big data analysis, as required by the curriculum, contains a few minor mistakes	The minimum acceptable level of knowledge of the fundamentals of big data analysis is such that many serious mistakes are made	Knowledge of the fundamentals of big data analysis falls below minimum requirements, and there are significant mistakes
		Ability to monitor and analyze the implementation of the organization's strategy				
			All key skills for monitoring and analyzing the full implementation of the organization’s strategy have been demonstrated	All the basic skills required to search for necessary information and critically analyze it were demonstrated, with only minor mistakes, all tasks were completed in full, though with some shortcomings	The basic skills required to search for and critically analyze the necessary information have been demonstrated, with only minor mistakes, all assignments have been completed, though not in full	In solving standard problems, the basic skills required to search for and critically analyze necessary information are not demonstrated, and significant mistakes are made
		Be proficient in: methods for analyzing the internal conditions of the global market to ensure investment attractiveness and competitiveness				
			The skills required to analyze the	The basic skills required to analyze the	A minimum set of	In solving standard problems,

			internal conditions of the global market in order to ensure investment attractiveness and competitiveness have been demonstrated without mistakes or shortcomings	internal conditions of the global market in order to ensure investment attractiveness and competitiveness have been demonstrated, albeit with some shortcomings	skills is available for analyzing the internal conditions of the global market to ensure investment attractiveness and competitiveness, albeit with some shortcomings	basic skills in analyzing the internal conditions of the global market to ensure investment attractiveness and competitiveness are not demonstrated, and serious mistakes are made
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	PC-3.2 Participates in the development of balanced management decisions, taking into account the influence of the external and internal socio-economic environment.	Must know: the basic principles of conducting an organizational effectiveness analysis				
			Demonstration of knowledge of the basic principles of organizational effectiveness analysis to the extent required by the training program, without mistakes	The level of understanding of the basic principles of organizational performance analysis, as outlined in the curriculum, shows a few minor mistakes	Minimum acceptable level of knowledge of the basic principles of organizational effectiveness analysis; there are many minor mistakes	Knowledge of the basic principles of organizational effectiveness analysis falls below minimum requirements, and there are serious mistakes

environment.						
		Be able to: develop proposals for streamlining the management structure in line with the organization’s current strategy				
			All key skills required to develop proposals for streamlining the management structure in line with the organization’s current strategy have been fully demonstrated	All the basic skills required to develop proposals for streamlining management structures in line with the organization’s current strategy have been demonstrated with few errors; all assignments have been completed in	Basic skills in developing proposals for streamlining management structures in accordance with the organization’s current	In solving standard tasks, the candidate has not demonstrated the ability to develop proposals for streamlining management structures in
				full, though some contain minor flaws	strategy have been demonstrated with few mistakes, all tasks were completed, but not in full	accordance with the organization’s current strategy; significant mistakes have been made
		Be able to: analyze the existing organizational structure and its effectiveness				
			Demonstrated proficiency in analyzing the existing organizational structure and its effectiveness, without mistakes or shortcomings	The skills required to analyze the existing organizational structure and its effectiveness, including certain shortcomings, have been demonstrated	A minimum set of skills is available for utilizing existing resources to analyze the current organizational structure and its effectiveness, with some shortcomings	In solving standard problems, the student has not demonstrated basic proficiency in methods for analyzing the existing organizational structure and its effectiveness; there are significant mistakes

PC-4 Able to develop potential solutions based on target indicators developed for them, with the aim of implementing effective project activities of the organization	PC-4.3 Analyzes stakeholder requirements in terms of quality criteria defined by selected approaches.	Must know: key quality indicators in management				
			Knowledge of key quality indicators in management, in accordance with the training program, without mistakes	The level of knowledge regarding key quality indicators in management, as outlined in the curriculum, contains a few minor mistakes	The minimum acceptable level of knowledge regarding key quality indicators in management is such that many minor mistakes occur	Knowledge of key quality indicators in management falls below minimum requirements, and serious mistakes are made
		Be able to: analyze stakeholder requirements				
			All key skills required to conduct a comprehensive analysis of stakeholder requirements have been demonstrated	All the basic skills required to analyze stakeholder requirements were demonstrated with few errors; all assignments were completed in full, though some had minor flaws	The basic skills required to analyze stakeholder requirements were demonstrated, while there were some minor mistakes, all tasks were completed, though not in their entirety.	In solving standard tasks, the ability to analyze stakeholder requirements in accordance with the organization's strategy has not been demonstrated, and significant mistakes have been made

		Must have: the skills to select and implement methods for individually motivating production managers to perform their job duties diligently and creatively				
			The skills demonstrated include the selection and implementation of methods to individually motivate production managers to	The basic skills for selecting and implementing methods to individually motivate production managers to perform their	Minimal set of skills for selecting and implementing methods to motivate	In solving standard tasks, there is a lack of demonstrated ability to select and implement methods for motivating
			perform their job duties conscientiously and creatively, without mistakes or shortcomings	job duties conscientiously and creatively, albeit with some shortcomings, have been demonstrated	production managers to perform their job duties conscientiously and creatively, with some shortcomings	production managers to perform their job duties conscientiously and creatively; serious mistakes are made

An **«excellent»** grade is awarded for *completing the semester's calculation assignments and test questions; demonstrating a thorough understanding of the methods used to calculate material consumption rates; and providing comprehensive and substantive answers to the exam questions (theoretical and practical tasks);*

A **«good»** grade is awarded for *completing the semester's calculation assignments and tests; demonstrating an understanding of the methods used to calculate material consumption rates; and answering the questions on the exam (theoretical or practical assignment);*

A **«satisfactory»** grade is awarded for the *completion of term assignments and quizzes;*

An **«unsatisfactory»** grade is awarded for *poor or incomplete completion of term assignments and quizzes*.

5.1.1. Main literature

1. Tarasenko, F. P., Applied Systems Analysis: A Textbook / F. P. Tarasenko. — Moscow: KnoRus, 2022. — 321 c. — ISBN 978-5-406-09439-6. — URL: https://book.ru/book/943112. — Text: electronic.

2. Popov, V. N., Systems Analysis in Management: A Textbook / V. N. Popov, V. S. Kasyanov, I. P. Savchenko. — Moscow: KnoRus, 2023. — 297 c. — ISBN 978-5- 406-10844-4. — URL: https://book.ru/book/946954. — Text: electronic.

3. System Analysis in Management: Textbook / K. S. Drohobychka, S. G. Zbrishchak, N. I. Malyshev [et al.]; edited by I. N. Drohobychkyi. — Moscow: KnoRus, 2023. — 677 c. — ISBN 978-5-406-10308-1. — URL: https://book.ru/book/947352. — Text: electronic.

5.1.2. Additional Literature

1. Tsvetkov, V. Y. Fundamentals of Complex Systems Theory: A Textbook / V. Ya. Tsvetkov. — Saint Petersburg: Lan, 2022. — 152 c. — ISBN 978-5-8114-3509-8. — Text: electronic // Lan: electronic library system. — URL: https://e.lanbook.com/book/206375.

2. Matveev, A. I. Mathematical Methods of System Analysis: A Textbook for Universities / A. I. Matveev. — 2nd ed., rev. — Saint Petersburg: Lan, 2021. — 128 p. — ISBN 978-5-8114-6686-3. — Text: electronic // Lan: electronic library system. — URL: https://e.lanbook.com/book/151666.

7.2.3. Licensed and freely distributable software for the course

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

SQL Server Enterprise Edition 2008R2 Russian OpenLicensePack NoLevel AcademicEdition Enterprise data management platform. Software product for messaging and collaboration by SoftLineTrade CJSC No. 32081/KZN12 dated March 14, 2011

Windows Server CAL 2008 Russian Open License Pack NoLevel Academic Edition Usr CAL Server operating system from Microsoft.

3AO SoftLineTrade №32081/KZN12 от 14.03.2011

SQL CAL 2008R2 Russian OpenLicensePack NoLevel AcademicEdition UsrCAL A server operating system from Microsoft. SoftLineTrade CJSC No. 32081/KZN12 dated March 14, 2011

8. Logistical support for the practical training

Title of the academic assignment	Name of the classroom or specialized laboratory	List of required equipment and teaching aids
Preparatory	A classroom for lecture-style classes	Specialized classroom furniture and technical teaching aids used to present educational content to a large audience (multimedia projector, computer (laptop), screen), demonstration equipment, and visual teaching aids
Practical	Classroom for conducting seminars, group and individual consultations, ongoing assessments, and midterm exams	Specialized classroom furniture, technical teaching aids (multimedia projector, computer (laptop), screen), etc.
Reporting	Training Lab «_____», _____	Specialized laboratory equipment relevant to the laboratory's field of work:
	Computer lab with Internet access _____	Specialized classroom furniture, technical teaching aids (multimedia projector, computer (laptop), screen), licensed software
	Computer lab with Internet access B-600a	Specialized classroom furniture for 30 students, 30 computers, technical teaching aids (multimedia projector, laptop, screen), video cameras, software
Independent Work	Computer lab with Internet access B-600a	Specialized classroom furniture for 30 students, 30 computers, audiovisual equipment (multimedia projector, laptop, screen), video cameras, software

	Reading Room of the library	Specialized furniture, computer equipment with Internet access and access to the EIOS, a monitor, a multimedia projector, and software

9. Terms and conditions for practical training for individuals with disabilities

Practical training for students with disabilities and those with special needs is conducted with due consideration for the characteristics of their physical and mental development, individual capabilities, and health status.

The selection of internship sites is made taking into account their health status and accessibility requirements. When determining internship sites for students with disabilities and persons with disabilities, the recommendations of the medical and social assessment, as reflected in the individual rehabilitation program of the person with a disability, regarding recommended conditions and types of work are taken into account. If necessary, special workstations are created for the internship in accordance with the nature of the disabilities, as well as taking into account the professional field of activity and the nature of the work functions performed by students with disabilities.

The types of internships for individuals with special needs and disabilities include:

- work in the library compiling a catalog of literary sources for studying topics included in the internship program;
- work in laboratories and centers affiliated with the graduating/base department;
- examination of topics covered by the internship program, comparative analysis of the studied material, and formulation of conclusions and recommendations;
- preparing, based on the results of the internship, materials for a presentation at a scientific-practical conference and an article for a collection of works;
- participating in international and Russian conferences;
- consulting with the internship supervisor on relevant issues related to the internship;
- preparing and defending the internship report.

№ п/п	Section № for amendments	Date of amendment	Summary of changes	“Approved” by the Head of the Department	“Approved” by the Chair of the Academic Council of the institute (faculty) to which the graduating class belongs
1	2	3	4	5	6
1					
2					
3					

Appendix to the practical training program

KSPEU

MINISTRY OF SCIENCE AND HIGHER EDUCATION OF THE RUSSIAN FEDERATION
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(FSBEI HE «KSPEU»)

ASSESSMENT MATERIALS

B2.V.02(I) Industrial practice (research work)

(Title of the academic/industrial internship in accordance with the Academic Regulations)

Field of study _____38.03.02 Organizational Management_____
(Code and name of the program)

Qualifications Bachelor's Degree
(Bachelor's / Master's)

Kazan, 2026

Assessment materials for the industrial internship (research project) are designed to evaluate learning outcomes against competency achievement indicators.

Assessment of learning outcomes for the course is conducted through ongoing assessment (OA) and midterm evaluation, carried out using the point-based rating system (PS).

Ongoing performance monitoring ensures the assessment of the practical training process and is conducted in the form of individual and/or group questioning (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 as appropriate or add).

Interim assessment aims to determine the level of achievement of planned learning outcomes for the practical training over a specific period and is conducted in the form of a graded assessment.

Assessment materials include tasks for ongoing progress monitoring and interim assessment of students, developed in accordance with the work program (academic/industrial) for the practical training.

1. Process flow chart

Semester _7___

Stage Name	Rating metrics					
	Forms and types of	I Ongoing monitoring	II Ongoing	III Ongoing	Total	Midterm assessment
Preparatory	**OM1**	**5**			**5**	
Individual oral interview		5				
Working	**OM2**		**30**		**30**	
Individual oral interview			30			
Reporting	**OM3**			20	**20**	
Individual oral interview				20		
Midterm assessment (graded exam)	**EA**					0-45

2. Assessment materials for ongoing monitoring and midterm evaluations

3. Grading scale for assessment of learning outcomes in the course:

Competency code	Competency indicator code	Expected learning outcomes for the course	Level of development of the competency indicator			
			High	Average	Below average	Low
			from 85 to 100	from 70 to 84	from 55 to 69	from 0 to 54
			Grading scale			

			exellent	good	satisfactory	unsatisfactory
			passed			failed
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-1.2 Demonstrates the ability to develop proposals for improving the management of the organization and effectively identifying reserves, using available resources to ensure the innovative activities of the organization.	Knowledge: a systematic approach to solving problems, a variety of methods for analysis and synthesis, and the ability to locate and critically evaluate relevant information				
			Level of knowledge of a systematic approach to solving assigned tasks, various methods of analysis and synthesis, searching for necessary information, and critically evaluating it, to the extent required by the training program, without mistakes	Level of knowledge regarding a systematic approach to solving the given problems, various methods of analysis and synthesis, searching for necessary information, and its critical analysis, to the extent required by the curriculum; there are a few minor mistakes	The minimum acceptable level of knowledge regarding a systematic approach to solving the given problems, various methods of analysis and synthesis, and the search for and critical analysis of necessary information; there are many minor mistakes	The level of knowledge regarding a systematic approach to solving assigned tasks, various methods of analysis and synthesis, and the ability to locate necessary information and critically analyze it falls below minimum requirements; serious mistakes are made
		Be able to: search for relevant information, critically analyze it, and synthesize the results of the analysis to solve the given problem				
			All key skills have been demonstrated, including	All basic skills were demonstrated, including the ability	Basic skills in searching for necessary informatio	In solving standard problems, the basic skills required to

			the ability to fully search for and critically analyze the necessary information	to search for necessary information and critically analyze it with few errors; all assignments were completed in full, though with some shortcomings	n and critically analyzing it were demonstrated, with few mistakes, and all assignments were completed, though not in full	search for and critically analyze necessary information are not demonstrated, and significant mistakes are made
		Master: the fundamentals of abstract thinking, methods of synthesis and analysis, and a systematic approach				
			Demonstrated proficiency in the fundamentals of abstract thinking and in methods of synthesis and analysis when writing a practicum report and summarizing findings while solving non-standard problems without mistakes or omissions	The basic skills in abstract thinking and methods of synthesis and analysis were demonstrated in the preparation of a practicum report and the drawing of conclusions when solving standard problems with some shortcomings	The minimum set of skills in the fundamentals of abstract thinking, synthesis, and analysis is available for writing a practicum report and summarizing findings to solve standard problems, albeit with some shortcomings	In solving standard problems, basic skills in abstract thinking and methods of synthesis and analysis—necessary for writing a practicum report and summarizing findings—are not demonstrated, and serious mistakes are made
PC-2 Able to develop		Must-know: The basics of big data analysis				
			A solid understanding of the fundamentals of big data	The level of knowledge of the fundamentals of big data	The minimum acceptable level of knowledge of the	The level of knowledge regarding the fundament

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-2.3 Based on big data analysis and using modern digital tools, develops analytical materials to monitor and analyze the implementation of the organization's strategy in the changing external and internal conditions of the global market to ensure investment attractiveness and competitiveness.		analysis, commensurate with the training program, with no mistakes	analysis is commensurate with the curriculum; there are a few minor mistakes	fundamentals of big data analysis is such that many serious mistakes are made	als of big data analysis falls below the minimum requirements, and there are significant mistakes
		Be able to monitor and analyze the implementation of the organization's strategy				
			All key skills required to fully monitor and analyze the implementation of the organization’s strategy	All basic skills were demonstrated, including the ability to search for necessary information and critically	Basic skills in searching for necessary information and critically analyzing it were demonstrated, with only minor	In solving standard problems, the basic skills required to locate necessary information and analyze

			have been demonstrated	analyze it with few mistakes, All assignments were completed in full, though with some shortcomings.	mistakes, All assignments were completed, but not in full.	it critically are not demonstrated, and significant mistakes are made
		Be proficient in: methods for analyzing the internal conditions of the global market to ensure investment attractiveness and competitiveness				
			Demonstrated proficiency in analyzing the internal conditions of the global market to ensure investment attractiveness and competitiveness, without mistakes or shortcomings	Basic skills in analyzing the internal conditions of the global market to ensure investment attractiveness and competitiveness have been demonstrated, albeit with some shortcomings	The minimum set of skills required to analyze the internal conditions of the global market in order to ensure investment attractiveness and competitiveness is in place, albeit with some shortcomings	In solving standard problems, basic skills in analyzing the internal conditions of the global market to ensure investment attractiveness and competitiveness are not demonstrated, and serious mistakes are made
PC-3 Able to use advanced domestic	PC-3.2 Participates in the	Must-know: Key principles of organizational performance analysis				
			Knowledge of the basic principles of organizational effectiveness	The level of knowledge regarding the basic principles of conductin	The minimum acceptable level of knowledge regarding the basic principles of	Knowledge of the basic principles of organizational effectiveness

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.	development of balanced management decisions, taking into account the influence of the external and internal socio-economic environment.		analysis to the extent required by the training program, without mistakes	g an organizational effectiveness analysis, as outlined in the curriculum, contains several minor mistakes	conducting an organizational effectiveness analysis; there are many minor mistakes	analysis falls below minimum requirements, and there are serious mistakes
		Be able to: develop proposals for streamlining the management structure in line with the organization's current strategy				
			All key skills required to develop proposals for streamlining management structures in full alignment with the organization's current strategy have been demonstrated	All the basic skills required to develop proposals for streamlining management structures in line with the organization's current strategy have been demonstrated with few errors; all	Basic skills in developing proposals for streamlining management structures in line with the organization's current strategy have been demonstrated; while there were some minor	In solving standard problems, skills in developing proposals for streamlining management structures in line with the organization's current strategy have not been demonstrated, and

				assignments were completed in full, though some contained minor shortcomings	mistakes, all assignments were completed, though not in full	serious mistakes have been made
		Be proficient in: methods for analyzing an organization’s existing structure and its effectiveness				
			Demonstrated proficiency in analyzing the existing organizational structure and its effectiveness, without mistakes or shortcomings	The skills in analyzing the existing organizational structure and its effectiveness—with some shortcomings—have been demonstrated	The minimum set of skills required to utilize available resources is present, along with the ability to apply methods for analyzing the existing organizational structure and its effectiveness, albeit with some shortcomings	In solving standard problems, basic skills in analyzing the existing organizational structure and its effectiveness are not demonstrated, and serious mistakes are made
PC-4 Able to develop potential solutions based on target indicators develope	PC-4.3 Analyzes stakeholder requirements	Must-know: Key performance indicators in management				
			Knowledge of key quality indicators in management to the extent required by the training program,	Level of knowledge of key quality indicators in management, to the extent required by the curriculu	The minimum acceptable level of knowledge regarding key quality indicators in management involves	Knowledge of key quality indicators in management falls below minimum requirements, and

d for them, with the aim of implementing effective project activities of the organization	in terms of quality criteria defined by selected approaches.		without mistakes	m; there are a few minor mistakes	many minor mistakes	serious mistakes are made
		Be able to: analyze stakeholder requirements				
			All key competencies required to conduct a comprehensive analysis of stakeholder requirements have been demonstrated	All key skills for analyzing stakeholder requirements were demonstrated without major mistakes; all tasks were completed in full, though some had	Basic skills in analyzing stakeholder requirements were demonstrated with few mistakes, and all tasks were completed, though not in full	In solving standard tasks, the ability to analyze stakeholder requirements in accordance with the organization's strategy has not been demonstrated, and significant
				minor shortcomings.		mistakes have been made
		Be proficient in: selecting and implementing methods to motivate production managers to perform their job duties conscientiously and creatively				
			Demonstrated skills in selecting and implementing methods to motivate production managers to perform their job duties conscientiously and creatively,	Basic skills in selecting and implementing methods of individual motivation for production managers have been demonstrated, aimed at ensuring	The minimum set of skills required for selecting and implementing methods to motivate production managers to perform their job duties conscientio	In solving standard tasks, the skills of selecting and implementing methods to motivate production managers to perform their job duties conscientio

			without mistakes or shortcomings	the conscientious and creative performance of their job duties, though with some shortcomings	usly and creatively is in place, albeit with some shortcomings	usly and creatively have not been demonstrated; serious mistakes have been made

An **«excellent»** grade is awarded for *completing the semester's calculation assignments and test questions; demonstrating a thorough understanding of the methods used to calculate material consumption rates; and providing comprehensive and substantive answers to the exam questions (theoretical and practical tasks);*

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

A **«satisfactory»** grade is awarded for *completing calculation assignments during the semester and test assignments;*

An **«unsatisfactory»** grade is awarded for *poor and incomplete completion of calculation assignments during the semester and test assignments*.