

MINISTRY OF DEFENCE OF UKRAINE

MILITARY ACADEMY (ODESA)

**EDUCATIONAL PROGRAMME OF THE COURSE
OF PROFESSIONAL MILITARY EDUCATION**

***PROFESSIONAL COURSE OF TACTICAL LEVEL
OF LOGISTICS FORCES (MATERIAL SUPPORT), L-1B(MS)***

**Military Accounting
Specialty**

*702300 "Organisation of the material support of
troops (forces), operation and repair of
technical equipment of the material
support service"*

APPROVED

by the Academic Council of the Military
Academy (Odesa) (protocol dated " ____ " ____
20_ No._)

Head of the Academic Council
Military Academy (Odesa)
Major General

Andrii KOVALCHUK

Put into effect by Order of the Commandant of
the Military Academy (Odesa) dated " __ " ____
20_ No.

**Odesa
2024**

**LETTER OF AGREEMENT
OF THE EDUCATIONAL PROGRAMME
OF THE PROFESSIONAL MILITARY EDUCATION COURSE**

**TACTICAL-LEVEL COMMAND AND STAFF COURSE
FOR LOGISTICS FORCES (MATERIAL SUPPLY), L-1V (MS)**

Military Speciality 702300 " *Organisation of the material support of troops (forces), operation and repair of technical equipment of the material support service*"

APPROVED

Director of the Department of Military Education and Science, Ministry of Defence of Ukraine

Volodymyr MIRNENKO
" ____ " _____ 20

APPROVED

Head of the Central Military Education Department, General Staff of the Armed Forces of Ukraine
Colonel

Oleh PAVLOVSKYI
" ____ " _____ 20

APPROVED

Commander of the Logistics Forces of the Armed Forces of Ukraine
Major General

Volodymyr KARPENKO
" ____ " _____ 20

Developed and submitted

Chairman of the working group

Head of the Department of Food and Material Supply, Faculty of Logistics Support Specialist Training, Military Academy (Odesa)
Colonel

Viktor OLEKHNOVYCH
" ____ " _____ 20

FOREWORD

Developed by the working group of the Logistics Forces Command of the Armed Forces of Ukraine and the Military Academy (Odesa).

Order of the Command of the Logistics Forces of the Armed Forces of Ukraine dated " ____ " _____ 2024 № ____.

Head of the working group:

OLEKHNOVYCH Viktor Dmytrovych - Head of the Department of Food and Material Supply, Faculty of Logistics Support Specialist Training, Military Academy (Odesa).

Members of the working group:

NOSULENKO Vitalii Oleksandrovych - Deputy Head of the Central Logistics Department of the Logistics Forces Command of the Armed Forces of Ukraine;

BULHAKOV Ruslan Valeriiovych – PhD in Technical Sciences, Associate Professor, Head of the Department of Troop (Forces) Support, Faculty of Logistics Support Specialist Training, Military Academy (Odesa);

VERKHOVODOV Oleksandr Serhiiovych - Deputy Head of the Department of Food and Material Supply, Faculty of Logistics Support Specialist Training, Military Academy (Odesa).;

BABIUK Serhii Nikonorovych - PhD in Military Sciences, Professor of the Department of Food and Material Supply, Faculty of Logistics Support Specialist Training, Military Academy (Odesa);

BURDEINA Nadiia Mykolaivna - PhD in Economics, Associate Professor, Associate Professor of the Department of Food and Material Supply, Faculty of Logistics Support Specialist Training, Military Academy (Odesa);

YAKYMYNSKA Liubov Viktorivna, PhD in History, Associate Professor, Lecturer of the Department of Food and Material Supply, Faculty of Logistics Support Specialist Training, Military Academy (Odesa);

SMUTOK Valentyn Ivanovych - Senior Lecturer of the Department of Food and Material Supply, Faculty of Logistics Support Specialist Training, Military Academy (Odesa).

ACCOUNTED FOR:

- 1. Professional standard of a tactical officer of the Armed Forces of Ukraine.*
- 2. Comments from internal and external stakeholders.*
- 3. Proposals from students.*
- 4. Experience in combat operations.*

I. PROFILE OF THE EDUCATIONAL PROGRAMME OF THE PROFESSIONAL MILITARY EDUCATION COURSE

1 - General Information	
Full name of the higher education institution	Military Academy (Odesa)
Title of the Document on Completion and Scope of the Educational Programme of the Professional Military Education Course	<p style="text-align: center;">Certificate of completion of the course "Professional course of the tactical level of the Logistics Forces (material support), L-1B (MS), under VOS 702300".</p> <p style="text-align: center;">Scope of the educational programme: 30 ECTS credits.</p>
Prerequisites	<p>Availability or obtaining (for cadets) a higher education degree not lower than a bachelor's degree;</p> <p>completion of the basic course of tactical level L-1A;</p> <p>for military personnel: military service as a private or sergeant (sergeant major);</p> <p style="padding-left: 20px;">for civilians: health condition for military service in the Armed Forces of Ukraine.</p>
Language(s) of instruction	Ukrainian
Duration of the educational programme for the professional education course	Until the update or introduction of a new educational programme.
2 - Aims of the Educational Programme	
Preparation within the tactical level of qualified officers who are competent in organising troops' (forces') food supply, operating and maintaining material service equipment, and capable of performing assigned tasks.	
3 - Characteristics of the educational programme	
Subject area	<p>Field of knowledge: "25 Military Sciences, National Security, State Border Security";</p> <p>Specialty: "254 Troops (Forces) Support"</p> <p>Specialisation: "Material support of troops (forces)".</p>
The main focus of the educational programme of the professional military education course	The aim of the educational programme is to provide professional military education for military service in typical positions as defined by the professional standard of a tactical level officer under Military Occupational Specialty (MOS) 702300.
Features of the programme	The educational programme is developed taking into account the educational programme of the basic course of the tactical level L-1A, approved by the Chief of the General Staff of the Armed Forces of Ukraine on 29.06.2024 № 97672/C, and the actual experience of combat operations gained during the anti-terrorist operation, the operation of the joint forces and the repulsion of the full-scale invasion of Russia into the

	territory of Ukraine.
4 - The employability and further education prospects of graduates	
Employability	The initial positions of junior officers, as specified in the professional standard of a tactical level officer.
Further education	Preparation under the educational programme of the professional military education course "Logistics Forces Tactical Level Command Course L-1C (LS)".
5 - Instruction and Assessment	
Teaching and Learning	The main types of classes used to teach the components of the educational programme: lectures; seminars, group exercises, practical group exercises, tactical (tactical-special, tactical-drill) lessons and exercises, independent work, including at the field training base.
Assessment	Assessment of the learning outcomes of course participants include the full range of control measures provided by the programmes of academic disciplines and is carried out on a 100-point scale, ECTS scale and national scale.
6 - Programme Competences	
Military Special Competencies (MSC)	<p>MSC 1 Ability to organise logistical support for units, including the provision of weapons, military and special equipment, material and technical means, transport and engineering infrastructure works and services.</p> <p>MSC 2 The ability to apply knowledge of the art of war, organisation of support for modern combined arms battle (operations) under various conditions of professional activity</p> <p>MSC 3 Ability to plan, organise and conduct the main types of combat (hostilities), clearly define combat missions for subordinate and attached units (firepower), navigate in difficult combat conditions</p> <p>MSC 4 Ability to keep records, write-offs and reports of material and technical assets of the material support service.</p> <p>MSC 5 Ability to perform the duties of the head of the material support service of a military unit, timely decision-making on the provision of units with material resources of the service, organisation of their storage and movement in stationery and field conditions in peacetime and wartime.</p> <p>MSC 6 Ability to provide the personnel of military unit units with the necessary food, materials and equipment for the timely accomplishment of assigned tasks.</p> <p>MSC 7 Ability to organise work and ensure the correct operation of material support service technical equipment, their maintenance and repair in stationery and field conditions in peacetime and wartime.</p> <p>MSC 8 Ability to perform the duties of a logistics officer (in the logistics services).</p>
7 - Programme learning outcomes	
Military Specialised Training (LOmpt)	<p>LOmpt 1 Determine the technical characteristics and operation procedure of standard weapons and military equipment, the requirements of guidelines for the storage and operation of weapons and military equipment, the rules for the preparation and maintenance of technical documentation of the unit, and to be able to organise unit's logistic support</p> <p>LOmpt 2 To know and understand the general principles of military art, modern armed struggle, general military combat, to be able to effectively command and control a unit in the in primary combat operations at battalion level.</p>

	<p>LOmpt 3 To effectively use combat capabilities, various forms, and methods of tactics of units in the main types of combat (tactical actions).</p> <p>LOmpt 4 To know and understand the procedure for organising the accounting, write-off and reporting of material and technical provision of the material support service.</p> <p>LOmpt 5 To know and understand the procedure for organising the work of the material support service of military units (subunits), interaction between the services of the unit, organisation of material support for personnel in peacetime and in combat conditions, the fundamentals and rules of supply, equipment and property management, the procedures and rules for maintaining records of material support service means, to carry out systematic control of the material support service administrative activities, to organise personal hygiene for personnel in stationary and field conditions, and to organise the provision of living conditions when accommodating personnel.</p> <p>LOmpt6 Understand the procedure for assessing the consumer value of goods, their classification and standardisation, determine the range of goods and their structure, the factors that determine the quality of goods, methods of its control and evaluation, determine storage conditions. To organise the provision of the military unit with technical means of material support service in peacetime and wartime. Receive, store, receive and issue material means of service, organise the fitting of military uniforms, organise the repair of material property in various conditions.</p> <p>LOmpt7 To know and understand the basic provisions for the operation of technical means of material support service during the relevant technological process, transportation, storage in the field and stationary conditions. Organise the provision of technical means of material support service, receive, store, maintain, account for technical means of the service, organise and conduct classes with junior specialists of the material support service.</p> <p>LOmpt 8 To know and understand the procedure for organising the work of logistics officers (by support services), to apply the acquired knowledge in the performance of duties.</p>
8 - Resource support for programme implementation	
Staffing of the programme	<p>Academic and teaching staff involved in the educational programme are full-time employees of the Military Academy, some of whom hold academic degrees, scientific titles, and have a verified level of scientific and professional activity. The development of professional competences is ensured by professionals with practical experience in their field.</p> <p>The practice-oriented nature of the educational programme involves extensive participation of practitioner specialists whose expertise aligns with the programme’s focus, enhancing the synergistic link between theoretical and practical training.</p> <p>The programme director, members of the working group responsible for programme development, as well as the teaching staff delivering the educational programme, meet the requirements established by the Ministry of Defence of Ukraine.</p>
Material and Technical Support	<p>To implement the competences and learning outcomes specified in the educational programme, the material and technical facilities of the Military Academy (Odesa) and the Academy’s Educational Process Support Centre are used. The material and technical provision meets the requirements for delivering educational services and is sufficient to ensure</p>

	<p>the quality of the educational process, including: classrooms; computer labs; specialized laboratories; sports halls and sports grounds; library and reading room; multimedia equipment; offices for academic and teaching staff; barracks; dining facilities; and others, etc.</p>
<p>Information and Educational-Methodological Support</p>	<p>Educational and methodological support is developed in accordance with the current regulatory and legislative documents of the Ministry of Education and Science of Ukraine and orders of the Ministry of Defence of Ukraine, and consists of the following materials</p> <ul style="list-style-type: none"> instructional and methodological materials for practical classes; teaching and methodological materials for all types of classes; methodical instructions for the performance of works (projects); methodological instructions for organising independent work; programmes of all types of practical training; diagnostic tools. <p>The library fund is used in the training, including teaching materials, educational and methodological developments of teaching staff.</p> <p>To implement the programme, the virtual learning environment of the Military Academy (Odesa), author's developments, textbooks and manuals and other teaching and methodological materials are used.</p> <p>The official website of the Academy (http://vaodesa.mil.gov.ua/) contains information on educational, scientific and educational activities, structural units, admission rules, contacts, and users have the opportunity to use all available library resources. The technological and material and technical support of the educational process is available.</p>

2. THE LIST OF COMPONENTS OF THE EDUCATIONAL PROGRAMME OF THE PROFESSIONAL MILITARY EDUCATION COURSE AND THE ALIGNMENT OF PROGRAMME COMPETENCIES AND LEARNING OUTCOMES WITH THE COMPONENTS OF THE EDUCATIONAL PROGRAMME

2.1. The list of components of the educational programme (EP)

Code of ac. disc.	Components of the educational programme (academic disciplines/modules)	Number of credits	Form of final control
MP 01	Combat Employment of Mechanised Units	1,3	Credit
MP 02	Logistics Support of Combat Operations	6,7	Examination
MS 01	Material Support of Military Personnel	3,7	Examination
MS 02	Organisation of Material Support	8,0	Examination
MS 03	Bath and Laundry Services	5,0	Examination
MS 04	Technical Equipment of the Material Support Service	5,3	Credit
Total for the programme of credits		30,0	

2.2 Alignment of Programme Competencies with Components of the Educational Programme

	MP 01	MP 02	MS 01	MS 02	MS 03	MS 04
MSC 1	+	+	+	+		
MSC 2	+	+				
MSC 3	+	+				
MSC 4			+	+		
MSC 5			+	+	+	
MSC 6			+	+	+	
MSC 7			+	+		+
MSC 8		+	+	+		

2.3 Alignment of Learning Outcomes with Components of the Educational Programme

	MP 01	MP 02	MS 01	MS 02	MS 03	MS 04
LOmpt 1	+	+	+	+		
LOmpt 2	+	+				
LOmpt 3	+	+				
LOmpt 4			+	+		
LOmpt 5			+	+	+	
LOmpt 6			+	+	+	
LOmpt 7			+	+		+
LOmpt 8		+	+	+		

3. DISTRIBUTION OF COMPONENTS OF THE EDUCATIONAL PROGRAMME BY COURSES AND SEMESTERS

№	Discipline Code	NAME OF THE ACADEMIC DISCIPLINE	Distributi on by semesters		ECTS Credits	Number Of Hours					Assessment activities	Independent work	Distribution of Classroom Hours by Years of Study and Semesters							
			Exams	Credits		Total Workload	Contact hours						1st Year	2nd Year	3rd Year	4th Year				
							Total	Lectures	Group Work, Seminars	Practical, Laboratory Work										
			Semesters																	
			1	2		3	4	5	6	7			8	9	10	11	12	13	14	15
1	MP 01	Combat Employment of Mechanised Units	-	5	1,3	40	32	2	12	18	8	-					40			
																	Cr			
2	MP 02	Logistics Support of Combat Operations	7	-	6,7	200	188	20	68	100	6	6					60	11 4	20	
																		2	4	
																			E	
3	MS 01	Material Support of Military Personnel	-	4	3,7	110	88	14	22	52	4	18			58	26				
															12	6				
																	Cr			
4	MS 02	Organisation of Material Support	8	-	8,0	240	194	42	54	98	6	40					62	68	42	36
																	19	8	7	6
																				E
5	MS 03	Bath and Laundry Services	8	-	5,3	160	142	18	62	62	6	12					28	32	30	58
																	4	2	2	4
																				E
6	MS 04	Technical Equipment of the Material Support Service	-	6	5,0	150	106	16	20	70	6	38		18	32	20	28	14		
														4	14	8	4	8		
																		Cr		
Total			-	-	30,0	900	750	112	238	400	36	114	-	-	-	-	-	-	-	-
Total number of			-	-	30,0	900	750	112	238	400	36	114	-	-	-	-	-	-	-	-
Number of hours per week			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Number of exams			3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	2
Number of credits			-	2	-	-	-	-	-	-	-	-	-	-	-	-	1	1	2	-

4. PROGRAMMES OF COMPONENTS OF THE EDUCATIONAL PROGRAMME

Programme of the discipline MP 01 "COMBAT EMPLOYMENT OF MECHANISED UNITS"

General Objective of the Educational Programme Component:

to provide the cadet with an understanding of the structure and processes that occur in the system of combat support (actions) of a typical battalion unit; the procedure for organising interaction by type of support and management at the level of battalion headquarters, battalion support unit; laying the foundation for mastering standard operating procedures and basic planning and management apparatus.

Upon completion of the educational programme component, the learner should know:

unit command and control processes (by types, branches of the Armed Forces of Ukraine, other military formations formed in accordance with the laws of Ukraine) during preparation and conduct of combat and in daily activities.

processes of comprehensive support of the unit (by types, branches of the Armed Forces of Ukraine, other military formations formed in accordance with the laws of Ukraine) during combat use and daily activities.

organise battle planning in accordance with NATO standard operating procedures (MDMP);

be able to:

plan, organise and apply combat skills of the unit (by types, branches of the Armed Forces of Ukraine, other military formations formed in accordance with the laws of Ukraine);

manage a support unit in the course of preparation and conduct of combat, day-to-day activities in a support unit (by types, branches of the Armed Forces of Ukraine and other military formations formed in accordance with the laws of Ukraine);

apply knowledge of modern armed struggle and general military combat, martial arts, the basics of the combat system of survival of a warrior in various conditions of professional activity;

read and maintain working maps (diagrams), understand the tasks, assess the situation, make decisions as a staff officer in various types of tactical operations.

Organisational and Methodological Guidelines:

The methodology of teaching the discipline is based on the basic principles of didactics (theory of justification and learning). It provides a scientific and pedagogical description of the forms and methods of teaching, indicates the most appropriate combinations to achieve a certain level of learning, determines the conditions for their most effective use.

To achieve the main learning objective, the programme provides for the following forms of learning:

frontal form of learning, when all students perform the same task at the same time under the supervision of a teacher;

group form of training, when students are combined into groups (sections) depending on the staffing structure of the unit, which work in parallel;

individual form of training, when students complete tasks sequentially, one by one.

In this case, depending on the need to achieve levels of knowledge or skills, the teacher should use the following methods

verbal and visual;
training;
situational and cognitive.

The verbal-visual method, in which the teacher systematically and consistently presents the educational material, shows (demonstrates) the subjects studied to obtain new knowledge and form the appropriate imagination.

The training (reproductive) method is based on performing complex actions in accordance with an algorithm (pre-established procedure) determined by the instructor to develop the necessary skills and ensure the coherence of military organisational structures.

Situational and cognitive - in reviewing and discussing real (probable) actions, learning about the experience of commanding troops (forces) in military conflicts and developing information and analytical skills.

The above methods provide students with knowledge, skills, and abilities, but to develop their creative abilities, the class leader should use problem-based learning methods.

Problem-based teaching is when the class leader poses a problem to the students, solves it himself, but at the same time shows the ways of solving it, reveals the course of his thought. The immediate result of problem-based teaching should be that the student learns the method and logic of solving a particular problem, but not yet the ability to apply it independently. This method teaches students how to search for knowledge and helps them develop creative thinking skills.

The search (heuristic) method serves the purpose of gradually bringing students closer to solving problems on their own by first teaching them how to perform certain elements of the solution. It is used during group exercises when the method of finding the optimal solution is determined by the class leader, but the solution is found by the student.

Problem-based methods provide a deep assimilation of knowledge at the level of its creative application, mastery of creative thinking methods, and practical experience.

Material and Technical Support:

Classes should be held in specialised classrooms, which, depending on the subject matter of the classes, should be equipped with information display devices, maps, diagrams, personal electronic computers at the rate of one workplace for no more than two students. It is mandatory to use technical training aids during the training sessions.

Information and Methodological Support:

1. Combat Regulations of the Mechanised and Tank Troops of the Army of the Armed Forces of Ukraine, Part II (Battalion, Company), approved by the Order of the Army Commander of the Armed Forces of Ukraine No. 564 of 30 December 2016, as amended.
2. ACP 3-102(03).01 Doctrine on the Structures of Command Posts (Control Points) in a Joint Operation. K-2021.
3. Combat Regulations of the Army “Structure and Functioning of Command Posts (Control Points) in Operations.” K-2023.
4. General Military Formations in Battle (according to NATO Standards): Textbook. Kyiv: National Defence University of Ukraine named after Ivan Cherniakhovskyi.
5. Training Set of Military Formations (Units) (NDUU) (2018).
6. Order of the Commander-in-Chief of the Armed Forces of Ukraine No. 140 of 11 September 2020 “On Approval of the Interim Procedure for

Drafting Operational (Combat) Documents.”

7. NATO STANDARD. "APP-6", "NATO JOINT MILITARY SYMBOLOGY".

8. Collection of Tactical Calculations with Examples: Textbook / Collective of Authors. – Kyiv: National Defence University of Ukraine named after Ivan Cherniakhovskyi, 2018. 96 p.

9. TCP 3-(00)152(03).01 Procedure “Work of the Commander and Staff of the Tactical Command Level on Battle (Combat Operations) Planning according to NATO Standard Operating Procedures,” 2021.

10. VP 7(5)-00(11)03.01 Methodological Recommendations on Battle Planning and Organisation according to NATO Standards, 2020.

11. Handbook of the NCCP MCTC “Battle Planning and Organisation according to NATO Standards.” – Kyiv, 2019.

12. Military Manual VP 1.0 “Military Leadership.” – Kyiv: General Staff of the Armed Forces of Ukraine, 2016. – 29 p.

13. United States Army Field Manual. Operations. FM 3-07, 2008.

14. Album of Unit Action Diagrams (Squad, Platoon, Company, Battalion) – Lviv: Hetman Petro Sahaidachnyi National Academy of Land Forces, 2018.

15. BP 3(7)-08(11).01 Combat Regulations of the Army “Air Defence Forces of the Army of the Armed Forces of Ukraine.” Order of the Commander of the Army of the Armed Forces of Ukraine No. 215 of 30 March 2021. Army Command of the Armed Forces of Ukraine, March 2021, 136 p., unclassified.

16. SBP 3-00(08).56(57) Combat Regulations of the Army “Air Defence Forces of the Army of the Armed Forces of Ukraine,” Part II (Division, Battery (Group)). Order of the Commander of the Army of the Armed Forces of Ukraine No. 596 of 27 December 2016. Army Command of the Armed Forces of Ukraine, December 2016, 227 p., unclassified.

17. SBP 3-00(08).58(59) Combat Regulations of the Army “Air Defence Forces of the Army of the Armed Forces of Ukraine,” Part III (Platoon, Squad, Crew). Order of the Commander of the Army of the Armed Forces of Ukraine No. 248 of 26 May 2016. Army Command of the Armed Forces of Ukraine, May 2016, 194 p., unclassified.

18. Foreign Armies Handbook (Training and Combat Composition of the “Yellow”), Textbook, Kyiv: National Defence University of Ukraine, 2020.

19. Album of Diagrams: Employment of Russian Federation Armed Forces Units in Major Types of Combat, Kyiv: National Defence University of Ukraine, 2018.

Auxiliary Information Sources

1. Current Issues in the Training and Employment of the Armed Forces of Ukraine during the Conduct of the Anti-Terrorist Operation in Eastern Ukraine. – Kyiv, 2016, inv. 2537. – 136 p.

2. TCP 7-000 (162) 01.01 “Collection No. 1 of Materials on Studying Combat Experience of the Russian-Ukrainian War of 2022.” – Kyiv: Main Directorate for Training and Personnel, General Staff of the Armed Forces of Ukraine, 2022.

3. TCP 7-000 (162)01.02 “Collection No. 2 of Materials on Studying Combat Experience of the Russian-Ukrainian War of 2022.” – Kyiv: Main Directorate for Training and Personnel, General Staff of the Armed Forces of Ukraine, 2022.

4. TCP 7-000 (162)01.03 “Collection No. 3 of Materials on Studying Combat Experience of the Russian-Ukrainian War of 2022.” – Kyiv: Main Directorate for Training and Personnel, General Staff of the Armed Forces of Ukraine, 2022

5. TCP 7-000 (162)01.04 “Collection No. 4 of Materials on Studying Combat Experience of the Russian-Ukrainian War of 2022.” – Kyiv: Main Directorate for Training and Personnel, General Staff of the Armed Forces of Ukraine, 2022.

6. Collection of Tactical Calculations with Examples: Textbook / Collective of Authors. – Kyiv: National Defence University of Ukraine named after Ivan Cherniakhovskyi, 2018. – 96 p.

7. Order of the Ministry of Defence of Ukraine No. 595 of 5 September 2013 “On Approval of the Regulation on Military Transportation by Rail, Sea, River, and Air Transport.”

8. Summary Materials on the Analysis of Task Execution by Army Units (Subunits) during the ATO. – Centre for Operational Support and Military Planning of the Armed Forces of Ukraine, 2016. – 156 p.

9. Summary Materials on the Analysis of Training and Conduct of Operations (Combat Actions) by the Armed Forces of Ukraine during the ATO. – Zhytomyr, 2015. – 111 p.

10. Employment of Mechanised Units in Performing Special Tasks in Modern Armed Conflicts. – Odesa: “Science and Technology,” 2008. – 98 p.

11. VP 7(3)-00(01).01 Interim Instruction on the Process of Analyzing Conducted Actions and Training Measures. Centre for Operational Standards and Training Methodology of the Armed Forces of Ukraine, Main Directorate for Training of the Armed Forces of Ukraine, 2019. – 40 p.

12. VP 7(3)-(01-05)03.01 Methodological Recommendations “Organisation, Management, and Improvement of the Fire System in Modern Conditions.” Centre for Operational Standards and Training Methodology of the Armed Forces of Ukraine, Main Directorate for Training of the Armed Forces of Ukraine, 2019. – 120 p.

Auxiliary Information Sources

1. Official website of the Ministry of Defence of Ukraine: <http://www.mil.gov.ua/>

2. Scientific-theoretical and scientific-practical journal "Science and Defence" <http://www.nio.mil.gov.ua/>

3. Official website of the Verkhovna Rada of Ukraine: <http://zakon2.rada.gov.ua/laws/a#Find>

4. Official website: www.vaOdesa.org.ua

Titles of Topics and Distribution of Study Time by Types of Academic Activities

No	Types of Academic Activities, Assessment Methods	Total Hours	Among them		Topic Title and Learning Points
			Contact Hours	Independent work	
1	2	3	4	5	6
		6	6		Topic 1: Fundamentals of combat employment of a mechanised battalion (company) in the main types of combat (tactical actions).
1.	Lecture	2	2		Lesson 1: Organisation, armament, military equipment and combat capabilities of a mechanised (infantry, tank) battalion (company). 1. Place and role of discipline in the educational process. 2. Organisation, armament and combat equipment of a mechanised (motorised infantry, tank) battalion (company) on an armoured personnel carrier (APC) or Infantry Fighting Vehicle (IFV). Technical and tactical characteristics of weapons and military equipment. 3. Combat capabilities of a mechanised battalion (company).
2.	Group session	2	2		Lesson 2: Organisation, armament, combat capabilities and basics of combat employment of artillery, anti-tank, grenade launcher and anti-aircraft units of a mechanised battalion. 1. Tasks performed by artillery in various types of combat. Purpose, composition, combat order and combat capabilities of regular and attached artillery units of the battalion. 2. Organisational and staffing structure, weapons and combat capabilities of the battalion's machine gun, anti-tank, grenade launcher and anti-aircraft missile platoons. 3. The use of artillery, machine gun, anti-tank, grenade launcher and anti-aircraft missile units of the battalion in the main types of combat.
3.	Seminar	2	2		Lesson 4. Organisation, weapons, military equipment, combat capabilities of a mechanised (motorised infantry, tank) battalion (company) and its combat units. 1. Organisation, armament and combat equipment of a mechanised (motorised infantry, tank) battalion (company) on an armoured personnel carrier (APC) or Infantry Fighting Vehicle (IFV). Technical and tactical characteristics of weapons and military equipment. 2. Combat capabilities of a mechanised battalion (company). 3. Tasks performed by artillery in various types of combat. Purpose, composition, combat order and combat capabilities of regular and attached artillery units of the battalion. 4. Organisational and staff structure, weapons and combat capabilities of the battalion's machine gun, anti-tank, grenade launcher and anti-aircraft missile platoons. 5. The use of artillery, machine gun, anti-tank, grenade launcher and anti-aircraft missile units of the battalion in the main types of combat.
		2	2		Topic 2. Fundamentals of the use of motorised infantry (tank) brigade (regiment) of the armies of neighbouring states.

No	Types of Academic Activities, Assessment Methods	Total Hours	Among them		Topic Title and Learning Points
			Contact Hours	Independent work	
1	2	3	4	5	6
4.	Lecture	2	2		<p>Lesson 1: Fundamentals of combat employment of a motorised infantry (tank) brigade (regiment) of the armies of neighbouring states.</p> <p>1. Organisational and staffing structure, tactical and technical characteristics of weapons and military equipment of a motorised rifle (tank) brigade (regiment).</p> <p>2. Fundamentals of combat employment of a motorised rifle (tank) brigade (regiment) in offensive combat (purpose, tasks, combat order, tactical standards).</p> <p>3. Fundamentals of combat employment of a motorized rifle (tank) brigade (regiment) in defensive combat (purpose, tasks, combat order, tactical standards).</p>
		12	12		Topic 3: Defensive combat of a mechanised battalion (company).
5.	Lecture	2	2		<p>Lesson 1: Preparation and conduct of defensive combat by a mechanised battalion (company).</p> <p>1. Mechanised battalion (company) in defensive combat.</p> <p>2. Conducting a defensive battle. Features of manoeuvre defence.</p>
6.	Group session	2	2		<p>Lesson 3: Preparing for defensive combat (military decision-making process (MDMP)).</p> <p>1. The work of the battalion commander and staff in organising defensive combat Military decision-making process (MDMP). Stages of planning and their content.</p> <p>2. Responsibilities of officials in the stages of military decision-making (MDMP).</p>
7.	Group session	2	2		<p>Lesson 5. Military decision-making process (MDMP).</p> <p>1. Analysis of the received task.</p> <p>2. Development of options for action.</p> <p>3. Analysis of options for action.</p>
					<p>Tactical task number 1.</p> <p>Transition of the BTG to defence in the absence of a collision with the enemy.</p>
8.	Group exercise	6	6		<p>Lesson 7. Transition of a BTG to defence in the absence of a collision with the enemy.</p> <p>1. Understanding the task, assessing the situation (according to the military decision-making process (MDMP)).</p> <p>2. Development of courses for action (COAs). Analysis and justification (COAs).</p> <p>3. Developing a plan and drawing it on a working map.</p> <p>4. Modular control.</p>
		10	10		Topic 4. Movement of a mechanised battalion (company).
9.	Lecture	2	2		<p>Lesson 1: March of a mechanised battalion (company).</p> <p>1. Mechanised battalion (company) on the march.</p>

No	Types of Academic Activities, Assessment Methods	Total Hours	Among them		Topic Title and Learning Points
			Contact Hours	Independent work	
1	2	3	4	5	6
					2. Methods of calculating the march of a mechanised battalion
10.	Practical session	6	6		Lesson 3. March of a mechanised battalion. 1. Analysis of the received task. 2. Construction of the marching order, distribution of forces and means in the column. 3. Calculation of the march of a mechanised battalion.
11.	Group session	2	2		Lesson 4. Transporting a mechanised battalion by various means of transport. 1. Organise and carry out the transport of a mechanised battalion. 2. Methods of calculating the cost of transporting a battalion by rail.
		10	10		Topic 5. Offensive combat of a mechanised battalion (company).
12.	Lecture	2	2		Lesson 1 Preparation and conduct of an offensive battle by a mechanised battalion (company). 1. Mechanised battalion (company) in offensive combat. Purpose, types and conditions of the offensive. 2. Conducting an offensive battle.
					Tactical task 2. Moving the BTGr to the offensive from a position of direct contact with the enemy with the regrouping of units
13.	Group exercise	8	8		Lesson 3: Decision-making for an offensive battle. 1. Awareness of the task, assessment of the situation (according to the military decision-making process (MDMP)). 2. Development of courses for action (COAs). Analysis and justification (COAs). 3. Developing a plan and drawing it on a working map.
Total for discipline		40	40		

Programme of the discipline

MP 02 "LOGISTICS SUPPORT OF COMBAT OPERATIONS"

General Objective of the Educational Programme Component:

providing knowledge of the processes of managing logistics services and subordinate logistics units; understanding the processes of comprehensive support of units; developing skills in planning logistics support for various types of combat (march) using standard operating procedures; mastering rational methods of officer's work, developing creative thinking to solve complex professional problems; bringing diverse knowledge into a single toolkit for successful task performance.

Upon completion of the educational programme component, the learner should know:

organisational structure and tasks of logistics;
organisation and management of military economy of a military unit;
organisational and staffing structure, tasks and capabilities of logistics support bodies, the basics of their application in various types of tactical actions;

organisation of supply of material resources to the rear;

basics of logistics planning and record keeping using LOGFAS software.

organisation of logistics support for the mobilisation and bringing military units to combat readiness;

organisation of logistics planning in accordance with NATO standard operating procedures (MDMP);

basics and rules of logistics support during preparation and during combat (march);

be able to:

manage the logistics support service (by specialisation) of a military unit and organise its work during preparation and during combat (march);

to make decisions and manage units during combat missions, regarding logistics support;

organise the protection, defence and defence of logistics and logistics support forces;

read tactical symbols used to display the logistical situation;

read and maintain working maps (diagrams), understand tasks, assess the situation, make decisions as a logistics officer in various types of tactical actions;

use the LOGFAS software package to solve logistics reporting tasks.

Organisational and Methodological Guidelines:

The methodology of teaching the discipline is based on the basic principles of didactics (theory of justification and learning). It provides a scientific and pedagogical description of the forms and methods of teaching, indicates the most appropriate combinations to achieve a certain level of learning, determines the conditions for their most effective use.

To achieve the main learning objective, the programme provides for the following forms of learning:

frontal form of learning, when all students perform the same task at the same time under the supervision of a teacher;

group form of training, when students are combined into groups (sections) depending on the staffing structure of the unit, which work in parallel;

individual form of training, when students complete tasks sequentially, one by one.

In this case, depending on the need to achieve levels of knowledge or skills, the teacher should use the following methods

verbal and visual;

training;

situational and cognitive.

The verbal-visual method, in which the teacher systematically and consistently presents the educational material, shows (demonstrates) the subjects studied to obtain new knowledge and form the appropriate imagination.

The training (reproductive) method is based on performing complex actions in accordance with an algorithm (pre-established procedure) determined by the instructor to develop the necessary skills and ensure the coherence of military organisational structures.

Situational and cognitive - in reviewing and discussing real (probable) actions, learning about the experience of commanding troops (forces) in military conflicts and developing information and analytical skills.

The above methods provide students with knowledge, skills, and abilities, but to develop their creative abilities, the class leader should use problem-based learning methods.

Problem-based teaching is when the class leader poses a problem to the students, solves it himself, but at the same time shows the ways of solving it, reveals the course of his thought. The immediate result of problem-based teaching should be that the student learns the method and logic of solving a particular problem, but not yet the ability to apply it independently. This method teaches students how to search for knowledge and helps them develop creative thinking skills.

The search (heuristic) method serves the purpose of gradually bringing students closer to solving problems on their own by first teaching them how to perform certain elements of the solution. It is used during group exercises when the method of finding the optimal solution is determined by the class leader, but the solution is found by the student.

Problem-based methods provide a deep assimilation of knowledge at the level of its creative application, mastery of creative thinking methods, and practical experience.

Material and Technical Support:

Classes should be held in specialised classrooms, which, depending on the subject matter of the classes, should be equipped with information display devices, maps, diagrams, personal electronic computers at the rate of one workplace for no more than two students. It is mandatory to use technical training aids during the training sessions.

Information and methodological support:

1. Instruction on the Organisation of Material Support for Servicemen of the Armed Forces of Ukraine in Peacetime and Special Periods: Order of the Ministry of Defence of Ukraine No. 232 of 29 April 2016.
2. Norms of consumption of fuel, oils, greases and special liquids during the operation, repair and conservation of military equipment and weapons of the Armed Forces of Ukraine, approved by the Order of the Minister of Defence of Ukraine of 06.01.1999 No. 01.
3. Temporary Instruction on Bathing and Laundry Services for Personnel of the Armed Forces of Ukraine in Peacetime and Special Periods, approved

- by the Commander of Military Unit A2516, No. 312 of 28 December 2017.
4. Standards for Accumulation, Storage, and Echeloning of Non-Depletable Stocks of Missiles and Ammunition in the Armed Forces of Ukraine in Peacetime, approved by the Order of the Chief of the General Staff of the Armed Forces of Ukraine No. 4 of 15 July 2008 (as amended by the Order of the General Staff of the Armed Forces of Ukraine of 20 July 2016).
 5. Standards for Irrecoverable Losses, Equipment Repair Turnover, and Consumption of Other Material Resources in Operations of the Armed Forces of Ukraine, enacted by the Order of the Chief of the General Staff of the Armed Forces of Ukraine No. 2 of 26 January 2016.
 6. Collection of Combat Sets and Standards of Military Stocks of Missiles and Ammunition in the Armed Forces of Ukraine, approved by the Order of the Commander of the Armed Forces of Ukraine No. 3 of 27 May 2003.
 7. Instruction on Preparation and Conduct of Mobilisation Deployment of the Armed Forces of Ukraine, approved by the Order of the Ministry of Defence of Ukraine and the General Staff of the Armed Forces of Ukraine of 15.12.2017 No. 19.
 8. On the introduction of samples and forms of documents on the preparation and conduct of mobilisation deployment of the Armed Forces of Ukraine into official activities, approved by the mobilisation directive of the General Staff of the Armed Forces of Ukraine of 03.07.2018 No. 321/1260, RESTRICTED.
 9. Regulation on the Procedure for the Creation, Storage, Renewal (Replacement), and Use of Fixed Stocks of Logistics Equipment and Other Logistics Material Resources in the Armed Forces of Ukraine, approved by Order of the Ministry of Defence of Ukraine of 13.05.2016 No. 6t.
 10. On Approval of the Procedure for Determining the Objectively Necessary Amount of Fuel for Household Needs in the Armed Forces of Ukraine: Order of the Ministry of Defence of Ukraine of 19.10.2018 No. 524.
 11. On Approval of the Procedure for the Use of Apartment Property in the Ministry of Defence of Ukraine and the Armed Forces of Ukraine: Order of the Ministry of Defence of Ukraine of 30.01.2019 No. 34.
 12. Methodological recommendations on the organisation of logistics support in the base camps of brigades (battalions), company (platoon) strongholds and combat positions. - Kyiv: Logistics of the Armed Forces of Ukraine, 2016. - 19 p.
 13. Methodological recommendations on the organisation and escort of columns. - Kyiv: Logistics of the Armed Forces of Ukraine, 2016. - 9 p.
 14. Combat Regulations of the Mechanised and Armoured Forces of the Land Forces of the Armed Forces of Ukraine. Part I. Brigade. – Kyiv: Land Forces Command of the Armed Forces of Ukraine, 2016.
 15. Combat Regulations of the Mechanised and Armoured Forces of the Land Forces of the Armed Forces of Ukraine. Part II. Battalion, Company. – Kyiv: Land Forces Command of the Armed Forces of Ukraine, 2016.
 16. Doctrine “Joint Logistics,” SP 4-00(30)03.01.
 17. Doctrine "Application of Logistics Forces", VCP 4-32(03).01.
 18. Doctrine "Logistics Forces", VKP 4-32(41).01.
 19. Doctrine of Logistic Support of the Land Forces of the Armed Forces of Ukraine, VKP 4-00(11).01.
 20. Doctrine "On the organisation of movements and transportations in the Armed Forces of Ukraine", VKP 4-00(03).01.
 21. Doctrine "Provision of material and technical means, works and services", VKP 4-179(03).01.
 22. Combat Statute "Logistics of the Land Forces of the Armed Forces of Ukraine (tactical level)", VP 4-32(11).01.
 23. Combat Statute "Logistics Operations of the Armed Forces of Ukraine (tactical level)", BP 4-146(11).01.

24. Combat Statute "Troop Deployment Operations (Tactical Level)", VP 4-147(11).01.
25. Doctrine "Infrastructural Support of the State Defence Forces", VKP 4-144(03).01.
26. Procedure "Work of the Commander and Staff of a Tactical Command Level in Planning Combat (Operations) according to NATO Standard Operating Procedures" (Brigade (Regiment), Battalion Headquarters and Equivalent), TKP 3-(00)152(03).01.
27. Methodological Recommendations on Planning and Organising Combat According to NATO Standards (Brigade (Battalion) Headquarters and Equivalent), VP 7(5)-00(11)03.01.
28. On Approval of the Temporary Procedure for Preparing Operational (Combat) Documents, approved by the Order of the Commander-in-Chief of the Armed Forces of Ukraine No. 140 of 11 September 2020.
29. On Approval of the Regulation on Military Transport by Rail, Sea, River and Air: Order of the Ministry of Defence of Ukraine of 05.09.2013 No. 595.
30. Bulgakov R.V.. Specialised software LOGFAS. Part I. Logistics reporting: a textbook - Odesa: Military Academy (Odesa), 2023. 80 p.

Auxiliary

31. Logistics support of a mechanised (tank) battalion in combat and other operations. Part I. Logistics support: a textbook / E.A. Ivanchenko et al: Military Academy, 2018. 316 p.
32. Registration and maintenance of combat documents of logistics support (by logistics services) of a military unit (subdivision): a textbook / O.M. Maslii et al: Military Academy, 2020. 190 p.
33. Military rear. Basics of logistics support of military units (subunits), tactical groups: K.: Rear of the Armed Forces of Ukraine, 2015. 270 p.

Titles of Topics and Distribution of Study Time by Types of Academic Activities

No	Types of Academic Activities, Assessment Methods	Total Hours	Among them		Topic Title and Learning Points
			Contact Hours	Independent work	
1	2	3	4	5	6
		120	120		SECTION 1. Fundamentals of logistics support of troops (forces).
		16	16		Topic 1: General provisions of the organisation of logistics support.
1.	Lecture	2	2		Lesson 1: Comprehensive support of combat and daily activities of military units. 1. Comprehensive support of combat and daily activities of military units. 2. The system of logistics support of the Armed Forces of Ukraine.
2.	Lecture	2	2		Lesson 2. Logistics. Basic concepts. 1. The concept of logistics. 2. Functional areas of logistics. 3. Object, subject, basic concepts and tasks of logistics.
3.	Group session	2	2		Lesson 3: The system of logistics support for troops. 1. Tasks, types, objects of the system of logistics support of troops. 2. Measures of logistics support of a military unit.
4.	Group session	2	2		Lesson 4. Forces and means of logistics support. 1. Forces and means of logistics at the military level. 2. Forces and means of logistics support of the operational level. 3. Forces and means of logistics support of the strategic level.
5.	Group session	2	2		Lesson 5. The system of technical support of troops' actions. 1. The concept of the system of technical support of troops. 2. Measures of technical support of a military unit.
6.	Group session	2	2		Lesson 6. Forces and means of technical support. 1. Forces and means of technical support of the military level. 2. Forces and means of technical support of the operational level. 3. Forces and means of technical support of the strategic level.
7.	Group session	2	2		Lesson 7. Symbols used in logistics documents. 1. General requirements for the application of symbols. Amplifiers. 2. Symbols used in logistics support documents.
8.	Seminar	2	2		Lesson 8. Organisation of logistics support for troops (forces).

No	Types of Academic Activities, Assessment Methods	Total Hours	Among them		Topic Title and Learning Points
			Contact Hours	Independent work	
1	2	3	4	5	6
					1. Comprehensive support of combat and daily activities of military units 2. The system of logistics support of troops. 3. The system of technical support of troops' actions.
		10	10		Topic 2. Organisation and maintenance of military economy.
9.	Group session	2	2		Lesson 1: Fundamentals of organising and maintaining military economy in a military unit. 1. Tasks, structure, trends in the development of military economy. 2. Fundamentals of organisation and management of military economy in a military unit. 3. Organisation and management of company economy.
10.	Practical session	4	4		Lesson 2: Company premises and their maintenance 1. Maintenance of sleeping quarters for personnel. 2. Maintenance of the welfare room 3. Maintenance of a room for storing company property and personal belongings 4. Maintenance of a washing room, toilet, shower room and drying room for drying uniforms and shoes.
11.	Group session	2	2		Lesson 3: Fundamentals of organising and maintaining the military economy of military units during their stay in training centres, camps and exercises. 1. Organisation of the work of the military unit's services for the preparation, maintenance of training centres (camps) and provision of troops during their stay in them. 2. Providing military units with material and technical means and services of logistics services during their stay in training centres and camps. 3. Support of exercises. The role of logistics services in exercises.
12.	Seminar	2	2		Lesson 4. Organisation and management of military economy. 1. Basics of organising and maintaining military economy in a military unit. 2. Organisation and management of company economy. 3. Fundamentals of organising and maintaining the military economy of military units during their stay in training centres, camps and exercises.
		20	20		Topic 3: Organisation of provision of material and technical means, works and services.
13.	Group session	2	2		Lesson 1: General provisions for the provision of material and technical means, works and services. 1. Purpose, principles and functions of providing troops with material and technical means, works and services. 2. Classes of material and technical means.

No	Types of Academic Activities, Assessment Methods	Total Hours	Among them		Topic Title and Learning Points
			Contact Hours	Independent work	
1	2	3	4	5	6
14.	Group session	2	2		Lesson 2. Material resources and their stocks. 1. Stocks of material resources. 2. Settlement and delivery units. 3. Norms of accumulation, maintenance and echeloning of inventories.
15.	Group session	2	2		Lesson 3. Material support of troops. 1. Planning of troop supply. Initial data for planning. 2. The procedure for manning troops with material resources.
16.	Group session	2	2		Lesson 4. Technical resources of support services. 1. Technical means of the rear by type of support. 2. The procedure for manning troops with technical means.
17.	Practical session	4	4		Lesson 5. Preparation of the calculation of material and technical resources (by specialisation). 1. Methodology for calculating the provision of material and technical resources. 2. Calculation of the provision of material and technical resources.
18.	Group session	4	4		Lesson 6. Units of material support of a military unit. 1. Purpose, tasks, capabilities and organisational structure of the logistics platoon. 2. Purpose, tasks, capabilities and organisational structure of a logistics battalion.
19.	Group session	2	2		Lesson 7. Technical support units of a military unit. 1. Purpose, tasks, capabilities and organisational structure of the technical support platoon. 2. Purpose, tasks, capabilities and organisational structure of a repair and restoration battalion.
20.	Seminar	2	2		Lesson 8. Provision of material and technical means, works and services. 1. Material resources and their stocks. 2. Material support of troops. 3. Logistics units of a military unit.
		14	14		Topic 4. Organisation of transport support of troops.
21.	Lecture	2	2		Lesson 1: The system of organisation of movements and transportations. 1. Fundamentals of the organisation of military transport. Types of transport. 2. Structure of transport support bodies.
22.	Group session	2	2		Lesson 2: Organisation of military road transport (MRT). 1. Basic provisions for the organisation of military road transport.

No	Types of Academic Activities, Assessment Methods	Total Hours	Among them		Topic Title and Learning Points
			Contact Hours	Independent work	
1	2	3	4	5	6
					2. Organisation of loading and unloading operations. 3. Principles of organisation of supply and evacuation of material resources.
23.	Group session	2	2		Lesson 3: Forces and means of transport support. 1. Purpose, tasks, capabilities and organisational structure of a separate automobile battalion. 2. Purpose, tasks, capabilities and organisational structure of a separate automobile brigade.
24.	Group session	2	2		Lesson 4. Rules for the carriage of dangerous goods. 1. Guidance documents on the transport of dangerous goods. 2. Basic provisions for the organisation of dangerous goods transport.
25.	Group session	2	2		Lesson 5. Organisation of military transport by rail, water and air. 1. Basic requirements for the transport of troops. 2. Calculations of transportation and loading of troops. Logistics support.
26.	Consultation	2	2		Class 6. Consultation.
27.	Seminar	2	2		Lesson 7. Organisation of transport support for troops. 1. The system of organising movements and transportations (transportation). 2. Organisation of military road transport. 3. Organisation of military transport by rail, water and air.
		30	30		Topic 5. Fundamentals of the use of forces and means of material support.
28.	Lecture	2	2		Lesson 1: General provisions on the work of logistics services in preparation for and during combat operations. 1. Responsibilities of military unit officials in organising logistics support. 2. Combat and planning documents on logistics support.
29.	Group session	2	2		Lesson 2: Fundamentals of logistics support of military units in combat and other operations. 1. Preparation, deployment and movement of the rear. Ways of supply and evacuation. 2. Organisation of rear reconnaissance and logistics interaction. 3. Use of the local industrial base for troop supply and other tasks.
30.	Group session	2	2		Lesson 3: Organisation of logistics support for a military unit in preparation for and during combat. 1. Content of logistics support measures in preparation for combat. 2. Actions of forces and means of logistics support during the battle. 3. Temporary logistics support bodies.
31.	Group	2	2		Lesson 4. Organisation of the supply of material resources.

No	Types of Academic Activities, Assessment Methods	Total Hours	Among them		Topic Title and Learning Points
			Contact Hours	Independent work	
1	2	3	4	5	6
	session				<ol style="list-style-type: none"> 1. Principles and conditions for the organisation of the supply of material resources. 2. Forces and means of transportation, the basics of their use in combat. 3. The work of military unit officials in planning and organising supply and evacuation.
32.	Group session	4	4		<p>Lesson 5. Maintaining a working map by the head of the logistics service.</p> <ol style="list-style-type: none"> 1. The procedure for drawing up and maintaining a work card. 2. Preparation of a working map in preparation for a battle (march).
33.	Group session	4	4		<p>Lesson 6. Organisation of protection, security and defence of logistics units.</p> <ol style="list-style-type: none"> 1. Organisation of protection and camouflage of logistics units. 2. Organisation of protection and defence of the area of deployment of logistics units. 3. Plan for the protection, security and defence of the logistics unit.
34.	Practical session	6	6		<p>Lesson 7. Organisation of protection, security and defence of a logistics platoon.</p> <ol style="list-style-type: none"> 1. Selection and justification of the location of the unit. 2. Drawing up a plan for the protection and defence of the area where the logistics unit is located.
35.	Seminar	2	2		<p>Lesson 8. Organisation of logistics support for a military unit in preparation for and during combat.</p> <ol style="list-style-type: none"> 1. Actions of forces and means of logistics support during the battle. 2. Organisation of supply of material resources. 3. Organisation of protection, security and defence of logistics units.
36.	Group session	2	2		<p>Lesson 9. Peculiarities of logistics support of troops in different conditions.</p> <ol style="list-style-type: none"> 1. Features of logistics support of troops at night. 2. Features of logistics support of troops in winter. 3. Features of logistics support of troops in forest and mountainous areas.
37.	Group session	2	2		<p>Lesson 10. Peculiarities of logistical support of troops in the course of repulsion of open aggression of the russian federation by Ukraine.</p> <ol style="list-style-type: none"> 1. Features of preparation, deployment and movement of logistics units. 2. Peculiarities of providing troops with material and technical means and services. 3. Features of logistics management (by logistics services) of a mechanised brigade.
38.	Seminar	2	2		<p>Lesson 11: Peculiarities of logistics support of military formations in peacekeeping operations and armed conflicts.</p> <ol style="list-style-type: none"> 1. Peculiarities of logistics support of NATO military formations in peacekeeping operations. 2. Features of logistics support of the contingents of the Armed Forces of Ukraine in peacekeeping operations.

No	Types of Academic Activities, Assessment Methods	Total Hours	Among them		Topic Title and Learning Points
			Contact Hours	Independent work	
1	2	3	4	5	6
					3. Features of logistics support of troops during the Armenian-Azerbaijani conflict.
		34	30	4	Topic 6. Certificate course on the use of NATO's specialised software LOGFAS.
39.	Group session	2	2		Lesson 1: Introduction to the LOGFAS course. 1. Familiarisation with the course structure. 2. INITIAL ASSESSMENT.
40.	Group session	5	4		Lesson 2: Overview of the specialised software LOGFAS. 1. Purpose, tasks to be solved, set of tools. 2. Demonstration of the capabilities of LOGFAS software. 3. The structure of logistical support accounting in the Armed Forces of Ukraine. 4. Installation of LOGFAS v.7.2.0.
				1	Terminology of the LOGFAS software. 1. Dictionary of basic terms.
41.	Group session	2	2		Lesson 3. LOGFAS Connection Manager (LCM) module. 1. Create, edit and delete databases. 2. Export and import of databases. 3. Updating databases. The concept of networking.
42.	Group session	5	4		Lesson 4. Geographical Data Management Module (GEOMAN). 1. Setting up the GEOMAN module. 2. Create, edit and delete data on logistics infrastructure objects. 3. Export and import geographic data.
				1	Terminology of the LOGFAS software. 1. Glossary of basic terms.
43.	Group session	7	6		Lesson 5. LOGFAS Data Management Module (LDM). 1. Setting up the LDM module. 2. Creating, editing and deleting capabilities. 3. Manage data slices (profiles of the state of force availability). 4. Export and import of data on forces and means. 5. Exchange of data slices (reports).
				1	The concept of Reportable Item Code (RIC).

No	Types of Academic Activities, Assessment Methods	Total Hours	Among them		Topic Title and Learning Points
			Contact Hours	Independent work	
1	2	3	4	5	6
					1. Working with RIC databases. Units of measurement.
44.	Practical session	7	6		Lesson 6. Workshop on the use of LOGFAS tools. 1. Complex task (Mission #1). 2. Typical mistakes of operators when working with LOGFAS, system failures and ways to eliminate them.
				1	Accounting of International Technical Assistance (ITA). 1. Repetition of the material. Preparation for the output control.
45.	Practical session	2	2		Lesson 9. Algorithm of the LOGFAS Software operator. 1. Algorithm of actions in the LCM module. 2. Algorithm of actions in the GEOMAN module. 3. Algorithm of actions in the LDM module.
46.	Practical session	4	4		Lesson 11: FINAL ASSESSMENT. 1. Complex task (Mission #2). 2. Certification of course participants.
		80	74	6	SECTION 2. Logistical support of combat operations.
		16	16		Topic 7. Organisation of logistics support for mobilisation and bringing a military unit to combat readiness.
47.	Lecture	2	2		Lesson 1: Mobilisation and bringing a military unit to combat readiness. 1. General provisions of mobilisation deployment of troops. 2. Organisation of logistical support for mobilisation and bringing a military unit to combat readiness.
48.	Group session	2	2		Lesson 2: Organisation of material support for the mobilisation and bringing a military unit to combat readiness. 1. Material and technical support for the mobilisation and bringing a military unit to combat readiness. 2. Procedure for the creation, storage, renewal (replacement) and use of fixed stocks of material and technical means. 3. Standards for the maintenance of fixed stocks of material and technical resources for the mobilisation and bringing a military unit into combat readiness.
49.	Group session	2	2		Lesson 3: Documents on logistical support for the mobilisation and bringing a military unit to combat readiness. 1. Personal documents of the chief of the logistics service on mobilisation and bringing the military unit into combat readiness. 2. Methods of calculations. 3. Logistical support for combat cohesion of a military unit.
50.	Practical session	2	2		Lesson 4. Development of planning documents for logistical support of mobilisation and bringing a military unit into combat readiness (by specialisation)

No	Types of Academic Activities, Assessment Methods	Total Hours	Among them		Topic Title and Learning Points
			Contact Hours	Independent work	
1	2	3	4	5	6
					1. Development of a calendar plan for the main events of the service chief.
51.	Practical session	6	6		Lesson 5. Development of calculation and reference documents for logistical support of mobilisation and bringing a military unit into combat readiness (by specialisation) 1. Drawing up a schedule for the removal of stocks of material resources (...) to the area of concentration. 2. Drawing up a calculation of the lifting of stocks of material resources of a military unit. 3. Drawing up a calculation of the provision of material and technical means of the service. 4. Making other calculations: Calculation for the issuance of technical means of service to units. Calculation of the schedule of decommissioning and bringing technical means of the service into readiness for use. Calculation of surplus service equipment delivery. Calculation of catering, provision of bread and water for personnel.
52.	Seminar	2	2		Lesson 6. Organisation of logistical support for mobilisation and bringing a military unit to combat readiness. 1. General provisions of mobilisation deployment of troops. 2. Organisation of logistics support for mobilisation and bringing a military unit into combat readiness.
		16	14	2	Topic 8: NATO Standard Operating Procedures.
53.	Group session	2	2		Lesson 1: Methods and content of work of logistics management bodies of military units. 1. Methods of work of logistics management bodies. 2. Sequence and content of work of logistics management bodies.
54.	Group session	2	2		Lesson 2. General principles of the military decision-making process (MDMP). 1. History of the development of operations planning (warfare) of NATO member states. 2. Combat documents.
55.	Group session	2	2		Lesson 3. STAGE 1: Receipt of mission. 1. Preparation (collection) of initial data, determination of priority measures to prepare logistics units for combat (march). 2. Calculation of time. Orientation of subordinates in preparation for combat (march). 3. Drawing the initial tactical and logistical situation on the working map of the chief of logistics. 4. Development of proposals for logistical support to the preliminary order of WARNO#1.
56.	Group session	2	2		Lesson 4. STAGE 2: Mission analysis. Part 1. 1. Understanding the task set by the higher command authority and the commander. 2. Tasks and procedure for conducting logistics reconnaissance (reconnaissance).

No	Types of Academic Activities, Assessment Methods	Total Hours	Among them		Topic Title and Learning Points
			Contact Hours	Independent work	
1	2	3	4	5	6
57.	Group session	4	2		Lesson 5. STAGE 2: Mission analysis. Part 2. 1. Assessment of the situation and conclusions from it. 2. Calculations of the need and provision of the military unit with material resources. 3. Development of proposals for logistical support to the prior order of WARNO#2.
				2	Preparation of the logistics management center (LMC) to develop a variant of the logistics plan. 1. Content of the plan for the use of logistics units. 2. Formalised document of the plan for the use of logistics units.
58.	Group session	2	2		Lesson 6. STAGES 3-6. 1. Course of action (SOA) development. 2. Analysing options for action (war game / modelling). COA Analysis (War Game). 3. Comparison of courses for action. COA Comparison. 4. Approval of the course of action. COA Approval.
59.	Group session	2	2		Lesson 7. STAGE 7. Development of a logistics plan. Production, Dissemination and Transition orders. 1. Development, coordination and approval of the logistics plan. 2. Clarification, amendment of OPLAN/OPORD.
		24	24		Topic 9: Organisation of logistics support of a military unit on the march.
60.	Group session	2	2		Lesson 1: Measures of logistical support of military units in combat and other operations. 1. Preparation, deployment and movement of the rear. Ways of supply and evacuation. 2. Organisation of logistics (rear) intelligence and logistics interaction (by rear services). 3. Use of the local industrial and economic base to supply troops and solve other problems.
61.	Group session	2	2		Lesson 2: Logistics support of a mechanised brigade on the march. 1. Preparation and marching order of the rear on the march. Defence, protection and defence of the rear. 2. Material support of the brigade during preparation and during the march. 3. Management of the rear.
		20	20		Complex tactical task No. 1 "Logistics support of a military unit on the march".
62.	Group exercise	4	4		Lesson 3. STAGE 1: Receiving the task. Receipt of mission. 1. Preparation (collection) of initial data, determination of priority measures to prepare logistics units for the march. 2. Calculation of time. Orientation of subordinates in preparation for the march.

No	Types of Academic Activities, Assessment Methods	Total Hours	Among them		Topic Title and Learning Points
			Contact Hours	Independent work	
1	2	3	4	5	6
					3. Drawing the initial tactical and logistical situation on the working map of the chief of logistics. 4. Development of proposals for logistical support to the preliminary order of WARNO#1.
63.	Group exercise	4	4		Lesson 4. STAGE 2: Mission analysis. Part 1. 1. Awareness of the task set by the higher command authority and the commander. 2. Tasks and procedure for conducting logistics reconnaissance (reconnaissance).
64.	Group exercise	4	4		Lesson 5. Stage 2: Mission analysis. Part 2. 1. Assessment of the situation and conclusions from it. 2. Calculations of the need and provision of the military unit with material resources. 3. Development of proposals for logistical support to the prior order of WARNO#2.
65.	Group exercise	2	2		Lesson 6. STAGES 3-6. 1. Course of action (COA) development. 2. Analysing options for action (war game / modelling). COA Analysis (War Game). 3. Comparison of courses for action. COA Comparison. 4. Approval of the course of action. COA Approval.
66.	Group exercise	4	4		Lesson 7. STAGE 7. Developing a logistics plan. Orders Production, Dissemination and Transition. 1. Development, coordination and approval of the logistics plan. 2. Clarification, amendment of OPLAN/OPORD.
67.	Group exercise	2	2		Lesson 8. Management of logistics units of a military unit during the march. 1. Management of logistics units during the march. 2. Situational tasks (actions for introductory ones).
		24	20	4	Topic 10. Organisation of logistics support of a military unit in defence.
		24	20	4	Complex tactical task №2 "Logistics support of a military unit in defence".
68.	Group exercise	4	4		Lesson 1. STAGE 1: Receiving the mission. Receiving the mission. 1. Preparation (collection) of initial data, identification of priority measures to prepare logistics units for defence. 2. Calculation of time. Orientation of subordinates to prepare for defence. 3. Drawing the initial tactical and logistical situation on the working map of the chief of logistics. 4. Development of proposals for logistical support to the preliminary order of WARNO#1.
69.	Group	2	2		Lesson 2. STAGE 2: Mission analysis. Part 1.

No	Types of Academic Activities, Assessment Methods	Total Hours	Among them		Topic Title and Learning Points
			Contact Hours	Independent work	
1	2	3	4	5	6
	exercise				1. Awareness of the task set by the higher command authority and the commander. 2. Tasks and procedure for conducting logistics reconnaissance.
70.	Group exercise	2	2		Lesson 3. Stage 2: Mission analysis. Part 2. 1. Assessment of the situation and conclusions from it. 2. Calculations of the need and provision of the military unit with material resources. 3. Development of proposals for logistical support to the prior order of WARNO#2.
71.	Group exercise	4	2		Lesson 4. STAGES 3-6. 1. Developing options for action. Course of action (COA) development. 2. Analysing options for action (war game / modelling). COA Analysis (War Game). 3. Comparison of options for action. COA Comparison. 4. Approval of the course of action. COA Approval.
				2	Selecting a method of action options and conducting a briefing. 1. Selecting a method for drawing options.
72.	Group exercise	6	4		Lesson 5. STAGE 7. Development of a logistics plan. Orders Production, Dissemination and Transition. 1. Development, coordination and approval of the logistics plan. 2. Clarification, amendment of OPLAN/OPORD.
				2	Preparation of the logistics operational centre (LOC) for the management of logistics units in the course of defence. 1. Scheme of communication, control and interaction signals.
73.	Group exercise	2	2		Lesson 6. Management of logistics units of a military unit in the course of defence. 1. Management of logistics units in the course of defence. 2. Situational tasks (actions in response to operational inputs).
Total for the discipline		200	194	6	

Programme of the discipline
MS 01 "MATERIAL SUPPORT OF MILITARY PERSONNEL"

General Objective of the Educational Programme Component:

to provide knowledge on the organisation of military unit logistics, documentation of property and technical means of the logistics service; mastering rational methods of officer's work, development of creative thinking to solve complex professional problems; consolidation of diverse knowledge into a single toolkit for the successful performance of tasks of a tactical level logistics officer.

Upon completion of the educational programme component, the learner should know:

the organisation of the work of the military unit's (subdivision's) material support service;
organisation of material support for personnel in peacetime;
the procedure and rules for keeping records of material resources of the material support service;
the procedure for controlling the economic activity of the material support service;
the procedure for washing personnel in stationery and field conditions;
the duties of the chief of the military unit's material service in full.

be able to:

organise and carry out measures to keep records of material and technical means of the military unit's material support service;
maintain accounting and reporting documentation;
conduct classes with personnel on material responsibility in the context of preventing corruption;
to control the state of accounting and storage of material and technical means of the material support service;
organise the provision of military unit units with material property according to staffing levels, time sheets and established peacetime (wartime) standards.

Organisational and Methodological Guidelines:

The methodology of teaching the discipline is based on the basic principles of didactics (theory of justification and learning). It provides a scientific and pedagogical description of the forms and methods of teaching, indicates the most appropriate combinations to achieve a certain level of learning, determines the conditions for their most effective use.

To achieve the main learning objective, the programme provides for the following forms of learning:

frontal form of learning, when all students perform the same task at the same time under the supervision of a teacher;
group form of training, when students are combined into groups (sections) depending on the staffing structure of the unit, which work in parallel;
individual form of training, when students complete tasks sequentially, one by one.

In this case, depending on the need to achieve levels of knowledge or skills, the teacher should use the following methods
verbal and visual;
training;

situational and cognitive.

The verbal-visual method, in which the teacher systematically and consistently presents the educational material, shows (demonstrates) the subjects studied to obtain new knowledge and form the appropriate imagination.

The training (reproductive) method is based on performing complex actions in accordance with an algorithm (pre-established procedure) determined by the instructor to develop the necessary skills and ensure the coherence of military organisational structures.

Situational and cognitive - in reviewing and discussing real (probable) actions, learning about the experience of commanding troops (forces) in military conflicts and developing information and analytical skills.

The above methods provide students with knowledge, skills, and abilities, but to develop their creative abilities, the class leader should use problem-based learning methods.

Problem-based teaching is when the class leader poses a problem to the students, solves it himself, but at the same time shows the ways of solving it, reveals the course of his thought. The immediate result of problem-based teaching should be that the student learns the method and logic of solving a particular problem, but not yet the ability to apply it independently. This method teaches students how to search for knowledge and helps them develop creative thinking skills.

The search (heuristic) method serves the purpose of gradually bringing students closer to solving problems on their own by first teaching them how to perform certain elements of the solution. It is used during group exercises when the method of finding the optimal solution is determined by the class leader, but the solution is found by the student.

Problem-based methods provide a deep assimilation of knowledge at the level of its creative application, mastery of creative thinking methods, and practical experience.

Material and Technical Support:

Classes should be held in specialised classrooms, which, depending on the subject matter of the classes, should be equipped with information display devices, maps, diagrams, personal electronic computers at the rate of one workplace for no more than two students. It is mandatory to use technical training aids during the training sessions.

Information and Methodological Support:

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Law of Ukraine of 24.03.1999 No. 548-XIV "On the Statute of the Internal Service of the Armed Forces of Ukraine".

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Law of Ukraine of 21.09.1999 No. 1075-XIV "On Legal Regime of Property in the Armed Forces of Ukraine".

Law of Ukraine dated 21.09.1999 No. 1076-XIV "On Economic Activity in the Armed Forces of Ukraine".

Law of Ukraine No. 160-IX of 03.10.2019 "On Liability of Servicemen and Persons Equated to Them for Damage Caused to the State".

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Material Support of the Troops (Forces) of the Armed Forces of Ukraine: a textbook - K.: Ivan Cherniakhovskyi National Defence University of Ukraine, 2018. 192 p.

Order of the General Staff of the Armed Forces of Ukraine of 2016 No. 340 "On Approval of the Instruction on the Organisation of Internal Control in the Armed Forces of Ukraine".

Titles of Topics and Distribution of Study Time by Types of Academic Activities

No	Types of Academic Activities, Assessment Methods	Total Hours	Among them		Topic Title and Learning Points
			Contact Hours	Independent work	
1	2	3	4	5	6
		16	10	6	Topic 1: Organisation of material support for the military personnel of the Armed Forces of Ukraine.
1	Lecture	4	2		Lesson 1: Organisation of material support for the military personnel of the Armed Forces of Ukraine in peacetime and special period. 1. The essence, purpose and tasks of material support. 2. The procedure for providing material property in the Armed Forces of Ukraine.
				2	Provision of military units of the Armed Forces of Ukraine with material property in peacetime.
2	Seminar	2	2		Lesson 2: The procedure for reclaiming material property. 1. Procedure for reclaiming tangible property.
3	Lecture	4	2		Duties of officials of the property service.
				2	Lesson 4. Organisation and tasks of the military unit's material support service. 1. Organisational structure of the military unit's material support service. 2. Classification of material property.
4	Seminar	4	2		Duties of the chief of the military unit's property service.
				2	Lesson 5. Duties of the military unit's material support service officials. 1. Duties of the chief of the military unit's material support service. 2. Duties of other officials of the military unit's material support service.
		36	30	6	Topic 2: Organisation of accounting of material property in a military unit.
6	Lecture	2	2		Lesson 1: Accounting of material property in a military unit. 1: The importance, tasks and requirements for accounting.
7	Seminar	2	2		Lesson 2: Accounting for material property in a military unit. 1. The procedure for keeping records of material property in the material service of a military unit.
8	Lecture	4	2		Lesson 3: Accounting for material property in a military unit. 1. The procedure for drawing up, processing and maintaining records of material support service.

				2	Organisation and procedure for keeping records of material property in units of a military unit and at facilities of the material service.
9	Seminar	2	2		Lesson 4. Accounting of material property in the material service and units of a military unit. 1. Accounting of material property in the material service and units of a military unit.
10	Practical session	6	6		Lesson 5. Procedure for keeping records of material property in the office of the military unit's material service. 1. Keeping records of material property in the records of the material service.
11	Practical session	6	6		Lesson 6. Procedure for keeping records of material property at the military unit's material depot. 1. Keeping records of material property in a material warehouse.
12	Practical session	6	4		Lesson 7. Procedure for keeping records of physical property in a unit. 1. Accounting for real property in the unit. 2. Keeping accounting books in the unit.
				2	Accounting for physical property in the unit.
13	Seminar	4	2		Lesson 8. Accounting of material property in the material repair shop of a military unit. 1. Accounting of material property in the material repair shop of a military unit. 2. Accounting in the laundry and bathhouse of a military unit.
				2	Organisation of material provision for servicemen of the Armed Forces of Ukraine and accounting of military property in the Armed Forces of Ukraine.
14	Group session	4	4		Lesson 9. Organisation of material provision for servicemen of the Armed Forces of Ukraine and accounting of military property in the Armed Forces of Ukraine. 1. Organisation of material provision of the Armed Forces of Ukraine and accounting of military property in the Armed Forces of Ukraine. 2. Modular control.
		58	52	6	Topic 3: Organisation of receipt and transfer of tangible property.
15	Lecture	2	2		Lesson 1: Organisation and procedure for receiving material property by a military unit. 1. Organisation and procedure for obtaining material property from the centralised storage facility.
16	Seminar	2	2		Lesson 2: Organisation and procedure for receiving material property by a military unit. 1. Organisation and procedure for obtaining material property from the central supply depot.
17	Practical session	6	6		Lesson 3: Documentation of receipt of material property from the central storage facility. 1. Accounting transactions when receiving material property from the central supply depot.
18	Practical session	4	4		Lesson 4. Documentation of the delivery of physical property to the central supply depot. 1. Accounting transactions for the delivery of tangible property to the central supply depot.
19	Lecture	4	2		Lesson 5. Organisation and procedure for obtaining material property by a military unit. 1. Organisation and procedure for receiving material property in accordance with the orders of the central supply depot from another military unit.
				2	Organisation and procedure for receiving material property by a military unit.
20	Seminar	2	2		Lesson 6. Organisation and procedure for obtaining material property by a military unit. 1. Organisation and procedure for receiving material property in accordance with the orders of the central supply depot from another military unit.

21	Practical session	6	6		Lesson 7. Documentation of acceptance and transfer of material property from one military unit to another. 1. Accounting transactions when receiving material property from another military unit.
22	Practical session	4	4		Lesson 8. Documentation of acceptance and transfer of material property from one military unit to another. 1. Accounting operations for the transfer of material property to another military unit.
23	Lecture	4	2		Lesson 9. Organisation and procedure for receiving material property by a military unit. 1. Organisation and procedure for the transfer of material property with servicemen from one military unit to another.
				2	
24	Seminar	2	2		Lesson 10. Organisation, procedure and documentation of receipt of material property by a military unit. 1. Organisation, procedure and documentation of receipt of material property by a military unit.
25	Practical session	6	6		Lesson 11. Documentation of acceptance and transfer of material property from one military unit to another. 1. Accounting operations for the transfer of material property with military personnel from one military unit to another.
26	Practical session	6	6		Lesson 12. Accounting operations for acceptance of material property received by a military unit by road. 1. Documentation of receipt of material property received by a military unit by road.
27	Practical session	6	4		Lesson 13. Accounting transactions in the case of attachment to the material supply of a military unit. 1. Accounting operations in case of attachment to the material support of a military unit.
				2	
28	Control measures	4	4		Total.
Total		110	92	18	

Programme of the discipline

MS 02 "ORGANISATION OF MATERIAL SUPPORT"

General Objective of the Educational Programme Component:

to provide knowledge for further service in the positions of officers who are able to organise and conduct practical classes with junior specialists, clarify tasks, study the situation, make decisions and provide proposals to the head of the unit's material service to provide material resources of the material service; creation and maintenance of stocks of material property; bath and laundry services for military personnel of military units; organisation and repair of material property, technical means of the material service, chemical cleaning and

Upon completion of the educational programme component, the learner should know:

- the organisational structure and tasks of the military unit's material support service;
- the organisation of the material support of the military unit;
- organisation of bath and laundry services for personnel;
- basics and rules for providing material and technical means of the material support service;
- organisation of the protection of service property and facilities from weapons of mass destruction, measures to restore the service's combat capability;
- the procedure and rules for keeping records of material property and material means of the material service.

be able to:

- Manage the military unit's material support service and the organisation of its facilities;
- make decisions and manage units during the performance of combat missions in relation to material support;
- to clarify tasks, assess the situation, make decisions as the head of the military unit's logistics service in various types of tactical operations;
- to keep records and reports on the material support service;
- plan the economic activities of the property service and special training of junior specialists of the service;
- to carry out systematic control over the economic activities of the service.

Organisational and Methodological Guidelines:

The methodology of teaching the discipline is based on the basic principles of didactics (theory of justification and learning). It provides a scientific and pedagogical description of the forms and methods of teaching, indicates the most appropriate combinations to achieve a certain level of learning, determines the conditions for their most effective use.

To achieve the main learning objective, the programme provides for the following forms of learning:

- frontal form of learning, when all students perform the same task at the same time under the supervision of a teacher;
- group form of training, when students are combined into groups (sections) depending on the staffing structure of the unit, which work in parallel;

individual form of training, when students complete tasks sequentially, one by one.

In this case, depending on the need to achieve levels of knowledge or skills, the teacher should use the following methods

verbal and visual;

training;

situational and cognitive.

The verbal-visual method, in which the teacher systematically and consistently presents the educational material, shows (demonstrates) the subjects studied to obtain new knowledge and form the appropriate imagination.

The training (reproductive) method is based on performing complex actions in accordance with an algorithm (pre-established procedure) determined by the instructor to develop the necessary skills and ensure the coherence of military organisational structures.

Situational and cognitive - in reviewing and discussing real (probable) actions, learning about the experience of commanding troops (forces) in military conflicts and developing information and analytical skills.

The above methods provide students with knowledge, skills, and abilities, but to develop their creative abilities, the class leader should use problem-based learning methods.

Problem-based teaching is when the class leader poses a problem to the students, solves it himself, but at the same time shows the ways of solving it, reveals the course of his thought. The immediate result of problem-based teaching should be that the student learns the method and logic of solving a particular problem, but not yet the ability to apply it independently. This method teaches students how to search for knowledge and helps them develop creative thinking skills.

The search (heuristic) method serves the purpose of gradually bringing students closer to solving problems on their own by first teaching them how to perform certain elements of the solution. It is used during group exercises when the method of finding the optimal solution is determined by the class leader, but the solution is found by the student.

Problem-based methods provide a deep assimilation of knowledge at the level of its creative application, mastery of creative thinking methods, and practical experience.

Material and Technical Support:

Classes should be held in specialised classrooms, which, depending on the subject matter of the classes, should be equipped with information display devices, maps, diagrams, personal electronic computers at the rate of one workplace for no more than two students. It is mandatory to use technical training aids during the training sessions.

Information and Methodological Support:

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Order of the General Staff of the Armed Forces of Ukraine of 2016 No. 340 "On Approval of the Instruction on the Organisation of Internal Control in the Armed Forces of Ukraine".

Titles of Topics and Distribution of Study Time by Types of Academic Activities

No	Types of Academic Activities, Assessment Methods	Total Hours	Among them		Topic Title and Learning Points
			Contact Hours	Independent work	
1	2	3	4	5	6
		42	38	4	Topic 1: Provision of material support to conscripts.
1	Lecture	2	2		Lesson 1: Procedure for providing conscripts with material property of the Armed Forces of Ukraine. 1. Organisation of the provision of material property to servicemen in regular service of the Armed Forces of Ukraine. 2. Procedure for applying the norms of provision of material support to servicemen in regular service.
2	Lecture	2	2		Lesson 2: Organisation of the provision of material support to conscripts. 1. Organisation, procedure and documentation of the provision of material property to servicemen in regular service.
3	Lecture	4	2		Lesson 3: Organisation of the transfer of personal property of conscripts from one unit to another. 1. Organisation, procedure and documentation of the transfer of personal property of conscripts from one unit to another.
				2	Organisation of the transfer of personal property of servicemen in regular service from one unit to another.
4	Seminar	2	2		Lesson 4. Organisation, procedure and documentation of the provision of material property to conscripts of the Armed Forces of Ukraine. 1. Organisation, procedure and documentation of the provision of material property to conscripts of the Armed Forces of Ukraine.
5	Practical session	4	4		Lesson 5. Organisation and accounting for the issuance of tangible property to young recruits. 1. Organisation, procedure and documentation of the issuance of material property to young recruits.
6	Practical session	4	4		Lesson 6. Documentation of enrolment of servicemen in regular service in the provision of material support. 1. Organisation, procedure and documentation of enrolment of servicemen in regular service for material support in a military unit.
7	Practical session	4	4		Lesson 7. Documentation of the issuance of material property to servicemen in regular service. 1. Organisation, procedure and documentation of the issuance of material property to servicemen in regular service.
8	Practical session	2	2		Lesson 8. Documentation of withdrawal from the material support supply of conscripts. 1. Organisation, procedure and documentation of withdrawal from the material support supply of conscripts.
9	Practical session	4	4		Lesson 9. Documentation of the acceptance of material property by conscripts in special cases. 1. Organisation and documentation of the acceptance of material property received by conscripts without a certificate.
10	Practical session	4	4		Lesson 10. Documentation of the acceptance of material property by servicemen in regular service in special cases. 1. Organisation and accounting for the acceptance of material property received with conscripts in case of discrepancy between the actual availability and the data in the certificate.

11	Practical session	4	4		Lesson 11. Documentation of the provision of military personnel in regular service with material property upon their discharge to the reserve. 1. Organisation, procedure and documentation of the provision of military personnel in regular service with material property upon their discharge to the reserve.
12	Practical session	4	2		Lesson 12. Documentation of the transfer of personal property of conscripts from one unit to another. 1. Organisation, procedure and documentation of the transfer of personal property of conscripts from one unit to another.
				2	
13	Group session	2	2		Lesson 13. Provision of material property to servicemen in regular service. 1. Provision of material property to servicemen in regular service. 2. Modular control.
		28	22	6	Topic 2. Procedure for providing military personnel of the Armed Forces with inventory property in peacetime and special periods.
14	Lecture	4	2		Lesson 1: Organisation of provision of inventory property in a military unit. 1. The procedure for providing units and personnel with inventory items.
				2	
15	Seminar	4	2		Lesson 2: Procedure and documentation of the provision of military personnel and units of a military unit with inventory property. 1. Organisation, procedure and documentation of the provision of military personnel and units of a military unit with inventory property.
				2	
16	Seminar	2	2		Lesson 3: Organisation, procedure and documentation of the transfer of inventory property from one unit to another. 1. Organisation, procedure and documentation of the transfer of inventory property from one unit to another.
17	Practical session	6	6		Lesson 4. Organisation and documentation of the provision of inventory property to units and personnel of a military unit. 1. Documentation of the provision of inventory property to units of a military unit. 2. Documentation of the provision of inventory property to personnel in a unit of a military unit.
18	Practical session	8	6		Lesson 5. Documentation of the transfer of inventory property from the unit. 1. The procedure and documentation of the transfer of inventory property from one unit to another. 2. The procedure and documentation of the delivery of inventory property from the unit to the material warehouse.
				2	
19	Group session	4	4		Lesson 6. Procedure for providing military personnel of the Armed Forces with inventory property in peacetime and special periods. 1. The procedure for providing military personnel of the Armed Forces with inventory property in peacetime and special periods. 2. Modular control.
		20	18	2	Topic 3. The procedure for writing off material property in a military unit.
20	Lecture	2	2		Lesson 1: Organisation of disposal of material property in a military unit. 1. The procedure for disposal of material property in a military unit.
21	Lecture	4	2		Lesson 2: Organisation of the write-off of material property in a military unit. 1. Procedure for writing off material property in a military unit.

				2	Procedure for changing the qualitative state and writing off material property by the period of wear.
22	Seminar	2	2		Lesson 3. Operation of material property in a military unit. 1. Operation of material property in a military unit.
23	Practical session	4	4		Lesson 4. Organisation and documentation of the culling of material property in a military unit. 1. Documentation of rejection of material property.
24	Practical session	4	4		Lesson 5. Organisation and documentation of the distribution of material property in a military unit. 1. Documentation of the cutting of material property.
25	Group session	4	4		Lesson 6. Procedure for providing military personnel of the Armed Forces with inventory property in peacetime and special periods. The procedure for writing off material property in a military unit. 1. Procedure for providing military personnel of the Armed Forces with inventory property in peacetime and special periods. 2. The procedure for writing off material property in a military unit. 3. Modular control.
		26	22	4	Topic 4. Organisation of provision of material property for contract servicemen, persons liable for military service and reservists.
26	Lecture	4	2		Lesson 1: Provision of material support to contract servicemen, servicewomen and persons liable for military service. 1. Procedure and organisation of the provision of material property to contract servicemen, servicewomen and persons liable for military service. 2. Procedure and organisation of individual tailoring of uniforms in the studio
			2		Provision of material support to contract servicemen, servicewomen and persons liable for military service.
27	Seminar	2	2		Lesson 2: Organisation and procedure for the provision of material support to contract servicemen, servicewomen and persons liable for military service. 1. Organisation and procedure for the provision of material property to contract servicemen, servicewomen and persons liable for military service.
28	Practical session	6	6		Lesson 3: Organisation and documentation of the issuance of material property to contract servicemen. 1. Documentation of the issuance of personal property to contract servicemen. 2. Documentation of the issuance of material property to contract servicemen in lieu of other items.
29	Practical session	2	2		Lesson 4. Organisation and documentation of the issuance of material property to contract servicemen. 1. Documentation of the issuance of inventory property to contract servicemen.
30	Practical session	6	6		Lesson 5. Organisation and documentation of the issuance of material property to contract servicemen in case of transfer from military units belonging to the first group of provision of material property to military units belonging to the second group and vice versa. 1. Documentation of the issue of material property to contract servicemen in case of transfer from military units belonging to the first group of provision of material property to military units belonging to the second group and vice versa.
31	Practical session	4	2		Lesson 6. Procedure and documentation of individual tailoring in the studio. 1. Organisation, procedure and documentation of individual tailoring in the studio.
			2		Organisation of the provision of material property to contract servicemen, persons liable for military service and reservists.
32	Group session	2	2		Lesson 7. Organisation of the provision of material property to contract servicemen, persons liable for military service and reservists. 1. Organisation of the provision of material property for contract servicemen, persons liable for military service and reservists. 2. Modular control.

		14	12	2	Topic 5. Procedure for settlements with servicemen who are discharged or retired.
33	Lecture	4	2		Lesson 1: Procedure for calculating monetary compensation in lieu of material property to be issued and the value of debt for material property to servicemen who are discharged or retired. 1. Procedure for calculating monetary compensation in lieu of material property to be issued and the value of debt for material property to servicemen who are discharged in the reserve or retired.
			2		Procedure for calculating monetary compensation in lieu of material property to be issued and the value of debt for material property to servicemen who are discharged from the reserve or retired.
34	Seminar	2	2		Lesson 2: Procedure for calculating monetary compensation in lieu of material property to be issued and the value of arrears for material property to servicemen who are discharged or retired and the procedure for taxation of monetary compensation for unreceived material property. 1. Procedure for calculating monetary compensation in lieu of material property to be issued and the value of arrears for material property to servicemen who are discharged into the reserve or retired and the procedure for taxation of monetary compensation for unreceived material property.
35	Practical session	4	4		Lesson 3: Organisation and documentation of settlements with servicemen who are discharged into the reserve or retired with the right to wear military uniforms. 1. Organisation and documentation of settlements with servicemen who are discharged or retired with the right to wear military uniforms.
36	Practical session	4	4		Lesson 4. Organisation and documentation of settlements with servicemen who are discharged without the right to wear military uniforms and in other cases. 1. Organisation and documentation of settlements with servicemen who are discharged without the right to wear military uniforms and in other cases.
		12	10	2	Topic 6. Material liability of servicemen.
37	Lecture	2	2		Lesson 1: Liability of servicemen for damages caused to the state. 1. Types of material responsibility. 2. Determination of the amount of actual damage.
38	Seminar	2	2		Lesson 2: Compensation for damage caused to the state. 1. Writing off the loss of tangible property at the expense of the perpetrators. 2. Procedure for writing off tangible property on the basis of inspector's certificates
39	Seminar	2	2		Lesson 3. Ensuring the safety of material property in a military unit. 1. Ensuring the safety of material property in a military unit.
40	Practical session	4	2		Lesson 4. The procedure for recording losses and shortages of inventory in the registers. 1. The procedure for reflecting in the registers of accounting for losses and shortages of tangible property. 2. Documentation of the write-off of material property on the basis of inspector's certificates lost during the joint forces operation.
			2		Procedure for documenting the write-off of material property on the basis of inspector's certificates.
41	Group session	2	2		Lesson 5. Procedure for settlements with servicemen who are discharged or retired. Material responsibility of servicemen. 1. Procedure for settlements with servicemen who are discharged or retired. 2. Material responsibility of servicemen. 3. Modular control.
		6	4	2	Topic 7. Organisation of material support in special conditions.

42	Lecture	4	2		Lesson 1: Organisation of the work of the military unit's material support service during the formation and disbandment of a military unit. 1. The work of the material support service during the formation and disbandment of a military unit.
				2	
43	Seminar	2	2		Lesson 2: The work of the property service during the formation and disbandment of a military unit. 1. The work of the material support service during the formation and disbandment of a military unit.
		10	8	2	Topic 8: Organisation of control of economic activity in a military unit.
44	Lecture	4	2		Lesson 1: Control of economic activity of the military unit's property service. 1. Tasks, types and forms of control of economic activity of a military unit. 2. The procedure for controlling the economic activity of a military unit.
				2	
45	Seminar	2	2		Lesson 2: Organisation and conduct of control of economic activity of the material support service. 1. Organisation and conduct of control of economic activities of the material support service.
46	Practical session	4	4		Lesson 3: Documentation of the results of controlling the economic activity of the material support service. 1. Procedure for conducting an inventory of military property of the property service and documenting the results. 2. Procedure for conducting an audit of the economic activities of the material support service and documenting the results.
		26	22	4	Topic 9: The procedure for preparing annual reports.
47	Lecture	4	2		Lesson 1: Reporting on the material service in a military unit. 1. The importance and requirements for reporting. 2. Preparation activities and initial data for the preparation of reporting documents.
				2	
48	Seminar	2	2		Lesson 2: The work of the chief of the property service in preparing for the preparation of reports. 1. The work of the head of the material service in preparing for the preparation of reports.
49	Practical session	4	4		Lesson 3: Report on the provision of tangible property for the current year and application for the next year, form I/record section I. 1. Procedure for preparing the report on the provision of tangible property for the current year and the application for the next year, form I/etc. section I.
50	Practical session	2	2		Lesson 4: Report on the provision of sports, carriage and household property and decorative fabrics in the current year and application for the next year, form I/material section II. 1. Procedure for preparing the report on the provision of sports, carriage and household equipment and decorative fabrics in the current year and the application for the next year, form I/material, section II.
51	Practical session	2	2		Lesson 5: Report on special and sanitary material support, personal protective equipment for workers and employees, uniforms for paramilitary and fire protection and children's property for the current year, and application for the next year, form I/material section III. 1. Procedure for preparing a report on special and sanitary material support, personal protective equipment for workers and employees, uniforms for paramilitary and fire protection and children's property, and an application for the next year, form I/material section III.

52	Practical session	2	2		<p>Lesson 6. Report on the implementation of the plan of repair, chemical cleaning of material property and request for repair materials, equipment, tools for the next year, form 2/item and Report on the bath and laundry service of troops (forces), request for detergents, bath and laundry equipment, inventory and spare parts for the next year, form 3/ material.</p> <p>1. Procedure for drawing up a report on the implementation of the plan for repair, chemical cleaning of material property and a request for repair materials, equipment, tools for the next year, Form 2/ material.</p> <p>2. Procedure for drawing up a report on bath and laundry services for troops (forces), requests for detergents, bath and laundry equipment, inventory and spare parts for the next year, Form 3/ material.</p>
53	Practical session	2	2		<p>Lesson 7. Report on the availability, movement and renewal of fixed assets, form 4/ material.</p> <p>1. Procedure for drawing up a report on the presence, movement and renewal of material assets of fixed assets, form 4/ material.</p>
54	Practical session	4	2		<p>Lesson 8. Report on the detected loss of material assets Form 18/T.</p> <p>1. Procedure for preparing a report on the detected loss of material assets Form 18/T.</p>
			2		<p>The procedure for preparing annual reports.</p>
55	Group session	4	4		<p>Lesson 9. Organisation of control of economic activity in a military unit. The procedure for preparing annual reports.</p> <p>1. Organisation of control of economic activity in a military unit.</p> <p>2. The procedure for preparing annual reports.</p> <p>3. Modular control.</p>
		14	12	2	Topic 10. Mobilisation work in the material support service.
56	Lecture	2	2		<p>Lesson 1: The main tasks of the material support service during the period of mobilisation and the work of the chief of the material support service during mobilisation and bringing the military unit to combat readiness.</p> <p>1. Tasks of the material support service during the mobilisation and bringing the military unit into combat readiness.</p> <p>2. The work of the chief of the property service during the mobilisation and bringing the military unit into combat readiness.</p>
57	Lecture	2	2		<p>Lesson 2. Methods and peculiarities of developing planning documents for the chief of the military unit's property service.</p> <p>1. Plans for providing a military unit with material property.</p>
58	Seminar	2	2		<p>Lesson 3. Mobilisation readiness of the military unit's material support service. Evaluation of the state of mobilisation readiness of the material support service.</p> <p>1. Mobilisation readiness of the military unit's material support service.</p> <p>2. Assessment of the state of mobilisation readiness of the material support service.</p>
59	Lecture	2	2		<p>Lesson 4. Organisation of the work of the personnel reception point.</p> <p>1. Purpose of the reception point for personnel.</p> <p>2. Composition and procedure of the personnel equipment department</p> <p>3.. Duties of officials of the personnel equipment department</p>
60	Seminar	4	2		<p>Lesson 5. Organisation and operation of the reception centre for military unit personnel.</p> <p>1. Organisation and procedure of the reception point for military unit personnel.</p>
			2		<p>Mobilisation work on material support service.</p>
61	Group session	2	2		<p>Lesson 5. Mobilisation work in the material support service.</p> <p>1. Mobilisation work on the material support service.</p> <p>2. Modular control.</p>
		10	6	4	Topic 11: Peculiarities of material support provision of the Armed Forces of Ukraine in a special period.

62	Lecture	4	2		Lesson 1: Organisation of material support in a special period. 1. Organisation and procedure for the provision of military units in a special period. 2. Organisation and procedure for the provision of military personnel of the Armed Forces of Ukraine in a special period.
				2	Organisation of the provision of military units with material support in a special period.
63	Seminar	4	2		Lesson 2: Organisation of military units' material support in a special period. 1. Organisation of material support for military units in a special period.
				2	Procedure and documentation of keeping records of fixed stocks in the material support service and in the material warehouse of a military unit.
64	Practical session	2	2		Lesson 3: Procedure and documentation of keeping records of fixed stocks in the material support service and in the material warehouse of a military unit. 1. Documentation of keeping records of fixed stocks in the material support service of a military unit. 2. Documentation of keeping records of fixed stocks at the military unit's material depot.
		14	12	2	Topic 12: Procedure for keeping records and provision of material property during special operations.
65	Lecture	2	2		Lesson 1: Accounting of material property received as charitable aid and trophy material property. 1. Peculiarities of accounting for material property received in the form of charitable assistance to the Armed Forces of Ukraine. 2. Features of accounting for trophy property.
66	Practical session	2	2		Lesson 2: Recording in the registers of a military unit of material property received as charitable assistance and trophy material property. 1. Reflection in the registers of a military unit of material property received in the form of charitable assistance and trophy property.
67	Lecture	2	2		Lesson 3: Procedure for providing military personnel called up for mobilisation for the period of special operations with material property. 1. Procedure for providing military personnel called up for mobilisation for the period of special operations with material property.
68	Seminar	2	2		Lesson 4: Organisation and procedure for providing military personnel called up for mobilisation for the period of special operations with material property. 1. The organisation and procedure for providing military personnel called up for mobilisation for the period of special operations with material property.
69	Practical session	4	2		Lesson 5: Procedure and documentation of the provision of material property to servicemen called up for mobilisation. 1. Procedure and documentation of the provision of material property to servicemen called up for mobilisation.
				2	Peculiarities of the provision of material support to servicemen of the Armed Forces of Ukraine during a special period.
70	Group session	2	2		Lesson 6: Peculiarities of material support for servicemen of the Armed Forces of Ukraine in a special period. Procedure for keeping records and providing material support during special operations. 1. Peculiarities of material support provision of the Armed Forces of Ukraine in a special period. 2. Procedure for keeping records and providing material property during special operations. 3. Modular control.
		18	14	4	Topic 13. Acceptance and surrender of cases and position by the chief of the property service.
71	Lecture	2	2		Lesson 1: Planning the work of receiving and handing over cases and post by the chief of the property service. 1. Planning the work of receiving and handing over cases and post by the head of the property service.

72	Lecture	2	2		Lesson 2: Procedure for receiving and handing over cases and post by the chief of the property service. 1. Procedure for accepting and handing over cases and positions by the chief of the property service.
73	Lecture	4	2		Lesson 3: Documentation of the acceptance and handover of cases and position by the chief of the property service. 1. Documentation of acceptance and handover of cases and position by the head of the property service.
				2	
74	Seminar	4	2		Lesson 4. Procedure and documentation of acceptance and handover of cases and positions by the chief of the property service. 1. Procedure and documentation of acceptance and handover of cases and position by the chief of the property service.
				2	
75	Control measures	6	6		Examination
Total		240	200	40	

Programme of the discipline
MS 03 "BATH AND LAUNDRY SERVICE"

General Objective of the Educational Programme Component:

to provide knowledge on the ability to organise and conduct practical training with junior specialists, i.e. clarify the task, study the situation, develop solutions and provide proposals to the head of the military unit's material service regarding material support in the main types of combat, management of rear units in the main types of tactical operations, maintenance of material support in the military unit, documentation of material property during receipt, operation and write-off.

Upon completion of the educational programme component, the learner should know:

the main provisions of the guiding documents on the organisation of logistics support for the military material support service;
the main indicators of the purpose and technical characteristics of the equipment of the material support service;
organisation and provisions of guiding documents on bath and laundry services for troops;
organisation of safety measures for the operation of technical means, rules for the operation of technical means and other technological equipment, and fire prevention measures;

the procedure for providing technical means for the material support service of a military unit

planning of repair and quality control of repair of material support service equipment and its timing.

be able to:

qualitatively organise and provide technical means for the military unit's material support service, analyse and identify ways to improve it;

to receive, store, maintain and account for technical means of the material support service;

organise and provide high-quality laundry and washing of personnel both at the permanent deployment point and in the field;

deploy field technical equipment to the working position, prepare it for work, fold it and take measures for its storage;

to use computer equipment to automate the record keeping of technical means of the material support service;

work on the technical means of the material support service;

develop plans for the work of the material support service;

organise and conduct classes with junior specialists of the property service.

Organisational and Methodological Guidelines:

The methodology of teaching the discipline is based on the basic principles of didactics (theory of justification and learning). It provides a scientific and pedagogical description of the forms and methods of teaching, indicates the most appropriate combinations to achieve a certain level of learning, determines the conditions for their most effective use.

To achieve the main learning objective, the programme provides for the following forms of learning:

frontal form of learning, when all students perform the same task at the same time under the supervision of a teacher;

group form of training, when students are combined into groups (sections) depending on the staffing structure of the unit, which work in parallel;

individual form of training, when students complete tasks sequentially, one by one.

In this case, depending on the need to achieve levels of knowledge or skills, the teacher should use the following methods

verbal and visual;

training;

situational and cognitive.

The verbal-visual method, in which the teacher systematically and consistently presents the educational material, shows (demonstrates) the subjects studied to obtain new knowledge and form the appropriate imagination.

The training (reproductive) method is based on performing complex actions in accordance with an algorithm (pre-established procedure) determined by the instructor to develop the necessary skills and ensure the coherence of military organisational structures.

Situational and cognitive - in reviewing and discussing real (probable) actions, learning about the experience of commanding troops (forces) in military conflicts and developing information and analytical skills.

The above methods provide students with knowledge, skills, and abilities, but to develop their creative abilities, the class leader should use problem-based learning methods.

Problem-based teaching is when the class leader poses a problem to the students, solves it himself, but at the same time shows the ways of solving it, reveals the course of his thought. The immediate result of problem-based teaching should be that the student learns the method and logic of solving a particular problem, but not yet the ability to apply it independently. This method teaches students how to search for knowledge and helps them develop creative thinking skills.

The search (heuristic) method serves the purpose of gradually bringing students closer to solving problems on their own by first teaching them how to perform certain elements of the solution. It is used during group exercises when the method of finding the optimal solution is determined by the class leader, but the solution is found by the student.

Problem-based methods provide a deep assimilation of knowledge at the level of its creative application, mastery of creative thinking methods, and practical experience.

Material and Technical Support:

Classes should be held in specialised classrooms, which, depending on the subject matter of the classes, should be equipped with information display devices, maps, diagrams, personal electronic computers at the rate of one workplace for no more than two students. It is mandatory to use technical training aids during the training sessions.

Information and Methodological Support:

Order of the Ministry of Defence of Ukraine of 17.08.17 No. 440 "Instruction on Accounting for Military Property in the Armed Forces of Ukraine".

Order of the Ministry of Defence of Ukraine of 29.04.2016 No. 232 "On provision of material support to the military personnel of the Armed Forces of Ukraine".

Order of the Ministry of Defence of Ukraine of 18.07.2017 No. 370 "On Approval of Samples of Military Uniforms and General Requirements for Insignia of Military Personnel and Students of Military Lyceums".

Order of the Ministry of Defence of Ukraine No. 300 of 16.07.1997 "Regulations on the military (ship) economy of the Armed Forces of Ukraine".

Resolution of the Cabinet of Ministers of Ukraine of 3 May 2000, No. 748 "On Approval of the Regulation on Inventory of Military Property in the Armed Forces".

Temporary Instruction on Logistical Support of Combat Operations of Military Units of the Land Forces of the Armed Forces of Ukraine (draft) - K.: Land Forces Command of the Armed Forces of Ukraine, 2019.

Temporary instruction on bath and laundry services for the personnel of the Armed Forces of Ukraine for peacetime and special period, approved by the order of the commander of military unit A2516 of 28.12.2017 No. 312.

Regulation on the Procedure for the Creation, Storage, Renewal (Replacement), and Use of Fixed Stocks of Logistics Equipment and Other Logistics Material Resources in the Armed Forces of Ukraine, approved by Order of the Ministry of Defence of Ukraine No. 6t of 13.05.2016

Methodological Recommendations on the Organisation and Maintenance of Accounting in the Armed Forces of Ukraine, approved by Order of the Ministry of Defence of Ukraine No. 905 of 19.12.2014 (as amended)

Standard of symbols (second standard) for graphic design of operational (combat) documents STP 01.010.001-2014 (01), approved by the Order of the General Staff of the Armed Forces of Ukraine No. 187 dated 24.07.2014.

Methodological Recommendations on the Organisation of Logistical Support in Brigade (Battalion) Base Camps, Company (Platoon) Strongpoints, and Combat Positions. – Kyiv: Logistics of the Armed Forces of Ukraine., 2016. 19 p.

Order of the Chief of the Logistics of the Armed Forces of Ukraine of 18.11.2016 No. 262 "On Approval of the Guidelines for the Organisation of Operation and Repair of Equipment of the Logistics Service of the Armed Forces of Ukraine".

Order of the National Technical Department of the Armed Forces of Ukraine of 28.12.2017 No. 312 "On Approval of the Temporary Instruction on Laundry Services for the Personnel of the Armed Forces of Ukraine for Peacetime and Special Period".

Order of the National General Staff of the Commander-in-Chief of the Armed Forces of Ukraine of 22.03.2007 No. 50 "On Approval and Introduction of the Time Table of Urgent Reports on the Issues of Logistics Support of Troops (Forces) for Peacetime.

Technical means of the material support service. Training manual, part I, OISV 2000

Technical means of the material support service. Training manual, part II, OISV 2000

Guidelines for the operation and maintenance of tents in military units 2016.

Titles of Topics and Distribution of Study Time by Types of Academic Activities

No	Types of Academic Activities, Assessment Methods	Total Hours	Among them		Topic Title and Learning Points
			Contact Hours	Independent work	
1	2	3	4	5	6
		44	40	4	Topic1. The procedure for providing bath and laundry services in the Armed Forces of Ukraine.
1.	Lecture	4	2		Lesson 1: Bath and laundry services and the procedure for providing them to the personnel of the Armed Forces of Ukraine. 1. Organisation of washing of personnel of military units of the Armed Forces of Ukraine. 2. Organisation of laundry of material property in military units. Responsibilities of officials for the provision of bath and laundry services.
				2	Bath and laundry services and the procedure for providing personnel of the Armed Forces of Ukraine.
2.	Lecture	4	2		Lesson 2: Organisation of bathing services for military unit personnel in stationary conditions (PPS). 1. Equipment and requirements for the maintenance of military baths. 2. Sanitary rules for the maintenance of baths. 3. Accounting for bath and laundry services in military units.
				2	Organisation of bath facilities for military unit personnel in stationary conditions (PPD).
3.	Group session	6	6		Lesson 3: Organisation of bathing services for military unit personnel in stationary conditions (PPD). 1. Planning the work of bath and laundry enterprises, accounting and reporting. 2. Logistical support of bath and laundry services of military units.
4.	Lecture	2	2		Lesson 4. Technological equipment of mechanised laundries. 1. Classification of technological equipment. 2. Calculation of the need for technological equipment.
5.	Group session	6	6		Lesson 5. Placement of technological equipment in laundries. 1. Equipment of the workshop for receiving and sorting linen and uniforms. 2. Equipment of the laundry shop.
6.	Group session	6	6		Lesson 6. Equipment of the laundry shop 1. Washing machines, equipment and their characteristics. 2 Washing machines with front loading. 3. Washing machines with side loading
7.	Group session	6	6		Lesson 7. Equipment for removing moisture from laundry. 1. Centrifuges. 2. Installations of hydraulic spinning of linen.
8.	Group	6	6		Lesson 8. Equipment of the drying and ironing shop.

	session				1. Machines for shaking and drying laundry. 2. Machines for ironing clothes.
9.	Group session	4	4		Lesson 9. Installation of laundry equipment and organisation of preventive maintenance of laundry equipment. 1. Installation of equipment in laundry enterprises. 2. Organisation of equipment repair.
		46	42	4	Topic 2. Organisation of laundry and bath services in military units and formations.
10	Lecture	4	2		Lesson 1: Technological process of laundry and its main parameters. 1. Technological process of washing material property. 2. Technological process of spinning out material property after washing.
				2	Technological process of washing and its main parameters.
11	Lecture	2	2		Lesson 2. Synthetic detergents (SDS) used for laundry of military property in military units (formations). 1. Synthetic detergents, their solutions, current state and latest developments. 2. Chemical composition of the SMF.
12	Lecture	4	2		Lesson 3: Characteristics of the range and properties of SMW, their impact on the quality of laundry. 1. Consumer properties of SMW. 2. Classification of SMW.
				2	Synthetic detergents (SDS) used for washing of military property in military units (formations).
13	Group session	4	4		Lesson 4. Organisation of bath services for military personnel of a military unit. 1. The structure and equipment of a stationary military bath. 2. Organisation of washing the personnel of the military unit 3. Documentation of the bath.
14	Group session	2	2		Lesson 5. Organising the provision of bathing services in stationary conditions with the involvement of civilian household enterprises on the basis of contracts. 1. Organisational measures to involve civilian enterprises in the provision of bath services. 2. Preparation of a package of documents (contracts) for the provision of bath services.
15	Group session	2	2		Lesson 6. Organisation of laundry services in stationary conditions with the involvement of civilian household enterprises on the basis of contracts. 1. Organisational measures to attract civilian enterprises to provide laundry services. 2. Preparation of a package of documents (contracts) for the provision of laundry services.
16	Practical session	6	6		Lesson 7. Organisation of bathing services in inpatient settings. 1. Visit a military bathhouse and study the experience of organising the washing of military unit personnel
17	Practical session	6	6		Lesson 8. Organisation of laundry services in a residential setting. 1. Visit a military laundry and study the experience of organising the laundry of military unit property
18	Practical session	2	2		Lesson 9. Calculation and graphic work "Development and justification of the production process of a military (garrison) laundry"
19	Group session	4	4		Lesson 10. Organising the repair of material property after washing in the laundry of a military unit 1. Equipment, composition and technical capabilities of the laundry's material repair workshop. 2. Possible malfunctions, their elimination and adjustment of sewing machine mechanisms.
20	Seminar	4	4		Lesson 11: Organisation of the provision of bath and laundry services in stationary conditions with the involvement of contractual activities of the civilian sector in relation to the requirements of "Prozorro" in accordance with the state tender policy.

					1. Organisational measures to involve the civilian sector in the format of enterprises in the provision of bath and laundry services. 2. Formalisation of a relationship package for the provision of bath and laundry services.
21	Practical session	6	6		Lesson 12. Preparation and processing of documents for delivery for repair to the laundry's laundry workshop.
		42	40	2	Topic 3: Organisation of bath and laundry services for servicemen in the field.
22	Lecture	4	2		Lesson 1: Organisation of laundry services for military personnel in the field. 1. Laundry units, purpose, composition, organisational and staffing structure. 2. Deployment of laundry units in the field.
				2	Organisation of laundry services for military personnel in the field.
23	Group session	6	6		Lesson 2: Field technical means of laundering clothing. 1. Purpose, composition and technical data of the MMP-2 laundry. 2. Purpose, composition and capabilities of the MFP-1. 3. Purpose, composition and capabilities of IHLP.
24	Lecture	2	2		Lesson 3: Organisation of washing of personnel in the field. 1. Accommodation of personnel in the field in peacetime and in a special period. 2. The procedure for deploying a field bath on the base on the basis of DDA-3.
25	Practical session	8	8		Lesson 4: Organisation of deployment and operation of a brigade field bath. 1. Deployment of a field bath with the use of disinfection and shower installations. 2. Washing of personnel during a field trip.
26	Practical session	6	6		Lesson 5: Organising the deployment and operation of a field bath. 1. Deployment of a field bath with the use of a mobile bath and laundry complex (MBLC). 2. Organisation of washing personnel during combat operations.
27	Practical session	6	6		Lesson 6: Organising the deployment and operation of a field bath. 1. Deployment of a field bath with the use of a disinfection and shower facility DDA-66. 2. Organisation of washing personnel during combat operations.
28	Practical session	6	6		Lesson 7: Organising the deployment and operation of a field bath. 1. Deployment of a field bath with the use of a disinfection and shower facility DDP-2. 2. Organisation of washing of personnel in the field.
29	Seminar	4	4		Lesson 8: Organisation of bath and laundry services in the field. 1. Field technical means of washing material property. 2. Field technical means of washing personnel.
		28	26	2	Topic 4. Organisation of repair of material property in a military unit.
30	Lecture	4	2		Lesson 1: Organisation of repair of material property in a military unit. 1. The importance and types of repair of material property. 2. Organisation of planning and accounting for the repair of material property.
				2	Organisation of repair of material property in a military unit.
31	Seminar	4	4		Lesson 2: Planning and organising the repair of material property. 1. Planning and organisation of repair of tangible property.
32	Practical session	6	6		Lesson 3. Repair shop for military unit property. 1. Purpose and structure of the material repair workshop.

					2. Basic technological equipment of the workshop.
33	Practical session	6	6		Lesson 4. Documentation of receiving and issuing laundry in the laundry, issuing and writing off detergents for laundry in a military unit. 1. Documentation of the reception and delivery of linen in the laundry of a military unit. 2. Documentation of the issuance and write-off of detergents for laundry in a military unit laundry.
34	Practical session	2	2		Lesson 5. Procedure for drawing up an annual and monthly plan for the average repair of tangible property. 1. The procedure for drawing up an annual plan for the average repair of material property. 2. The procedure for drawing up a monthly plan for the average repair of material property.
35	Control measures	6	6		Examination
Total for the discipline		160	148	12	

Programme of the discipline

MS 04 "TECHNICAL EQUIPMENT OF THE MATERIAL SUPPORT SERVICE"

General Objective of the Educational Programme Component:

to provide knowledge on the ability to organise and conduct practical training with junior specialists, i.e. to clarify the task, study the situation, develop solutions and provide proposals to the head of the military unit's material service regarding material support in the main types of combat, management of logistics units in the main types of tactical operations, maintenance of material support in the military unit, documentation of material property during receipt, operation and write-off.

Upon completion of the educational programme component, the learner should know:

the main provisions of the guiding documents on the organisation of logistics support for the military service; the main indicators of the purpose and technical characteristics of the equipment of the military service;

organisation of safety measures for the operation of technical means, rules for the operation of technical means and other technological equipment, and fire prevention measures;

the procedure for providing technical means of the military unit's material support service

planning of repair and quality control of repair of material support service equipment and its timing.

be able to:

qualitatively organise and provide technical means for the military unit's material support service, analyse and identify ways to improve it;

to receive, store, maintain and account for technical means of the material support service;

deploy field technical means into working position, prepare them for work, fold them and take measures for their storage;

use computer equipment to automate the accounting of material support service technical means;

work on the technical means of the material support service;

develop plans for the work of the material support service;

organise and conduct classes with junior specialists of the property service.

Organisational and Methodological Guidelines:

The methodology of teaching the discipline is based on the basic principles of didactics (theory of justification and learning). It provides a scientific and pedagogical description of the forms and methods of teaching, indicates the most appropriate combinations to achieve a certain level of learning, determines the conditions for their most effective use.

To achieve the main learning objective, the programme provides for the following forms of learning:

frontal form of learning, when all students perform the same task at the same time under the supervision of a teacher;

group form of training, when students are combined into groups (sections) depending on the staffing structure of the unit, which work in parallel;

individual form of training, when students complete tasks sequentially, one by one.

In this case, depending on the need to achieve levels of knowledge or skills, the teacher should use the following methods

verbal and visual;
training;
situational and cognitive.

The verbal-visual method, in which the teacher systematically and consistently presents the educational material, shows (demonstrates) the subjects studied to obtain new knowledge and form the appropriate imagination.

The training (reproductive) method is based on performing complex actions in accordance with an algorithm (pre-established procedure) determined by the instructor to develop the necessary skills and ensure the coherence of military organisational structures.

Situational and cognitive - in reviewing and discussing real (probable) actions, learning about the experience of commanding troops (forces) in military conflicts and developing information and analytical skills.

The above methods provide students with knowledge, skills, and abilities, but to develop their creative abilities, the class leader should use problem-based learning methods.

Problem-based teaching is when the class leader poses a problem to the students, solves it himself, but at the same time shows the ways of solving it, reveals the course of his thought. The immediate result of problem-based teaching should be that the student learns the method and logic of solving a particular problem, but not yet the ability to apply it independently. This method teaches students how to search for knowledge and helps them develop creative thinking skills.

The search (heuristic) method serves the purpose of gradually bringing students closer to solving problems on their own by first teaching them how to perform certain elements of the solution. It is used during group exercises when the method of finding the optimal solution is determined by the class leader, but the solution is found by the student.

Problem-based methods provide a deep assimilation of knowledge at the level of its creative application, mastery of creative thinking methods, and practical experience.

Material and Technical Support:

Classes should be held in specialised classrooms, which, depending on the subject matter of the classes, should be equipped with information display devices, maps, diagrams, personal electronic computers at the rate of one workplace for no more than two students. It is mandatory to use technical training aids during the training sessions.

Information and Methodological Support:

Order of the Chief of the Logistics of the Armed Forces of Ukraine No. 262 of 18.11.2016 "On Approval of the Guidelines for the Organisation of Operation and Repair of the Equipment of the Logistics Service of the Armed Forces of Ukraine".

Order of the NTCSU of the Ministry of Defence of Ukraine of 28.12.2017 No. 312 "On Approval of the Temporary Instruction on Bath and Laundry Services for the Personnel of the Armed Forces of Ukraine for Peacetime and Special Period".

Order of the Ministry of Defence of Ukraine of 07.12.2018, no. 617. On the approval of the mobile laundry module MLPM for use in the Armed Forces of Ukraine.

Order of the Ministry of Defence of Ukraine of 29.03.2021 No. 81 "On Approval of the Procedure for Writing Off Military Property in the Armed Forces of Ukraine and the State Special Transport Service".

Vehicles and MLPK: a textbook / V. Ollo, O. Sakno, T. Kolesnikova - Odesa: OLDI-PLUS, 2021. 514 p.

Operation and preservation of tents in military units: a textbook / O. Masliy, V. Olekhnovych, O. Fedchenko, V. Smutok, O. Zakusylo, Y. Yatskiv, V. Melnyk, Y. Ivanchenko, L. Snihur, V. Ollo, M. Shkrabov. Odesa: Military Academy, 2020. 139 p.

Technical means of the material support service. Study guide, part I, OISV 2000

Technical means of the material support service. Study guide, part II, OISV 2000

Guidelines for the operation and preservation of tents in military units, 2016.

Mobile bath and laundry complex. Technical specifications. TU U 28.9-05763814-119:2015 - 42 p.

Mobile bath and laundry complex. Bath module. Instruction for routine maintenance MLPK.01.000.000 RT - 31 p.

Mobile bath and laundry complex. Laundry module. Maintenance manual MLPK.02.000.000 RT - 39 p.

Mobile bath and laundry complex. Bath module. Operating instructions. MLPK.01.000.000 NE - 113 p.

Mobile bath and laundry complex. Laundry module. Operating instructions. MLPC.02.000.000 NE - 105 p.

Mobile bath and laundry module. Operating instructions MLPM.03.000.000NE - 132 p.

Technical means of the material support service. Training manual, part I, OISV 2000

Technical means of the material support service. Study guide, part II, OISV 2000

Titles of Topics and Distribution of Study Time by Types of Academic Activities

No	Types of Academic Activities, Assessment Methods	Total Hours	Among them		Topic Title and Learning Points
			Contact Hours	Independent work	
1	2	3	4	5	6
		4	4		Topic 1. Introduction to the discipline.
1.	Lecture	2	2		Lesson 1: Introduction. Subject and objectives of the discipline technical means of the material support service (TMSS). 1. Procedure for studying the discipline technical means of material support service. 2. Classification of technical means of the material support service (TMSS). The latest models of technical means of the material support service (TMSS), which is operated in the combat zone.
2.	Lecture	2	2		Lesson 2: Organisation of documentary registration of commissioning and decommissioning of technical means of the material support service 1. Procedure and documentation of commissioning of equipment. 2. Procedure and documentation of the write-off of property service equipment.
		16	12	4	Topic 2. Mobile bath and laundry complex - MLPC.
3.	Lecture	4	2		Lesson 1: Mobile bath and laundry complex - MLPC. Technical means, units of the basic unit and components. 1. Algorithm of structure and application of norms for ensuring the technical nominal state of performance. 2. Technical characteristics, capabilities, operational compliance and functional reliability.
				2	Mobile bath and laundry complex - MLPC. Completeness and internal equipment of the complex modules
4.	Practical session	4	4		Lesson 2. Mobile bath and laundry complex - MLPC. Technical means, units of the basic unit and components. 1. Installation, preparation for operation and intended use. 2. Operational measures, according to the complete set.
5.	Practical session	4	4		Lesson 3. Mobile bath and laundry complex - MLPC. Technical means, units of the basic unit and components. 1. Practical and methodological recommendations for the organisation of maintenance and operating rules. 2. Actions in accordance with extreme conditions of survivability and resistance to external influences.
6.	Group session	4	2		Lesson 4. Mobile bath and laundry complex - MLPC. Technical means, units of the basic unit and components.

					1. Practical and methodological recommendations for the organisation of repair of the bath module. 2. Practical and methodological recommendations for the organisation of repair of the laundry module. 3. Requirements and ways to improve performance and operational limitations.
				2	Requirements for the organisation of repair of systems of MLPC modules.
		50	38	12	Topic 3. Disinfection and shower units, mobile power plants.
7.	Lecture	2	2		Lesson 1: Mobile power plants. 1. Classification and requirements for the organisation of the operation of mobile power plants. 2. Purpose, tactical and technical data, structure and principle of operation of mobile power plants.
8.	Group session	4	2		Lesson 2: Purpose, tactical and technical data, structure and operation of mobile power plants. 1. Purpose, tactical and technical data, structure and principle of operation of the ESD-10/T-230. 2. Purpose, tactical and technical data, structure and principle of operation of the ESD-20/T-230.
				2	Structure and capabilities of mobile power plants AB-8 T-230-M, AB-4 O-230.
9.	Practical session	2	2		Lesson 3: Organisation of mobile power plant operation 1. Deployment, operation and decommissioning of the ESD-10/T-230. 2. Deployment, operation and shutdown of the ESD-20/T-230. 3. Maintenance of mobile power plants.
10.	Lecture	4	2		Lesson 4. Organisation of operation of disinfection and shower installations (DSI). 1. Purpose, tactical and technical data, structure of disinfection and shower installations. 2. Structure and operation of components of disinfection and shower installations.
				2	Purpose and capabilities of disinfection and shower installations.
11.	Group session	2	2		Lesson 5 Organisation of operation of disinfection and shower installations (DSI). 1. The procedure for deployment and safety measures during the operation of disinfection and shower facilities. 2. Preparation for work and operation of disinfection and shower facilities.
12.	Group session	8	6		Lesson 6. Purpose and capabilities of DDA-3; DDA-66; DDE-2; DDE-2M. 1. Purpose and capabilities of DDA-3. 2. Purpose and capabilities of DDA-66. 3. Purpose and capabilities of DDP-2M.
				2	Purpose and capabilities of DDA-3; DDA-66; DDP-2; DDP-2M.
13.	Practical session	8	6		Lesson 7. Disinfection and shower unit DDA-66. 1. Deployment and preparation for operation of DDA-66. 2. Folding and preparation for storage of DDA-66.
				2	Completeness of the DDA-66 for the deployment of a field bath.
14.	Practical session	8	6		Lesson 8. Disinfection and shower unit DDA-3. 1. Deployment and preparation for operation of DDA-3. 2. Folding and preparation for storage of DDA-3.
				2	Layout of equipment and spare parts in the DDA-3 trailer.
15.	Practical session	6	6		Lesson 9. Disinfection and shower unit DDP-2M. 1. Deployment and preparation for operation of DDP-2M. 2. Folding and preparation for storage of DDP-2M.
16.	Group	6	4		Lesson 10. Organisation of maintenance of disinfection and shower installations.

	session				1. Maintenance of disinfection and shower installations. 2. Characteristic malfunctions of disinfection and shower installations and methods of their elimination. 3. Rules for storage of disinfection and shower installations.
				2	Requirements for maintenance of disinfection and shower installations.
		12	10	2	Topic 4. Fast water heating boiler -.
17.	Group session	6	4		Lesson 1: Purpose, structure and technical characteristics of FWHB -1, FWHB -20. 1. Purpose, structure and technical characteristics (FWHB -1, FWHB -20). 2. Maintenance (maintenance) of the shower unit - FWHB -1, FWHB -20.
				2	Structure, deployment and maintenance of the FWHB.
18.	Practical session	6	6		Lesson 2. Installation of a shower unit - FWHB -1, FWHB -20. 1. Maintenance (maintenance) of the shower installation - FWHB -1. FWHB -20. 2. Installation of a shower unit - FWHB -1, FWHB -20.
		45	32	13	Topic 5. Tents.
19.	Lecture	4	2		Lesson 1: Tents. 1. Classification, purpose and structure of tents. 2. General requirements for installation activities.
				2	Classification, purpose and structure of tents.
20.	Practical session	8	6		Lesson 2. Deploying and collapsing unified tents. 1. Completeness of the unified tent USB-56. 2. Deployment and folding of the USB-56 unified tent.
				2	Completeness of the USB-56 unified tent.
21.	Practical session	8	6		Lesson 3. Deploying and collapsing unified tents. 1. Completeness of the unified tent UZ (UL) -68. 2. Deployment and folding of the unified tent UZ (UL) -68. 3. Deployment and folding of the unified tent UST-56.
				2	Completeness of the unified tent UZ (UL)-68.
22.	Practical session	8	6		Lesson 4. Deploying and collapsing unified tents. 1. Completeness of a unified modular frame tent (special unified, type 2, type 2, class 2). 2. Deployment and folding of a unified modular frame tent (special unified, type 2, type 2, class 2).
				2	Completeness of a unified modular frame tent (special unified, type 2, type 2, class 2).
23.	Practical session	8	6		Lesson 5. Deploying and collapsing unified tents. 1. Complete set of a unified modular frame tent (special unified, type 3, type 2, class 2). 2. Deployment and folding of a unified modular frame tent (special unified, type 3, type 2, class 2).
				2	Completeness of a unified modular frame tent (special unified, type 3, type 2, class 2).
24.	Practical session	9	6		Lesson 6. Deploying and collapsing unified tents. 1. Completeness of the unified tent Wtatherhaven (UK). 2. Deployment and collapse of the Wtatherhaven unified tent (UK).
				3	Completeness of the Wtatherhaven unified tent (UK).
		23	16	7	Topic 6. Mobile bath and laundry module.
25.	Lecture	5	2		Lesson 1: Mobile bath and laundry module - MLPM. Technical means, units of the basic unit and

					<p>components.</p> <ol style="list-style-type: none"> 1. Technical characteristics, capabilities, operational compliance and functional reliability. 2. Algorithm of construction and application of standards for ensuring the technical nominal state in terms of performance.
				3	Composition and rules of operation of the water supply system of the laundry module.
26.	Practical session	2	2		<p>Lesson 2. Mobile bath and laundry module - MLPM. Technical means, units of the basic unit and components.</p> <ol style="list-style-type: none"> 1. Requirements and ways to improve performance and operational limitations. 2. Practical and methodological recommendations for the organisation of maintenance and operating rules. 3. Actions according to extreme conditions of survivability and resistance to external influences.
27.	Practical session	4	2		<p>Lesson 3. Spare parts, tools and accessories of the technical means during the operation of the basic unit and its components. Mobile bath and laundry module - MLPM.</p> <ol style="list-style-type: none"> 1. Spare parts (spare parts) - composition and purpose for determining the level of constructability and completeness standards. 2. The list of components of tools and accessories, technical characteristics and purpose for the implementation of preventive and repair measures. 3. Installation, preparation for operation, intended use and use in accordance with the standards of completeness.
				2	Composition and rules of operation of the water supply system of the bath module.
28.	Lecture	4	2		<p>Lesson 4. Internal and sanitary equipment of the technical means during the operation of the units of the basic unit and components. Mobile bath and laundry module - MLPM.</p> <ol style="list-style-type: none"> 1. Internal equipment. 2. Sanitary equipment.
				2	Composition and requirements for the rules of operation of sanitary equipment.
29.	Practical session	2	2		<p>Lesson 5. Internal and sanitary equipment of the vehicle during the operation of the basic unit and its components. Mobile bath and laundry module - MLPM.</p> <ol style="list-style-type: none"> 1. Application and use for troubleshooting. 2. Actions in accordance with extreme conditions of survivability and resistance to external influences.
30.	Control measures	6	6		Credit.
Total for the discipline		150	112	38	

