

MINISTRY OF DEFENCE OF UKRAINE

Military Academy (Odesa)

**EDUCATIONAL PROGRAMME OF COURSES
PROFESSIONAL MILITARY EDUCATION**

***PROFESSIONAL COURSE OF TACTICAL LEVEL
MARINE INFANTRY CORPS, L-1B (MIC)***

**in the military
accounting speciality**

*021400 "Combat employment of formations,
military units and subunits of the Marine Infantry
Corps"*

APPROVED

by the Academic Council of the Military Academy (Odesa)

(minutes of "____" ____ 20__ year №__)

Chairman of the Academic Council
of the Military Academy (Odesa)

Major General

Major General Andrii KOVALCHUK

Put into effect

by the order of the Chief of the Military Academy (Odesa) dated "____" ____

20__ year №__

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APPROVAL SHEET

**OF THE EDUCATIONAL PROGRAMME OF THE COURSE
OF PROFESSIONAL MILITARY EDUCATION
PROFESSIONAL COURSE OF TACTICAL LEVEL
MARINE INFANTRY CORPS L-1B (MIC)**

in the military speciality *021400 "Combat employment of formations,
military units and subunits of the Marine Infantry
Corps "*

APPROVED

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

Volodymyr MIRNENKO

_____ 2024

APPROVED

Chief of the Central Department of
Military Education and Science of the
General Staff of the Armed Forces of
Ukraine
colonel

Oleh PAVLOVSKYI

_____ 2024

APPROVED BY

Commander of the Naval Forces of
the Armed Forces of Ukraine
Vice Admiral

Oleksii NEIZHPAPA

_____ 2024

Developed and submitted by

Head of the working group

Head of the Doctrine and Training
Department of the Navy Training
Command, military unit A0456
colonel

Colonel Oleksandr OREKHOV

_____ 2024

FOREWORD

Developed by a working group of the Naval Forces Command and the Military Academy (Odesa).

Order of the Commander of the military unit A0456 dated 20 May 2024 No. 186/AGD.

Head of the working group:

OREKHOV Oleksandr Viktorovych - Colonel, Head of the Department of Doctrine and Training of the Navy, Training Command of Military Unit A0456.

Member of the working group:

MAZUR Volodymyr Viktorovych - Colonel, Head of the Individual Training Department of military unit A2022;

ROSENFELD Serhii Volodymyrovych - Colonel, Deputy Head of the Centre for Advanced Training and Head of the Training Unit of the Military Academy (Odesa);

KLYMENKO Vadym Mykolaiovych - Candidate of Military Sciences, Associate Professor, Colonel, Head of the Department of Control of Airborne Assault Forces and Marine Infantry Corps, Faculty of Training of Specialists of Airborne Assault Forces and Marine Infantry Corps, Military Academy (Odesa);

MARAR Yurii Oleksandrovych - Captain (1st rank), Head of the Department of Doctrine and Training of Military Units of the Ministry of Defence and the Department of Doctrine and Training of the Navy, Training Command of Military Unit A0456;

KUZ Serhii Mykolaiovych - Colonel, Head of the Faculty of Training of Specialists of the Airborne Assault Forces and Marine Infantry Corps, Military Academy (Odesa);

BABAK Vasyl Ivanovych - Doctor of Philosophy, Colonel, Head of the Department of Airborne Training of the Faculty of Specialist Training of the Airborne Assault Forces and Marine Infantry Corps, Military Academy (Odesa);

YARMOLIUK Vadym Mykhailovych - Candidate of Technical Sciences, Senior Researcher, Colonel, Head of the Department of Armoured Vehicles, Faculty of Specialist Training of Airborne Assault Forces and Marine Infantry Corps, 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. Suggestions from trainees.*
- 4. Experience in combat operations.*

I. PROFILE OF THE EDUCATIONAL PROGRAMME

1 - General information	
Full name of the higher education institution (higher education institution)	Military Academy (Odesa)
Name of the document on completion and scope of the educational programme of the professional military education course	Certificate of completion of the course "Professional course of the tactical level of the Marine Infantry Corps, L-1B (MIC)". VOS 021400. Scope of the educational programme: 30 ECTS credits.
Prerequisites.	Presence or obtaining (for cadets) a higher education degree not lower than a bachelor's degree; completion of the basic course of tactical level L-1A; for military personnel: military service as a private or sergeant (sergeant major); for civilians: health condition for military service in the Armed Forces of Ukraine.
Language(s) of instruction	Ukrainian
Validity of the educational programme of the vocational education course	Until the update or introduction of a new educational programme.
2 - Objectives of the educational programme	
Training at the tactical level of qualified officers who are competent in the organisation and management of the unit at the level of platoon commander of the Navy.	
3 - Characteristics of the study programme	
Subject area	Field of knowledge: "25 Military sciences, national security, state border security"; Speciality: "253 Military management (by types of armed forces)"; Specialisation: "Management of marine units".
The main focus of the educational programme of the professional education course	Professional military education for military service in typical positions defined in the professional standard of a tactical officer in the areas of education and training 021200, 021300, 021400.
Programme features	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 dated 29.06.2024 № 97672 / C, and the actual experience of combat operations gained during the anti-terrorist operation, the joint forces operation and repulsion of the full-scale invasion of Russia into the territory of Ukraine.
4 - Opportunities for graduates to find employment and further education	
Employment opportunities	Primary positions of junior officers as defined in the professional standard of a tactical officer.
Further education	Preparation under the educational programme of the professional

	military education course "Marine Corps Tactical Level Command Course L-1C (MP)".
5 - Teaching and assessment	
Teaching and learning	The main types of learning activities for teaching the components of the educational programme are: lecture, practical, seminar, group lesson, group exercise, tactical flight, tactical (tactical-special) lesson, tactical formation lesson, training, individual work.
Assessment.	Assessment of the learning outcomes of course trainees includes 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-specific competences (MSC)	GMK 1 Ability to apply knowledge, skills and practical skills in the management of actions and tactics of units (up to and including company) of the Naval Infantry of the Navy of the Armed Forces of Ukraine in normal (emergency), emergency and new situations in peacetime and wartime (special period) using NATO procedures.
	UCS 2 The ability to use all firearms in service with the units of the Naval Infantry of the Ukrainian Navy, both small arms and weapons of combat vehicles (including foreign models).
	UCL 3 Ability to organise and conduct training of personnel and cargo for parachute landing.
	UCL 4 The ability to use knowledge of the technical characteristics and structure of armoured vehicles of the Ukrainian Navy and foreign models to ensure their correct operation.
	ECF 5 Ability to drive various types of combat vehicles (including foreign models), check the condition of vehicles, conduct rapid diagnostics of equipment and weapons of the unit and make decisions on their further operation.
7 - Programme learning outcomes	
Professional training (PLO)	PLO 1 Reproduce the tactics of the Navy marine units (combat support units) in various types of combat (taking into account the experience of combat operations), apply standard operating procedures for TLP planning used in the armies of the world's leading countries, organise the interaction of regular and attached units (up to and including company), use the capabilities of amphibious assault vehicles, landing of marine units on the shore, on the raft and berths.
	LO 2 Apply the principles of combined arms combat, provisions of combat manuals and guidelines, while performing combat missions, assess the situation, conduct tactical calculations, make informed decisions, conduct reconnaissance, set combat tasks for units, organise their interaction, use combat capabilities of the marine units of the Ukrainian Navy, their standard weapons and military equipment, control fire and units in the main types of combat, adjust artillery fire, organise and carry out marching, covertly deploy units on the ground, provide security and defence in the area of concentration, use individual and collective weapons and military equipment in difficult combat conditions in various terrain in cooperation with units of other branches of the armed forces.

	<p>LO 3 Know the structure, tactical and technical characteristics of weapons and military equipment of naval infantry units, rules of fire from standard weapons, requirements of the Course of small arms and armament of combat vehicles for the organisation of Firearms and Weapons Training.</p>
	<p>LO 4 Organise and carry out the correct operation, maintenance, storage and preparation of small arms and armament of combat vehicles for combat employment, bring small arms and armament of combat vehicles to normal combat, perform training firing exercises with standard weapons and armament and monitor compliance with safety measures during sessions, firing, exercises, organise Firearms and Weapons Training.</p>
	<p>TO 5 Operate airborne equipment in accordance with the rules of its operation and storage in combat readiness, the requirements of the Airborne Service Manual and guiding documents that determine the organisation and procedure for the preparation of personnel and cargo for airborne operations.</p>
	<p>PHbc 6 Organise and methodically correctly carry out parachute deployment and their stage-by-stage control, conduct ground training and pre-jump training, prepare personnel and cargo for airborne assault, perform the duties of a release officer, and keep records of airborne training.</p>
	<p>LO 7 Know the structure and reproduce the procedure for operating all types of combat vehicles in service with the unit (including those of NATO member states and enemy armies), the procedure for maintenance of BTOT samples.</p>
	<p>LO 8 Know the requirements of the Combat Vehicle Driving Course; make full use of the technical capabilities of combat vehicles, drive them confidently on various terrain, overcome various obstacles, limited and track passages and barriers, load (unload) equipment onto vehicles, self-pull out when vehicles are stuck and tow them, organise driving lessons with subordinate personnel.</p>
	<p>PLO 9 Acquire sufficient skills in organising and conducting training sessions in tactical, firearms, airborne and technical training (including the use of simulators) in the unit; develop planning and reporting documents; effectively use training facilities and objects of the training material and technical base; ensure compliance with safety measures during training sessions and exercises.</p>
8 - Resource support for programme implementation	
Staffing	<p>Academic and teaching staff involved in the educational programme are full-time employees of the Military Academy, some of them have academic degrees and academic titles.</p> <p>The practice-oriented nature of the educational programme involves the wide participation of practitioners who are relevant to the programme, which enhances the synergy between theoretical and practical training.</p> <p>The head and members of the working group on the development of the programme, as well as the teaching staff that ensures the implementation of the educational programme meet the requirements set by the Ministry of Defence of Ukraine.</p>
Logistics support	<p>The material and technical base of the Military Academy (Odesa) and the Military Academy's Educational Process Support Centre is used to</p>

	<p>implement the competencies and learning outcomes specified in the educational programme. The material and technical support meets the requirements for the provision of educational services and is sufficient to ensure the quality of the educational process, in particular: classrooms; computer classes (laboratories); specialised laboratories; gyms, sports grounds; library, reading room; multimedia equipment; premises for research and teaching staff; barracks premises; dining room, etc.</p>
<p>Information and teaching and learning 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 sessions; teaching and methodological materials for all types of lessons; methodological instructions for organising independent work; diagnostic tools. <p>The library fund is used in the training, including teaching materials, teaching and methodological developments of pedagogical staff.</p> <p>The programme is implemented using the virtual learning environment of the Military Academy (Odesa), author's developments, textbooks and manuals, and other teaching and methodological materials.</p> <p>The official website of the Academy (http://vaodesa.mil.gov.ua/) contains information about 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. LIST OF COMPONENTS OF THE CURRICULUM OF THE PROFESSIONAL
MILITARY EDUCATION COURSE AND COMPLIANCE OF PROGRAMME
COMPETENCIES AND LEARNING OUTCOMES WITH THE COMPONENTS OF
THE CURRICULUM**

2.1. List of EP components

Code n/disc.	Components of the educational programme (academic disciplines/modules)	Number of credits	Form of final control
BC 1	Management of actions and tactics of units of the Marine Infantry Corps	13,0	Examination
BC 2	Firearms and Weapons Training	8,0	Examination
BC 3	Airborne training	3,0	Credit
BC 4	Structure of armoured vehicles	2,0	Credit
BC 5	Driving combat vehicles	2,0	Credit
BC 6	Operation of armoured vehicles	2,0	Credit
Total under the loan programme		30,0	

2.2 Correspondence of the programme competences to the components of the educational programme

	BC 1.	BC 2.	BC 3.	BC 4.	BC 5.	BC 6.
VSK 1	+					
VSK 2		+				
VSK 3			+			
VSK 4				+		+
VSK 5					+	+

2.3 Relevance of learning outcomes to the components of the study programme

	BC 1.	BC 1.	BC 3.	BC 4.	BC 5.	BC 6.
RN BC 1	+					
RN BC 2	+					
RN BC 3		+				
RN BC 4		+				
RN BC 5			+			
RN BC 6			+			
RN BC 7				+		+
RN BC 8					+	+
RN BC 9	+	+	+	+	+	+

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

No. s/n	Code of academic discipline code	Name of the discipline (module)	Final reporting (distribution by semesters)		Number of ECTS credits	Number of hours					Control measure	Independent work	Distribution of contact hours by courses and semesters									
			exams	tests		total amount	Contact hours						1st year	2nd year	3rd year	4th year						
							total	including														
								lectures	group lectures seminars	practical, laboratory												
																Semesters						
													1	2	3	4	5	6	7	8		
													Number of weeks in the semester									
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21		
1	BC 1	Command and control and tactics of Marine Corps units	6		13,0	390	326	28	146	152	6	58			72	86	76	92				
2	BC 2	Firearms and Weapons Training	6		8,0	240	220	2	94	124	6	14		36	46	48	38	52				
3	BC 3	Airborne training		4	3,0	90	86	8	30	48	4		34	18	18	16						
4	BC 4	Structure of armoured vehicles		5	2,0	60	56	4	18	34	4		12	12	8	10	14					
5	BC 5	Driving combat vehicles		7	2,0	60	56	2		54	4			12	8	8	8	12	8			
6	BC 6	Operation of armoured vehicles		7	2,0	60	56	4	16	36	4				10	12	12	10	12			
Total:					30,0	900	800	48	304	448	28	72	46	78	162	180	148	166	20			
Total number					30,0	900	800	48	304	448	28	72	46	78	162	180	148	166	20			
Number of hours per week																						
Number of exams																						
Number of tests																						

4 . PROGRAMMES OF THE EDUCATIONAL PROGRAMME COMPONENTS

BC 1 COMMAND AND CONTROL AND TACTICS OF MARINE INFANTRY UNITS

name of the component

General purpose of the component of the educational programme:

the main purpose of teaching the discipline "Management of actions and tactics of marine infantry units" is:

the study of modern combined arms combat, forms and methods of use of a marine platoon, methods of movement and location on the ground; development of practical skills in the Troop Leading Procedures (TLP), development of the platoon commander's decision, its application on the operational (working) map and interpretation of the tactical situation, Platoon command and control in the main types of combat (tactical actions); training of an officer capable of creatively applying the provisions of the Articles of War in preparation for landing and during combat missions, conducting operations behind enemy lines and managing a unit in combat; organising and methodically conducting tactical training sessions.

As a result of studying the component of the educational programme, the trainee must:

know

the main forms of tactical actions of units and their types; the role, place and tasks of units in a general combat;
the basic principles and methods of conducting a general battle;
content of platoon preparation for action, algorithm of work of the platoon commander on the organisation of combat, including the organisation of interaction and Combat Service Support;
organisation and manning of the platoon, combat and Combat Service Support units;
tactical and technical characteristics of weapons and military equipment (WME) of organic and attached units, the procedure for their employment in combat;
platoon communications equipment, its tactical and technical characteristics and the procedure for using it;
the content of unit command and control and its requirements, methods of commanding units in combat, the procedure for reporting on the situation and command signals;
types of manoeuvre by units and platoon fire and the procedure for their organisation in combat;
the basics of combat, logistics, technical, moral and psychological and medical support of the platoon and the procedure for their organisation in combat;
the basics of the location of units on the ground and the organisation of their protection;
the basics of unit movement, their marching security and organisation of transport;
the basics of unit defence, defence in special conditions, platoon actions in the encirclement and escape from the encirclement, the procedure for withdrawal from combat and retreat;
the basics of offensive combat of units, offensive in special conditions, during the forcing of a water obstacle.

be able to:

make decisions in a timely manner, set tasks, persistently pursue their fulfilment and report to the senior commander on the completion of the task in a timely manner;
skilfully use the platoon's firepower and the results of enemy fire damage;
prepare the platoon and attached units for action;
skilfully lead regular and attached units in the performance of assigned tasks;
call for and adjust artillery and aviation fire;
promptly organise maintenance of weapons and equipment, and in case of damage, report to the senior commander and arrange for repair;
skilfully use communications equipment and train their subordinates to work with it, including the use of negotiation tables, coded maps and signal tables;
monitor the consumption of ammunition, fuel, food and water, report to their commander on the use of ammunition and fuel in a timely manner, and take measures to replenish them;
monitor the maintenance of NCOs' and soldiers' equipment and its proper use;
organise moral, psychological and medical support, take measures to provide timely shelter for the wounded, servicemen who have suffered severe combat and psychological trauma, and keep records of them.

Organisational and methodological instructions:

Lessons on the discipline "Management of actions and tactics of marine infantry units" are conducted as part of a training platoon in lectures, group sessions, practical sessions and independent work. Training sessions are held in equipped classrooms and areas of the tactical field. Prior to the practical training, it is mandatory to review and practise safety measures. and clarify them before the start of the training. Personnel with individual small arms..

In group sessions, trainees receive theoretical knowledge on the use of a platoon during tactical operations, while in practical sessions, trainees practise platoon actions. The main focus is on trainees performing practical tasks in the role of a platoon commander. The knowledge and skills acquired are reinforced during independent training.

To improve the quality of practical training, military equipment, material support, and simulation tools are used.

Features of the methodology of conducting lessons:

when conducting lectures:

The main efforts should be directed at mastering the theoretical material of the topic. The main purpose of the lecture is to systematise the basis of scientific knowledge and practical experience on the topic, the state and prospects of development of management science, theory and practice of management activities of a military leader, to focus on the most complex and critical issues of the educational material. The lecture should be problem-based, stimulate active cognitive activity of trainees, and promote creative thinking. In order to enhance the cognitive activity of servicemen and to develop their creative thinking, technical teaching aids should be skilfully used during lectures in combination with active forms and methods of lecturing. lessons should be conducted by the method of oral presentation of educational material, with individual questions and educational elements worked out in the form of a dialogue between the teacher and the trainees and by asking them problematic questions.

when conducting group sessions:

the most appropriate form of training is frontal training format (all trainees or a significant part of them, under the supervision of the teacher, perform the same task (act in a certain position) at the same time);

during group sessions, a combination of methods is used - explanatory and lecture (presentation of new educational material, its discussion is organised, and then control of trainees' learning of this material is carried out by means of a questionnaire that helps to consolidate it) and reproductive training method (the main feature of which is the reproduction and repetition of the method of activity on situational tasks of the teacher, including actual combat episodes based on the experience of the war against the Russian Federation. In the course of implementing this method, trainees solve similar tactical tasks, walk-through exercises, assess the situation, make decisions on a similar situation, set tasks for units, etc. The use of this method is the first step in the acquisition of skills and commanding abilities by the trainees).

during group exercises (on the ground):

a problem-based form of training is used with the use of research methodological techniques;

The essence of the research method is to organise the search and creative activity of trainees to solve new problems. For example, in group exercises and tactical training, a complex, non-standard situation is created, the terrain is unfamiliar, the enemy uses unexpected (new) methods of warfare or new weapons. Trainees are put in a situation where they are required to make an unconventional, original decision to fight, to use a new way of using weapons and military equipment, a new way of fighting to counter the enemy. Trainees must solve problematic tasks on their own, without the support of the instructor.

During the lessons, active forms of training should be used, such as situational replay (at each lesson) of possible actions or actions that took place during the war with the Russian Federation.

Group exercises contain an element of transition to practical actions with the division of the group into 2 subgroups. The first subgroup consists of trainees who work as unit commanders and commanders of additional units (tank, grenade launcher, anti-tank, anti-aircraft missile, reconnaissance, etc.). The second subgroup consists of trainees who perform tactical actions in positions in accordance with the organisation and manning of the main combat unit and attached units. After practicing the issues assigned to the training session, the groups are switched. In this type of training, the complexity of the organisation and conduct of combat should be increased by involving teams (trainees) from training groups of other specialisations (branches of the armed forces and special forces).

during practical exercises:

mastery of the theoretical provisions of the topic is organised through the individual performance of specially designed tasks, which contributes to the development of cadets' skills and abilities to apply theoretical provisions in practice. Practical sessions should be aimed at consolidating and deepening the knowledge gained by trainees in lectures and group sessions, as well as during independent work, and developing their skills in solving practical problems.

during independent work:

to work out and master the educational material; consolidate and deepen knowledge, skills and abilities; prepare for the next lessons and assessment activities; form a culture of mental work, independence and initiative in the search, acquisition and enrichment of knowledge in trainees. Independent work should be provided with educational literature, study guides, assignments and methodological recommendations. All teaching and learning materials should have electronic versions. Methodological materials for independent work should provide for the possibility of self-control.

Material and technical support:

Lessons are conducted using the classroom facilities of the Department of Operations Management of Airborne Assault Forces and Marine Infantry Corps - lecture and special classrooms equipped with terrain models, technical training aids, a virtual battlefield environment (VBS) classroom, as well as the field (training ground) training base of the Centre for Educational Process Support of the Military Academy.

Information and methodological support:

1. Combat Manual of the Mechanised and Tank Forces of the Land Forces of the Armed Forces of Ukraine. Part III. Platoon, squad, crew: Command of the Land Forces of the Armed Forces of Ukraine. Kyiv - 2016.
2. Combat Statute of the Mechanised and Tank Forces of the Land Forces of the Armed Forces of Ukraine. Part II. Battalion, company: Command of the Land Forces of the Armed Forces of Ukraine. Kyiv - 2016.
3. Tactics of Marine Corps Units. Study guide - Odesa: Military Academy Publishing House (Odesa), 2019. 289 p.
4. The small unit tactics smartbook, 2nd Rev. Handbook), 2nd Rev. Ed., 2015.
5. Guidelines for Operations in Urbanised Areas - Zh.: Central Operations Centre and the Ministry of Defence of Ukraine together with the Main Training Directorate of the Armed Forces of Ukraine, 2019. 248 p.
6. Guidance for action at night and in conditions of limited vision. -K.: MDU of the Armed Forces of Ukraine, jointly with the Central Military and Logistics Command of the Armed Forces of Ukraine and the NAF, 2019. - 98 p.
7. Course of shooting from small arms and combat vehicles. -K.: General Staff of the Armed Forces of Ukraine, 2018. - 367 p.
8. Order of the Commander-in-Chief of the Armed Forces of Ukraine of 11.09.2020 №140 "On Approval of the Temporary Procedure for the Processing of Operational (Combat) Documents", -K.: General Staff of the Armed Forces of Ukraine, 2020.
9. Information-analytical (reference) materials on the use of military units of the Armed Forces of Ukraine, other military formations and illegal military formations during the anti-terrorist operation in Ukraine. Appendix 1.
10. Guidelines on the use of troops (forces) (to be taken into account when acquiring capabilities by troops (forces) to perform assigned tasks) - K.: General Staff of the Armed Forces of Ukraine. PART I.
11. Experience in the use of the Armed Forces of the leading countries of the world (to be taken into account when acquiring capabilities by troops (forces) to perform assigned tasks) - K.: General Staff of the Armed Forces of Ukraine.
12. Tactical and Technical Characteristics of WME Samples and Tactics of Headquarters Units' Actions on Them (to be taken into account when acquiring capabilities by troops (forces) to perform assigned tasks) - K.: General Staff of the Armed Forces of Ukraine. PART I.
13. Guidelines on the use of troops (forces) (to be taken into account when acquiring capabilities by troops (forces) to perform assigned tasks) - K.: General Staff of the Armed Forces of Ukraine. PART II.
14. Methodological recommendations for the preparation and conduct of counter-ambush actions by units during special operations.
15. Methodological recommendations on the protection of troops and military facilities in permanent deployment points and in areas of assigned tasks.

16. Recommendations for strengthening the protection of military convoys from the use of landmines.
17. Experience in the use of the Armed Forces of the leading countries of the world (to be taken into account when acquiring capabilities by troops (forces) to perform assigned tasks) - K.: General Staff of the Armed Forces of Ukraine. PART III.
18. Information and reference material on the peculiarities of combat operations in the forested area: survival and combat tactics. Combat Training Directorate of the Land Forces Command of the Armed Forces of Ukraine - K.: CSR of the Armed Forces of Ukraine, 2017.
19. Preparation for combat operations in urban areas (manual) - Odesa: Military Academy (Odesa).
20. Methodological manual on the organisation and implementation of protection and defence, daily activities of military units (subunits) of the Armed Forces of Ukraine located in base camps.
21. Information and analytical materials on the use of military units in the Russian-Ukrainian war.
22. Fire control of units: a handbook. -Ukraine: Military Academy, 2020. - 72 p.
23. Methodological materials. Defence in the city (settlement). Land Forces Command, April 2023.
24. Information bulletin. The enemy's book. A collection of recommendations for participants of the Joint Forces Operation. May 2023.

Titles of topics and distribution of training time by type of training

№ n/a	Types of lessons and assessment activities	Number of hours	Of which.		Topic title and learning points
			Contact hours	Independent work	
Topic 1: Combat employment of a Marine platoon.					
1.	Lecture	2	2		Lesson 1: Combat employment of a platoon. 1. Purpose, organisational and staffing structure, weapons and equipment of a marine platoon. 2. Combat capabilities of a marine platoon.
2.	Seminar	2	2		Lesson 2: Combat employment of a platoon. 1. Purpose, organisational structure, weapons and equipment of a marine platoon. 2. Combat capabilities of a marine platoon.
Total for the topic		4	4		
Topic 2. Management of a Marine platoon.					
3.	Lecture	2	2		Lesson 1. Platoon command and control. 1. The sequence and content of the platoon leader's work in preparation for combat, in accordance with the Troop Leading Procedures (TLP). 2. Platoon command and control during combat missions.
4.	Group session	2	2		Lesson 2: Preparing a working map and basic rules for its maintenance. 1. Preparation of the working map for work. 2. Maintaining a working map: basic rules.
5.	Seminar	4	4		Lesson 3. Platoon command and control. 1. Sequence and content of the platoon leader's work in preparation for combat, according to the Troop Leading Procedures (TLP). 2. Platoon command and control during combat missions. 3. Preparation of a working map for work and basic rules for its maintenance.
Total for the topic		8	8		
Topic 3: Marine platoon on the march and in marching guard.					
6.	Lecture	2	2		Lesson 1: The platoon on the march and in marching guard. 1. Place and tasks of the platoon on the march. 2. The sequence and content of the platoon commander's work in preparation for the march, according to the procedure for managing units. 3. Actions of the platoon during the march as part of the main force and in a march security element.
7.	Group session	2	2		Lesson 2: Platoon on the march in special conditions. 1. Features of preparation and conduct of the march at night. 2. Features of preparation and conduct of the march in winter. 3. Features of preparation and conduct of the march in the mountains. 4. Risks affecting the march (urban and wooded areas).
8.	Group session	2	2		Lesson 3: Counter-insurgency actions based on the experience of the Russian-Ukrainian war.

					<ol style="list-style-type: none"> 1. Tactics of enemy units conducting an ambush. 2. Procedure of actions of the unit that was ambushed.
9.	Seminar	4	4		<p>Lesson 4. Platoon on the march and in marching guard.</p> <ol style="list-style-type: none"> 1. Role and tasks of the platoon on the march. 2. The sequence and content of the platoon commander's work in preparation for the march, according to the procedure for managing TLP units 3. Actions of the platoon when marching as part of the main force and in marching guard. 4. The platoon on the march in special conditions. 5. Counter-ambush actions based on the experience of the Russian-Ukrainian war.
10.	Preparation for the TPE	1		1	<p><i>Independent work.</i></p> <ol style="list-style-type: none"> 1. Preparation of radio stations for operation, checking radio data and the signal table with the company commander's data. 2. Study of warning signals, platoon control during actions in marching guard, the procedure for transmitting signals, commands and setting tasks by radio.
11.	Tactical-Drill Exercise	4*	4*		<p>Lesson 5. Platoon marching guard.</p> <ol style="list-style-type: none"> 1. Construction of a platoon column for actions in the main advance guard, methods of inspection of the terrain and local objects. 2. Actions of the platoon in case of an enemy air attack, detection of minefields and contaminated terrain, attempts to block the column by the local population. 3. Platoon actions when meeting a small group of enemy, equal and superior enemy.
12.	Tactical-Drill Exercise	4*	4*		<p>Lesson 6. A platoon on marching guard at night.</p> <ol style="list-style-type: none"> 1. Procedure for preparing equipment and personnel for night operations. 2. The procedure for moving and inspecting the terrain and local objects. 3. Platoon actions when meeting the enemy.
13.	Tactical-Drill Exercise	4*	4*		<p>Lesson 7. Platoon in marching guard.</p> <ol style="list-style-type: none"> 1. Platoon actions when ambushed.
<p>COMPLEX TACTICAL TASK</p> <p>Marine platoon in the main advance guard</p>					
14.	Preparing for a group exercise	1		1	<p>Analysing the task received by the platoon leader and assessing the situation.</p> <ol style="list-style-type: none"> 1. Understand the task and assess the situation. 2. Preparation of a working map, drawing the initial situation.
15.	Group exercise	5	4	1	<p>Lesson 8. Analysing the task, assessing the situation, giving a preliminary combat order, developing a plan.</p> <ol style="list-style-type: none"> 1. Analysis of the received task, assessment of the situation, calculation of time. 2. Giving a preliminary combat order (instructions for preparing for the march). 3. Development of a plan for actions in the main advance guard. <p><i>Independent work.</i></p> <ol style="list-style-type: none"> 1. Determining the tasks of the squad and the means attached. 2. Identification of issues of interaction.
16.	Group exercise	3	2	1	<p>Lesson 9. Completing the formulation of the decision. Reporting the decision to the company commander.</p> <ol style="list-style-type: none"> 1. Completion of the formulation of the decision, registration of the decision on the working card. 2. Reporting the decision to the company commander.
					<p><i>Independent work.</i></p> <ol style="list-style-type: none"> 1. Preparation of a combat order. 2. Preparation for the organisation of interaction, Combat Service Support and management.

					3. Learning the order of route steps.
17.	Group exercise	4	4		Lesson 10. Giving a combat order, organising interaction, command and control and Combat Service Support. 1. Giving a combat order. 2. Organisation of interaction, command and control and Combat Service Support.
18.	Exercise VBS	3		3	Managing a platoon on the march in a virtual battlefield environment (VBS). 1. Build a platoon to operate in the main advance guard, manage platoon actions while inspecting the terrain for local objects along the route, identifying engineering obstacles and contaminated areas. 2. Controlling the platoon's actions during the passage of a settlement. 3. Managing the actions of the platoon when meeting the enemy.
19.	Group exercise	6*	6*		Lesson 11. Managing platoon actions in the main advance guard. 1. Formation of a platoon for actions in the main advance guard, management of platoon actions during the inspection of the terrain of local objects on the route of movement, detection of engineering obstacles and contaminated areas of the terrain. 2. Controlling the platoon's actions during the passage of a settlement. 3. Controlling the actions of the platoon when meeting the enemy.
20.	Tactical flyer	2	2		Lesson 12. Platoon in the main advance guard. 1. Decision-making and mapping. 2. Platoon command and control during actions in the main outpost (solving situational tasks).
Total for the topic		47	40	7	
Topic 4. Marine platoon in place and on guard duty.					
21.	Lecture	2	2		Lesson 1: Platoon in place. 1. Platoon positioning on the ground, taking into account the experience of the Russian-Ukrainian war. 2. Sequence and content of the platoon leader's work during the organisation of the location on the ground, according to the Troop Leading Procedures (TLP).
22.	Seminar	2	2		Lesson 2: The platoon in the field. 1. Platoon positioning on the ground, taking into account the experience of the Russian-Ukrainian war. 2. Sequence and content of the platoon leader's work during the organisation of the location on the ground, according to the Troop Leading Procedures (TLP).
23.	Preparation for the TLP	1		1	<i>Individual work.</i> 1. Preparing the radio station for operation, checking the radio data and the signal table with the platoon leader's data. 2. Study of warning signals and platoon control when located on the ground, the procedure for transmitting signals, commands and setting tasks by radio.
24.	Tactical-Drill Exercise	4*	4*		Lesson 3: Platoon in place at night, taking into account the experience of the Russian-Ukrainian war. 1. Preparation of shelters for personnel and equipment, the procedure for their camouflage, implementation of measures to protect against high-precision enemy weapons and unmanned aerial vehicles. 2. Organisation of security and surveillance. 3. Actions of the platoon on warning signals and in the event of an attack by an enemy sabotage and reconnaissance group, the use of UAVs and barrage munitions by the enemy.
25.	Lecture	2	2		Lesson 4. Platoon in sentry duty. 1. A platoon in sentry duty. 2. The sequence and content of the work of the platoon leader assigned to the sentry guard, in accordance with the Troop Leading Procedures (TLP).

26.	Seminar	2	2		Lesson 5. The platoon in sentry duty. 1. A platoon in sentry duty. 2. Sequence and content of the work of the platoon leader assigned to the sentry guard, according to the TLP procedure.
27.	Tactical-Drill Exercise	4*	4*		Lesson 6. Platoon in a sentry post. 1. Occupation of a certain position by the platoon, organisation of the fire and observation system, equipment of the outpost position. 2. Actions of the platoon in the detection of small groups of the enemy and the attack of superior enemy forces.
Total for the topic		17	16	1	
Topic 5. Marine platoon in offensive combat.					
28.	Lecture	2	2		Lesson 1: The platoon in offensive combat, taking into account the experience of the Russian-Ukrainian war. 1. General provisions of the offensive. 2. The sequence and content of the platoon leader's work in preparation for an offensive battle, in accordance with the Troop Leading Procedures (TLP). 3. Conducting offensive combat by a platoon on the move and in direct contact with the enemy.
29.	Group exercise	2	2		Lesson 2: Peculiarities of preparing and conducting an offensive battle by a platoon in special conditions, taking into account the experience of modern armed conflicts. 1. Features of preparation and conduct of offensive combat at night. 2. Features of preparation and conduct of an offensive battle in a settlement. 3. Features of preparation and conduct of offensive combat in the forest. 4. Features of preparation and conduct of offensive combat in the mountains.
30.	Seminar	4	4		Lesson v3: Platoon in offensive combat, taking into account the experience of the Russian-Ukrainian war. 1. General provisions of the offensive. 2. The sequence and content of the platoon leader's work in preparation for offensive combat, according to the procedure (TLP). 3. Conducting the platoon offensive battle on the move and in direct contact with the enemy. 4. Peculiarities of preparing and conducting offensive combat by a platoon in special conditions.
31.	Group exercise	2	2		Lesson 4. Peculiarities of preparing and conducting an offensive battle by a platoon with the forcing of a water obstacle. 1. Characteristics of water obstacles. 2. The concept of forcing and crossing, methods of forcing, types of crossings and their characteristics. 3. The sequence and content of the platoon leader's work in preparing for a waterborne offensive, in accordance with the Troop Leading Procedures (TLP). 4. The procedure for forcing a water barrier as part of the main outpost and as part of the main force.
32.	Seminar	2	2		Lesson 5. Peculiarities of preparing and conducting an offensive battle by a platoon with the forcing of a water obstacle. 1. Characteristics of water obstacles. 2. The concept of forcing and crossing, methods of forcing, types of crossings and their characteristics. 3. The sequence and content of the platoon leader's work in preparing for a waterborne offensive, in accordance with the Troop Leading Procedures (TLP). 4. The procedure for forcing a water barrier as part of the main outpost and as part of the main force.
33.	Preparation for the TLP	1		1	<i>Independent work.</i> 1. Preparing the radio station for operation, checking the radio data and the signal table with the platoon commander's data. 2. Study of warning signals and platoon control in offensive combat, the order of signal transmission.
34.	Tactical-Drill Exercise	4*	4*		Lesson 6. Platoon actions during an attack on an enemy defending on the move. 1. Advancement of the platoon to the line of attack on combat vehicles, deployment in combat order, haste and advancement to the front line.

					2. Overcoming minefields along the prepared passage. 3. Destruction of the enemy in the stronghold, seizure of the object of attack. 4. Repulsing a counterattack and pursuing a retreating enemy.
35.	Tactical-Drill Exercise	4*	4*		Lesson 7. Platoon actions during an attack from a position of direct contact with the enemy at night. 1. Regrouping, taking the initial position for the attack and preparing for the attack. 2. Transition to the attack, overcoming minefields along the made passage. 3. Destruction of the enemy on the front line of his defence, seizure of the object of attack and continuation of the offensive.
36.	Tactical-Drill Exercise	4*	4*		Lesson 8. Actions of a platoon during an offensive in a city (settlement), taking into account the experience of the Russian-Ukrainian war. 1. Movement to the object of attack in the city (settlement) under the cover of fire of combat vehicles. 2. Actions as part of an assault group during the attack and destruction of the enemy in the building.
COMPLEX TACTICAL TASK					
Marine platoon attack on a defending enemy on the move					
37.	Preparing for a group exercise	1		1	Analysing the task received by the platoon commander and assessing the situation. 1. Understand the task and assess the situation. 2. Preparation of a working map, drawing the initial situation.
38.	Group exercise	5	4	1	Lesson 9. Analysing the task, assessing the situation, giving a preliminary combat order, developing a plan. Completion of the formulation of the decision. Reporting the decision to the company commander. 1. Analysis of the received task, assessment of the situation, calculation of time. 2. Giving a preliminary combat order (instructions for preparing for an offensive battle). 3. Developing a plan for an offensive on the move. 4. Completion of the formulation of the decision, execution of the decision on the working map. Reporting the decision to the company commander. <i>Independent work.</i> 1. Preparation of a combat order. 2. Preparation of the organisation of interaction, Combat Service Support and management.
39.	Group exercise	4*	4*		Lesson 10. Conducting reconnaissance, giving a combat order, organising interaction, command and control and Combat Service Support. 1. Conducting a reconnaissance. 2. Giving a combat order. 3. Organisation of interaction, management and Combat Service Support.
40.	Training VBS	3		3	Managing a platoon in offensive combat in a virtual battlefield (VBS). 1. Check the platoon's readiness for combat. 2. Manage the platoon during the advance and deployment in combat order, during the attack of the front edge of enemy defence and the capture of the object of attack. 3. Platoon command and control in combat in the depths of enemy defence, repelling a counterattack, and pursuit.
41.	Group exercise	6*	6*		Lesson 11. Platoon command and control in offensive combat. 1. Checking the platoon's readiness for combat. 2. Managing the platoon during the advance and deployment in combat order, during the attack of the front edge of enemy defence and the capture of the object of attack. 3. Platoon control during combat in the depths of enemy defence, repelling counterattacks, and pursuit.
42.	Tactical flying	2	2		Lesson 12. Platoon in offensive combat.

					1. Decision-making and mapping. 2. Platoon command and control in the offensive (solving situational tasks).
Total for the topic		46	40	6	
Topic 6: Marine platoon in defensive combat.					
43.	Lecture	2	2		Lesson 1: The platoon in defensive combat, taking into account the experience of the Russian-Ukrainian war. 1. General provisions of defence. 2. The sequence and content of the platoon leader's work in preparation for defensive combat, according to the Troop Leading Procedures (TLP). 3. Platoon conduct of defensive combat.
44.	Group exercise	2	2		Lesson 2: Peculiarities of preparation and conduct of defensive combat in special conditions, taking into account the experience of modern armed conflicts. 1. Features of preparation and conduct of defensive combat at night. 2. Features of preparation and conduct of defensive combat in a settlement. 3. Features of preparation and conduct of defensive combat in the forest. 4. Features of preparation and conduct of defensive combat in the mountains.
45.	Seminar	4	4		Lesson 3: Platoon in defensive combat based on the experience of the Russian-Ukrainian war. 1. General provisions of defence. 2. The sequence and content of the platoon leader's work in preparation for defensive combat, according to the Troop Leading Procedures (TLP). 3. Platoon conduct of defensive combat. 4. Peculiarities of preparing and conducting defensive combat in special conditions.
46.	Group exercise	2	2		Lesson 4. Platoon in defensive combat. 1. Platoon in combat guard. 2. A platoon in a fire ambush. 3. Platoon in an armoured group. 4. A platoon withdrawing from combat and retreating.
47.	Seminar	2	2		Lesson 5. Platoon in defensive combat. 1. Platoon in combat guard. 2. A platoon in a fire ambush. 3. Platoon in an armoured group. 4. A platoon withdrawing from combat and retreating.
48.	Preparation for the TPE	1		1	<i>Independent work.</i> 1. Preparing the radio station for operation, checking the radio data and the signal table with the platoon leader's data. 2. Study of warning signals and platoon control in defensive combat, the procedure for transmitting signals and commands by radio.
49.	Tactical-Drill Exercise	4*	4*		Lesson 6. Platoon transition to defence in the absence of a collision with the enemy and defensive combat. 1. Occupation of a stronghold by the platoon, establishment of combat order and fire system, organisation of observation and engineering equipment. 2. Platoon actions with the start of fire preparation and when the enemy goes on the offensive. 3. Manoeuvre with fire and squads to repel an enemy attack and bypass the platoon's stronghold.
50.	Tactical-Drill Exercise	4*	4*		Lesson 7. A platoon in a defensive battle at night. 1. Preparing a platoon for defensive combat at night. 2. Observation of the enemy with the use of night vision devices and lighting equipment, destruction of the attacking enemy.

					3. Platoon actions when the enemy bypasses a stronghold.
51.	Tactical-Drill Exercise	6*	6*		<p>Lesson 8. Platoon's transition to defence in direct contact with the enemy in a populated area. Defensive combat (based on the experience of the Russian-Ukrainian war.</p> <p>1. Capture of a building (advantageous position) by a platoon, preparation for a circular defence.</p> <p>2. Destruction of the enemy on the outskirts of the BOP.</p> <p>3. Defeat the enemy trying to capture the building. Conducting a defensive battle for a building in conditions of complete encirclement.</p> <p>4. Resumption of defence formation after repulsing an attack on the BOP.</p>
COMPLEX TACTICAL TASK					
Transition of a marine platoon to defence in the absence of a collision with the enemy and conduct of defensive combat					
52.	Preparing for a group exercise	1		1	<p>Analysing the task received by the platoon leader and assessing the situation.</p> <p>1. Understand the task and assess the situation.</p> <p>2. Preparation of a working map, drawing the initial situation.</p>
53.	Group exercise	5	4	1	<p>Lesson 9. Analysing the task, assessing the situation, giving a preliminary combat order, developing a plan. Completion of the formulation of the decision. Reporting the decision to the company commander.</p> <p>1. Analysis of the task, assessment of the situation, calculation of time.</p> <p>2. Giving a preliminary combat order (instructions for preparing for a defensive battle).</p> <p>3. Development of a plan for a defensive battle.</p> <p>4. Completion of the formulation of the decision, execution of the decision on the working map. Reporting the decision to the company commander.</p> <p><i>Independent work.</i></p> <p>1. Preparation of a combat order.</p> <p>2. Preparation for the organisation of interaction, Combat Service Support and management.</p>
54.	Group exercise	4*	4*		<p>Lesson 10. Conducting reconnaissance, giving a combat order, occupying a stronghold, organising interaction, command and control and Combat Service Support.</p> <p>1. Conducting a reconnaissance.</p> <p>2. Giving a combat order.</p> <p>3. Platoon occupation of a stronghold.</p> <p>4. Organisation of interaction, management and Combat Service Support.</p> <p>5. Drawing up a map of the stronghold.</p>
55.	Training VBS	3		3	<p>Managing a platoon in defensive combat in a virtual battlefield (VBS).</p> <p>1. Manage the platoon with the beginning of live-fire training, repelling the enemy attack.</p> <p>2. Platoon command and control during the destruction of the enemy, bypassing the platoon's stronghold.</p> <p>3. Managing a platoon when leaving the battle and retreating.</p>
56.	Group exercise	4*	4*		<p>Lesson 11. Platoon command and control in defensive combat.</p> <p>1. Management of the platoon with the beginning of live-fire training, repulsion of the enemy attack.</p> <p>2. Management of the platoon in the destruction of the enemy, bypassing the platoon's stronghold.</p> <p>3. Platoon command and control during withdrawal from combat and retreat.</p>
57.	Tactical flyer	2	2		<p>Lesson 12. Platoon in defensive combat.</p> <p>1. Decision-making and mapping.</p> <p>2. Platoon command and control in defensive combat (solving situational tasks).</p>
Total for the topic		46	40	6	
Topic 7. Preparing a Marine platoon for amphibious operations.					

58.	Lecture	2	2		Lesson 1: Preparation of a Marine platoon for amphibious assault operations. 1. General provisions of the amphibious landing. 2. Preparing a platoon for amphibious operations. 3. Landing of amphibious assault on ships.
59.	Seminar	2	2		Lesson 2: Preparing a Marine platoon for amphibious assault. 1. General provisions of the amphibious landing. 2. Preparing a platoon for amphibious operations. 3. Landing on a ship. Crossing the sea.
Total for the topic		4	4		
Topic 8: Marine platoon in offensive combat during amphibious landings.					
60.	Lecture	2	2		Lesson 1: A Marine platoon in offensive combat during a landing. 1. The battle for the landing. 2. Platoon combat operations on the beach. 3. Amphibious landing in special conditions.
61.	Seminar	4	4		Lesson 2: Marine platoon in offensive combat during amphibious assault. 1. The battle for the landing. 2. Platoon combat operations on the beach. 3. Amphibious landing in special conditions. 4. Return landing of amphibious units.
62.	Preparation for the TCD	1		1	<i>Independent work.</i> 1. Preparing the radio station for operation, checking the radio data and the signal table with the platoon commander's data. 2. Study of warning signals and platoon control during landing and capture of an object behind enemy lines, the procedure for transmitting signals, commands and setting tasks by radio.
63.	Tactical-Drill Exercise	4*	4*		Lesson 3: Actions of a marine platoon in an offensive battle during a landing. 1. Landing from amphibious vehicles on the shore. Moving to the line of attack with overcoming anti-landing, minefields and natural obstacles. Hastening and deployment in combat order. 2. Attacking the front line of defence, destroying enemy manpower and firepower, and seizing the object of attack. 3. Development of an offensive in depth. Repulsing the enemy's counterattack. Movement of the platoon to the assembly point after completion of the task.
64.	Tactical-Drill Exercise	4*	4*		Lesson 4. Actions of a platoon of Marine Infantry Corps during landing as part of an airborne assault group at night. 1. Landing from fast amphibious vehicles, deployment in combat order, conducting assault operations. 2. Attack, destruction of the enemy on the move. Capture of a favourable position. 3. Conducting combat to cover the actions of barrier groups, navigation and hydrographic support and correction posts. Ensuring the landing of the main landing force.
COMPLEX TACTICAL TASK					
A marine platoon in offensive combat during an amphibious landing					
65.	Preparing for a group exercise	1		1	Analysing the task received by the platoon leader and assessing the situation. 1. Understand the task and assess the situation. 2. Preparation of a working map, drawing the initial situation.
66.	Group exercise	5	4	1	Lesson 5. Analysing the task, assessing the situation, giving a preliminary combat order, developing a plan. 1. Analysis of the task, assessment of the situation, calculation of time.

					2. Giving a preliminary combat order (instructions for preparing for the amphibious landing). 3. Development of a plan for actions in the amphibious assault. <i>Independent work.</i> 1. Determining the tasks of the department and the means attached. 2. Identification of issues of interaction.
67.	Group exercise	3	2	1	Lesson 6. Completing the formulation of the decision. Reporting the decision to the company commander. 1. Completion of the formulation of the decision, registration of the decision on the working card. 2. Reporting the decision to the company commander. <i>Independent work.</i> 1. Preparation of a combat order. 2. Preparation for the organisation of interaction, Combat Service Support and management.
68.	Group exercise	4	4		Lesson 7. Giving a combat order, organising interaction, command and control and Combat Service Support. 1. Giving a combat order. 2. Organisation of interaction, command and control and Combat Service Support.
69.	Training VBS	3		3	Platoon command and control in an offensive amphibious landing in a virtual battlefield environment (VBS). 1. Manage the actions of the platoon after disembarkation from ships. 2. Managing the actions of the platoon during the attack, capture and destruction of an enemy object.
70.	Group exercise	6*	6*		Lesson 8. Commanding a Marine platoon in an offensive battle during a landing. 1. Landing from amphibious vehicles on the shore. Moving to the line of attack with overcoming anti-landing, minefields and natural obstacles. Hastening and deployment in combat order. 2. Attacking the front line of defence, destroying enemy manpower and firepower, and seizing the object of attack. 3. Development of an offensive in depth. Repulsing the enemy's counterattack. Moving the platoon to the assembly point after completing the task.
71.	Tactical flyer	2	2		Lesson 9. Marine platoon in offensive combat during amphibious assault. 1. Decision-making and mapping. 2. Management of the platoon during the landing and capture of the object of attack (solving situational tasks).
Total for the topic		39	32	7	
Topic 9: Amphibious assault platoon of a marine company during amphibious assault operations.					
72.	Lecture	2	2		Lesson 1: The amphibious assault platoon of a marine company during amphibious assault operations. 1. General provisions of amphibious assault operations. 2. Sequence and content of the platoon leader's work in preparation for amphibious assault operations, according to the procedure (TLP). 3. Conducting airborne assault operations.
73.	Seminar	4	4		Lesson 2: An amphibious assault platoon of a marine company during amphibious assault operations. 1. General provisions of airborne assault operations. 2. Sequence and content of the platoon leader's work in preparation for amphibious assault operations, according to the procedure (TLP). 3. Conducting airborne assault operations.
74.	Preparation for the TLP	1		1	<i>Independent work.</i> 1. Preparing the radio station for operation, checking the radio data and the signal table with the platoon commander's data. 2. Study of warning signals and platoon control during airborne assault operations, the order of command transmission.
75.	Tactical-Drill Exercise	4*	4*		Lesson 3: Airborne assault platoon during airborne assault operations. 1. Disembarkation of personnel from helicopters, movement to the object of attack, deployment in combat order.

					2. Attack, capture and destruction of an enemy object. 3. Returning to the assembly point, boarding the helicopters.
76.	Tactical-Drill Exercise	4*	4*		Lesson 4. Airborne assault platoon during airborne assault operations at night. 1. Disembarkation of personnel from helicopters, movement to the object of attack, deployment in combat order. 2. Attack, capture and destruction of an enemy object. 3. Returning to the assembly point, boarding the helicopters.
COMPLEX TACTICAL TASK An amphibious assault platoon of a marine company during amphibious assault operations					
77.	Preparing for a group exercise	1		1	Analysing the task received by the platoon leader and assessing the situation. 1. Understand the task and assess the situation. 2. Preparation of a working map, drawing the initial situation.
78.	Group exercise	5	4	1	Lesson 5. Analysing the task, assessing the situation, giving a preliminary combat order, developing a plan. 1. Analysis of the task, assessment of the situation, calculation of time. 2. Giving a preliminary combat order (instructions for preparing for airborne assault operations). 3. Development of a plan for conducting airborne assault operations. <i>Independent work.</i> 1. Determining the tasks of the squad and the means attached. 2. Identification of issues of interaction.
79.	Group exercise	3	2	1	Lesson 6. Completing the formulation of the decision. Reporting the decision to the company commander. 1. Completion of the formulation of the decision, registration of the decision on the working card. 2. Reporting the decision to the company commander. <i>Independent work.</i> 1. Preparation of a combat order. 2. Preparation for the organisation of interaction, Combat Service Support and management.
80.	Group exercise	4	4		Lesson 7. Giving a combat order, organising interaction, command and control and Combat Service Support. 1. Giving a combat order. 2. Organisation of interaction, command and control and Combat Service Support.
81.	Group exercise	4*	4*		Lesson 8. Managing the actions of an air assault platoon in an airborne assault operation. 1. Management of the platoon's actions after disembarkation of personnel from helicopters, advancement to the object of attack, deployment in combat order. 2. Controlling the platoon's actions during the attack, capture and destruction of the enemy's object, reaching the assembly point and boarding the helicopters.
82.	Tactical flying	2	2		Lesson 9. Airborne assault platoon of a marine company during amphibious assault operations. 1. Decision-making and mapping. 2. Management of the platoon during airborne assault operations (solving situational tasks).
Total for the topic		34	30	4	
Topic 10. A platoon of Marine Infantry Corps during raid operations.					
83.	Lecture	2	2		Lesson 1: Marine platoon in raid operations. 1. General provisions of raid operations.

					2. Sequence and content of the platoon leader's work in preparation for raid operations, in accordance with the Troop Leading Procedures (TLP). 3. Platoon actions in the raid.
84.	Seminar	4	4		Lesson 2: Marine platoon in raid operations. 1. General provisions of raid operations. 2. Sequence and content of the platoon leader's work in preparation for raid operations, in accordance with the Troop Leading Procedures (TLP). 3. Platoon actions in the raid.
85.	Preparation for the TLP	1		1	<i>Independent work.</i> 1. Preparation of the radio station for operation, checking radio data and the signal table with the platoon commander's data. 2. Study of warning signals and platoon control during raid operations, the procedure for transmitting signals, commands and setting tasks by radio.
86.	Tactical-Drill Exercise	6*	6*		Lesson 3: The platoon in combat reconnaissance. 1. Formation of a platoon for actions in combat reconnaissance, advancement and conduct of reconnaissance, reporting of reconnaissance results. 2. Platoon actions during the capture and destruction of an important enemy object.
COMPLEX TACTICAL TASK					
A marine platoon in combat reconnaissance patrol during raid operations					
87.	Preparation for the CTM	1		1	Analysing the task received by the platoon commander and assessing the situation. 1. Understand the task and assess the situation. 2. Preparation of a working map, drawing the initial situation.
88.	Group exercise	5	4	1	Lesson 4. Analysing the task, assessing the situation, giving a preliminary combat order, developing a plan. 1. Analysis of the task, assessment of the situation, calculation of time. 2. Giving a preliminary combat order (instructions for preparing for actions in combat reconnaissance vision). 3. Development of a plan for actions in combat reconnaissance vision during raid operations. <i>Independent work.</i> 1. Determining the tasks of the squad and the means attached to it. 2. Identification of interaction issues.
89.	Group exercise	4	4	1	Lesson 5. Completing the formulation of the decision. Reporting the decision to the company commander. 1. Completion of the formulation of the decision, registration of the decision on the working card. 2. Reporting the decision to the company commander. <i>Independent work.</i> 1. Preparation of a combat order. 2. Preparation for the organisation of interaction, Combat Service Support and management.
90.	Group exercise	4	4		Lesson 6. Giving a combat order, organising interaction, command and control and Combat Service Support. 1. Giving a combat order. 2. Organisation of interaction, command and control and Combat Service Support.
91.	Exercise VBS	3		3	Management of a combat reconnaissance patrol in a virtual battlefield environment (VBS). 1. Formation of a platoon for operations in a combat reconnaissance patrol. 2. Managing the platoon's actions during reconnaissance. 3. Managing platoon actions during the capture and destruction of an important enemy object.

92.	Group exercise	6*	6*		Lesson 7. Controlling platoon actions in combat reconnaissance observation during raid operations. 1. Formation of a platoon for actions in a combat reconnaissance scope. 2. Management of platoon actions during reconnaissance. 3. Managing the platoon's actions during the capture and destruction of an important enemy object.
93.	Tactical flyer	2	2		Lesson 8. A marine platoon in combat reconnaissance patrol during raid operations. 1. Decision-making and mapping. 2. Controlling a platoon in combat reconnaissance patrol during raid operations (solving situational tasks).
Total for the topic		39	32	7	
Topic 11: Marine platoon in the performance of tasks in stabilisation operations.					
94.	Lecture	2	2		Lesson 1: A platoon performing tasks in stabilisation operations, taking into account the experience of the Russian-Ukrainian war. 1. General provisions of stabilisation actions. 2. Features of preparation and execution of tasks by a platoon during service at a checkpoint. 3. Peculiarities of preparation and performance of tasks by a platoon during convoy escort.
95.	Group exercise	2	2		Lesson 2: Marine platoon in search and attack operations. The sequence and content of the platoon leader's work in preparation for search and attack operations, according to the Troop Leading Procedures (TLP). 2. conducting search and strike operations.
96.	Seminar	4	4		Lesson 3: Marine platoon in stabilisation operations based on the experience of the Russian-Ukrainian war. 1. General provisions of stabilisation operations. 2. Peculiarities of preparation and execution of tasks by a platoon during service at a checkpoint. 3. Peculiarities of preparation and performance of tasks by a platoon during convoy escort. 4. Peculiarities of preparation and conduct of search and strike operations.
97.	Preparation for SAR	1		1	<i>Independent work.</i> 1. Preparing the radio station for operation, checking the radio data and the signal table with the platoon commander's data. 2. Study of warning signals and platoon control during the performance of tasks at the checkpoint, the procedure for transmitting signals, commands and setting tasks by radio.
98.	Tactical-Drill Exercise	6*	6*		Lesson 4. Platoon performing tasks at a checkpoint, taking into account the experience of the Russian-Ukrainian war. 1. Organisation of observation and fire systems. 2. The procedure for inspecting people and vehicles. 3. Procedure for repelling an enemy attack.
99.	Tactical-Drill Exercise	6*	6*		Lesson 5. A platoon escorting convoys, taking into account the experience of the Russian-Ukrainian war. 1. Formation of marching order, organisation of observation and fire system. 2. Actions of the platoon when trying to block the column. 3. Platoon actions when ambushed.
100.	Tactical-Drill Exercise	6*	6*		Lesson 6. A platoon conducting search-and-attack operations, taking into account the experience of the Russian-Ukrainian war. 1. Conducting search operations. 2. Destruction of the detected enemy.

10	Training VBS	4		4	Managing a platoon while on duty at a checkpoint in a virtual battlefield (VBS). 1. Manage the actions of the platoon while operating at a checkpoint. 2. Managing the actions of the platoon during an enemy attack. <i>Independent work.</i> 1. Fire control of an attached artillery platoon (battery) during service at a checkpoint.
10	Practical session	6*	6*		Lesson 7. Fire control of an attached artillery unit in stabilisation operations. 1. Fire control of an attached artillery platoon (battery) during service at a checkpoint.
Total for the topic		37	32	5	
Topic 12: Methodological training of a marine unit commander.					
103	Independent work	1		1	Preparation for practical training. 1. Study the standard of training "Platoon in the main advance guard". 2. Developing a plan for a tactical and formation exercise with a platoon to develop the standard of training "Platoon in the main outpost".
104	Practical session	4*	4*		Lesson 1: Methods of conducting a TSS with a platoon to develop the standard of training "Platoon in the main advance guard". 1. Methods of conducting the introductory part of the lesson. 2. Methods of conducting the main part of the lesson. 3. Methods of conducting the final part of the lesson.
105	Independent work	1		1	Preparation for the practical lesson. 1. Study of the standard of training "Platoon in the offensive on the move". 2. Develop a plan for conducting a tactical formation exercise with a platoon to master the standard "Platoon in the Advance on the Move".
106	Practical session	6*	6*		Lesson 2. Methods of conducting a TSS with a platoon to develop the training standard "Platoon in the offensive on the move". 1. Methods of conducting the introductory part of the lesson. 2. Methods of conducting the main part of the lesson. 3. Methods of conducting the final part of the lesson.
107	Independent work	1		1	Preparation for the practical lesson. 1. Study of the training standard "Platoon in defensive combat in urban areas". 2. Developing a plan for a tactical formation exercise with a platoon to develop the training standard "Platoon in defensive combat in urban areas".
108	Practical session	6*	6*		Lesson 3. Methods of conducting a tactical formation exercise with a platoon to develop the training standard "Platoon in defensive combat in urban areas". 1. Methods of conducting the introductory part of the exercise. 2. Methods of conducting the main part of the lesson. 3. Methods of conducting the final part of the lesson.
109	Independent work	1		1	Preparation for the practical lesson. 1. Study of the training standard "Platoon in the offensive when capturing (destroying) an object behind enemy lines". 2. Developing a plan for conducting a tactical formation exercise with a squad to develop the training standard "Platoon in the offensive when capturing (destroying) an object behind enemy lines".
110	Practical session	4*	4*		Lesson 4. Methods of conducting a tactical and formation exercise with a platoon to develop the training standard "Platoon in an offensive battle during a landing by sea". 1. Methods of conducting the introductory part of the exercise. 2. Methods of conducting the main part of the lesson.

					3. Methods of conducting the final part of the lesson.
111	Lecture	2	2		Lesson 5. Preparation and methodology for conducting combat firing of units. 1. Preparation of combat firing squads. 2. Conducting combat firing of squads. 3. Evaluation of the squad's live fire.
112	Practical session	3	2	1	Lesson 6. Development of a plan for the combat firing of a squad "Squad in defensive combat". 1. Development of the textual and graphic part of the plan of combat firing of the squad. 2. Development of the target situation scheme, the target situation control scheme. 3. Study of the methodology for conducting combat firing of the squad "Squad in defensive combat". <i>Independent work.</i> 1. Development of the textual and graphic part of the plan of combat firing of the squad. 2. Development of a target situation scheme, a target situation control scheme. 3. Study of the methodology for conducting combat firing of the squad "Squad in defensive combat".
113	Practical session	6*	6*		Lesson 7. Combat firing of a squad "Squad in defensive combat". (training questions according to the plan of live fire).
114	Practical session	3	2	1	Lesson 8. Developing a plan for a tactical and formation exercise with a platoon to develop the training standard "Platoon in assault operations". 1. Study of the training standard "Platoon in assault operations". 2. Development of a plan for conducting TCD with a unit to develop the standard of training "Platoon during assault operations" <i>Independent work.</i> 3. Methods of conducting a TCD with a platoon to develop the standard "Platoon in assault operations".
115	Practical session	6*	6*		Lesson 9. Methods of conducting a tactical formation exercise with a platoon to develop the training standard "Platoon in assault operations". 1. Methods of conducting the introductory part of the exercise. 2. Methods of conducting the main part of the lesson. 3. Methods of conducting the final part of the lesson.
116	Lecture	2	2		Lesson 10. Preparation and methodology for conducting platoon combat firing. 1. Preparation of platoon combat firing. 2. Conducting platoon combat firing. 3. Evaluation of platoon live fire.
117	Practical session	3	2	1	Lesson 11. Developing a plan for a platoon combat firing exercise "Platoon in offensive combat". 1. Development of the textual and graphic part of the platoon combat firing plan. 2. Development of the target situation scheme, the target situation control scheme. <i>Independent work.</i> 1. Methods of conducting platoon combat firing "Platoon in offensive combat".
118	Practical session	6*	6*		Lesson 12. Platoon combat firing "Platoon in offensive combat". (training questions according to the plan for conducting live fire)
Total for the topic		55	48	7	
Control measures		12	6	6	Examination
Total for the educational component		390	322	58	

BC 2. FIREARMS AND WEAPONS TRAINING

name of the component

General purpose of the discipline:

The main purpose of teaching the discipline "Firearms and Weapons Training" is:

training of a specialist in military management of the tactical level, able to competently and fully use the capabilities of weapons of combat vehicles, small arms and grenade launchers, who knows the structure and rules of operation, knows how to prepare it for firing and hit targets with fire.

As a result of studying the discipline, trainees should:

know

the structure, tactical and technical characteristics of weapons and military equipment of airborne assault (airborne, parachute, marine) units, rules of fire from standard weapons

requirements of the Small Arms and Combat Vehicle Armament Course for the organisation of Firearms and Weapons Training

technical characteristics and operating procedures for standard small arms

requirements of guiding documents for the storage and operation of regular small arms

rules for the preparation and maintenance of technical documentation of the unit

technical characteristics and operating procedures for weapons and military equipment of NATO and enemy armies

be able to:

organise and carry out the proper operation, maintenance, storage and preparation of small arms for combat employment

bring small arms to normal combat, perform training firing exercises with standard weapons and monitor compliance with safety measures during lessons, firing, exercises

to organise and carry out the correct operation, maintenance, storage and preparation of regular small arms for combat employment

to identify and eliminate the main malfunctions of standard small arms

to properly operate, maintain, store and prepare samples of weapons and military equipment of NATO and enemy armies based on knowledge of their basic technical characteristics.

Organisational and methodological instructions:

Lessons on the discipline "Firearms and Weapons Training" are conducted as part of a training platoon in practical sessions. Training sessions are held at firing ranges and sites. Before conducting practical exercises, it is mandatory to study safety measures and clarify (refine) them before the start of the exercise. Personnel arrive at practical training in full field equipment with weapons.

Military equipment and material support are used to improve the quality of practical training.

Specifics of the training methodology:

During practical training, trainees learn the purpose, combat properties and structure of weapons, ammunition, aiming and observation devices; the basics and rules of shooting.

During Firearms and Weapons Training sessions, trainees develop and improve their skills in handling weapons (firing techniques), reconnaissance of targets by observation, determination of their range and targeting.

When performing firing exercises, the training platoon is divided into subgroups and the training is conducted in groups of 12-15 people under the guidance of instructors. During these exercises, trainees are required to perform firing exercises with all types of weapons available to the platoon, and the following issues are to be practised on the training grounds: training in preparation for firing from various positions (standing, kneeling, lying on the stomach, on the side, on the back, on squatting), training in binocular aiming, training in rapid reloading of weapons, training in incomplete disassembly and assembly of weapons, elimination of delays in firing, loading the magazine, training in throwing hand grenades from behind cover with the right and left hands, training in determining initial firing positions and solving fire missions. During the firing exercises, elements of psychological impact on the trainees should be used, such as firing blank ammunition behind the firing person and using explosive packages at safe distances.

Logistics:

Small arms (AKS-74, AK-TK-8, M4A1, C7A1, Grot, MG 42/59, M240, M249)

Grenade launchers (GP-25, AGS-17, UAG-40, SPG-9M, Carl Gustaf, Panzerfaust 3)

Large-calibre machine guns (DShK-TK, NSV, Browning)

Anti-tank systems (9K111, Stugna-P, Corsair, Nlaw)

Equipment (BTR-80, BMP-1, BMP-2)

Information and methodological support:

1. Methodological manual on fire training for the handling and use of small arms, approved by the NGC-GC
2. Methodology of fire training of mechanised units - Kyiv: Military Publishing House, 2009.
3. Combat Statute of the Land Forces of the Armed Forces of Ukraine. Part III (platoon, squad, tank crew) - Kyiv: Military Publishing House, 2016 (Order of the Commander of the Armed Forces of Ukraine of 29 December 2010, No. 575).
4. Collection of Standards on Combat Training of the Land Forces of the Armed Forces of Ukraine - Kyiv: Military Publishing House, 2005.
5. Rifle training manual. 5.45 mm Kalashnikov rifles (AK-74, AKS-74, AK-74N, AKS-74N) and 5.45 mm Kalashnikov machine guns (RPK-74, RPK-74, RPK-74N, RPK-74N) - Kyiv: Military Publishing House, 2006.
6. Manual on marksmanship. 7.62 mm Kalashnikov machine guns PC, PCM, PCS, PCMS, PCB, PCMB, PKT - Kyiv: Military Publishing House, 2005.
7. Training manual "12.7 mm heavy machine guns DShKM and NSV. Part 1, 2. 12.7 mm heavy machine gun NSV" - Lviv. NASV, 2020.
8. Guidelines on marksmanship. Night Sights for Small Arms and Hand Grenade Launchers - Kyiv: Military Publishing House, 2006.
9. Rifle training manual. Hand Grenades - Kyiv: Military Publishing House, 2006.
10. Manual on marksmanship of the 40-mm GP-25 under-barrel grenade launcher. VKDP 7-00(01).01.
11. Operation Manual for the ARCHER TSA-9/75-640 thermal imaging sight AJOA.201219.002 KE, 2016.
12. Guidelines "Actions at Night and in Conditions of Limited Vision" - Kyiv, 2019.
13. Guidelines. "Tactics of using large-calibre machine guns". VP 7-020(03).01.
14. Guidelines. "Organisation of management and improvement of the fire system in modern conditions". BII 7(3)-(01-05)03.01.

15. Guidelines. "For unit commanders on the organisation of counter sniper activities on the contact line". VP 7-01(02-05)03.01.
16. Operator's Manual "ATN PVS-14 (ATN 6015) Multipurpose Night Vision Systems", 2014.
17. Instruction manual for thermal imaging monocular HELION, TRAIL, APEX, QUANTUM, 2014.
18. Guidelines on marksmanship: checking of combat, bringing small arms to normal combat, armament of combat vehicles and alignment of their sights. VKDP 7-00(01).01.
19. Manual of fire for the 9mm Makarov pistol. VKDP 7-00(01).01.
20. Manual of fire for the 12.7 mm large-calibre machine gun DShKM-TK. VKDP 7-00(03).01.
21. Manual of fire for the 12.7 mm UTES machine gun. VKDP 7-00(01).01.
22. Shooting manual night sights for small arms and hand grenade launchers. VKDP 7-00(01).01.
23. Handguns and hand grenades: shooting manual. VKDP 7-00(01).01.
24. Methodology for Preparing and Conducting Firearms and Weapons Training Classes - Kyiv. NGUDP of the General Staff of the Armed Forces of Ukraine dated 29.04.2020. BII 7-00(01).01.
25. Small arms and combat vehicles firing course (SAF and BM-2018). - Kyiv: Military Publishing House, 2018.
26. Methods of preparation and conduct of combat firing of units (tank crews), platoons of the airborne assault troops of the Armed Forces of Ukraine 2021.
27. A guide to marksmanship. 14.5 mm Volodymyrov tank heavy machine gun (VKVT): VKDP 7-00(01).01 : Ukrainian Armed Forces Command Department of Ordnance in cooperation with the Armed Forces Science Centre and the Armed Forces Logistics Centre. Kyiv : REC of the Armed Forces of Ukraine, 2020.
28. Rifle manual. 30-mm automatic grenade launcher on a machine gun (AGS-17) "Flame": VKDP 7-00(01).01: Ukrainian Armed Forces Command's manual together with the Armed Forces Science Centre and the Armed Forces Central Service Centre. Kyiv: REC of the Armed Forces of Ukraine, 2020.
29. Manual on marksmanship. 40-mm GP-25 under-barrel grenade launcher. VKDP 7-00(01).01: Command of the Armed Forces of the Armed Forces of Ukraine together with the Armed Forces Science Centre and the Armed Forces CMC. Kyiv: REC of the Armed Forces of Ukraine, 2019.
30. Rifle manual. 73-mm easel mounted anti-tank grenade launcher (SPG-9m): VKPD 7-00(01).01: approved by the Command of the Armed Forces of Ukraine on 11 December 2019. Commander of the Armed Forces of Ukraine on 11 December 2019 / AFU CSRD together with the VA (Odesa) and the CSM. AFU. Kyiv : REC of the Armed Forces of Ukraine, 2019.
31. Product 2A42. Instruction manual. 2A42.00.000IE.
32. "Infantry Fighting Vehicle BMP-2 (Guidelines for Arming)." - O.; Military Academy, 2014. - P. 112.
33. Object 765 BMP-1 Technical description and operating instructions.
34. Methodological recommendations. "Organisation of management and improvement of the fire system in modern conditions". VP 7(3)-(01-05)03.01.
35. Guidelines. "For unit commanders on organising counter sniper activities on the contact line".
36. Weapons of the Russian-Ukrainian War. Reference catalogue. Central Military Scientific Directorate of the General Staff of the Armed Forces of Ukraine. October 2023.

Titles of topics and distribution of training time by type of training session

№ n/a	Types of sessions and assessment activities	Number of hours	Of which.		Topic title and learning points
			Contact hours	Independent work	
1	2	3	4	5	6
Chapter 1. Structure of weapons and means of close combat.					
		30	30		Topic 1: Arming units.
1.	Group session	2	2		Lesson 1. 5.56 mm automatic rifle UAR 15, 5.45 mm AK TK-8 (7.62 mm AK TK-9). 1. 5.56 mm UAR 15 automatic rifle, 5.45 mm AK TK-8 (7.62 mm AK TK-9) and its features. 2. Mepro-21M collimator sight. Purpose, characteristics and its general structure and the procedure for bringing small arms with collimator sights to normal combat. 3. Portable monocular night vision device AN/PVS-7, AN/PVS-14. Purpose, characteristics and procedure for use.
2.	Group session	2	2		Lesson 2. 40 mm GP-25 under-barrel grenade launcher. 1. Purpose, combat properties, general structure of the GP-25 under-barrel grenade launcher. 2. The procedure for incomplete disassembly and assembly of the grenade launcher. 3. Purpose, combat characteristics and general structure of the VOG-25 (VOG-25P) shot. 4. Checking the battle and bringing the grenade launcher to normal operation.
3.	Group session	2	2		Lesson 3. 30 mm AGS-17 automatic grenade launcher and 40 mm UAG-40 automatic grenade launcher. 1. Purpose, combat properties, general structure and principle of operation of the AGS-17 and UAG-40 grenade launcher. 2. The procedure for incomplete disassembly and assembly of the grenade launcher. 3. Alignment of the AGS-17 grenade launcher sight. Purpose and use of the software "Kropyva".
4.	Group session	2	2		Lesson 4. 40 mm automatic grenade launcher MK19. 1. Purpose, combat properties, general structure and principle of operation of the MK19 grenade launcher. 2. Sighting devices of the MK19 automatic grenade launcher. 3. The procedure for incomplete disassembly and assembly of the grenade launcher.
5.	Group session	2	2		Lesson 5. SPG-9 easel mounted anti-tank grenade launcher. 1. Purpose, combat properties, general structure and principle of operation of the SPG-9 grenade launcher. 2. The procedure for incomplete disassembly and assembly of the grenade launcher. 3. Delays in firing and ways to eliminate them.
6.	Group session	2	2		Lesson 6. Sights for LNG-9. 1. PGO-9B sight. Controls and procedure for working with the sight. 2. Sight PGOK-9. Controls and procedure for working with the sight. 3. Verification of sighting devices of the SPG-9 grenade launcher.
1	2	3	4	5	6
7.	Group session	2	2		Lesson 7. 12.7 mm heavy machine guns. 1. Purpose, combat characteristics, general structure and principle of operation of the NSV machine gun. The procedure for incomplete

					disassembly and assembly. 2. Purpose, combat characteristics, general structure and principle of operation of the DSK machine gun. The procedure for incomplete disassembly and assembly.
8.	Group session	2	2		Lesson 8. 12.7 mm Browning heavy machine gun. 1. Purpose, combat properties, general structure of the Browning machine gun. 2. The procedure for incomplete disassembly and assembly. 3. Checking the battle and bringing the Browning machine gun to normal operation.
9.	Group session	2	2		Lesson 9. Anti-tank missile system 9K111. 1. Purpose, general structure of the 9K111 system. 2. Purpose, technical characteristics of the 9P135M launcher, general structure of its main parts and principle of operation. 3. Purpose, combat characteristics, general structure and principle of operation of the 9M111 anti-tank missile (9M111-2, 9M113).
10.	Group session	2	2		Lesson 10. Anti-tank missile system 111-1 Stugna-P. 1. Purpose, general structure of the 111-1 complex. 2. Purpose, technical characteristics of the PU 111-1 launcher. General structure of the complex and its main parts. The principle of operation of the complex. 3. Purpose, combat characteristics, general structure and principle of operation of the R-2S anti-tank missile.
11.	Group session	2	2		Lesson 11. Anti-tank missile system 216 "KORSAR". 1. Purpose, general structure of the complex. 2. Purpose, structure and technical characteristics of parts of the complex. The principle of operation of the complex. 3. Purpose, combat characteristics, general structure and principle of operation of the R-3 anti-tank missile.
12.	Group session	2	2		Lesson 12. Anti-tank missile systems and grenade launchers of NATO countries. 1. Purpose, general structure of the complex and the procedure for preparing for the use of NLAW 2. Purpose, general structure and procedure for preparing for the use of Carl Gustaf grenade launcher. 3. Purpose, general structure and procedure for preparing to use the Panzerfaust grenade launcher 3.
13.	Group session	2	2		Lesson 13. Automatic rifles and carbines of the NATO Armed Forces. 1. Purpose, combat characteristics and general structure of the M4A1 automatic carbine. 2. Purpose, combat characteristics and general structure of the FN FAL automatic rifle. 3. The purpose, combat characteristics and general structure of the Diemaco C7A1 assault rifle.
14.	Group session	2	2		Lesson 14. Machine guns of the army of NATO countries 1. Purpose, combat characteristics and general structure of the 5.56 mm M249 handgun. 2. Purpose, combat characteristics and general structure of the 7.62 mm M240 single machine gun. 3. Purpose, combat characteristics and general structure of the 7.62 mm MG 42/59 single machine gun.
15.	Group session	2	2		Lesson 15. Night vision devices and sights of the NATO Armed Forces. 1. Purpose, principle of operation of night vision sights. 2. Purpose, principle of operation of night vision devices. 3. Purpose, principle of operation of thermal imagers.
Section 2: Armament of combat vehicles.					
		10	10		Topic 1: Armament of the BTR-80 armoured personnel carrier.
<i>1</i>	<i>2</i>	<i>3</i>	<i>4</i>	<i>5</i>	<i>6</i>
16.	Group session	2	2		Lesson 1: BTR-80 armoured personnel carrier. 1. Armament of the armoured personnel carrier BTR-80. Turreted machine gun installation BPU-1.

				2. Ammunition of BTR-80 and its placement in the car. 3. Purpose, general structure and placement of the 902B system.
17.	Group session	2	2	Lesson 2: Sight and observation devices of the APCS-80. 1. Composition and placement of sighting and observation devices. 2. Purpose, characteristics and general structure of the 1PZ-2 (PZ-7) sight. 3. Preparation for the operation of the 1PZ-2 (PZ-7) sight (algorithm of the gunner's actions when working with the sight).
18.	Group session	2	2	Lesson 3: Sight and observation devices of APCS-80. 1. Purpose, characteristics and general structure of the TKN-3 observation device. 2. Preparation for the operation of the TKN-3 observation device sight. 3. Possible malfunctions of the TKN-3 surveillance device and ways to eliminate them.
19.	Group session	2	2	Lesson 4. 14.5 mm heavy machine gun KPVT. 1. Purpose, combat properties, general structure and principle of operation of the machine gun. 2. The procedure for incomplete disassembly and assembly after incomplete disassembly of the machine gun. 3. Delays in firing and ways to eliminate them.
20.	Group session	2	2	Lesson 5. Checking the battle and bringing the BTR-80 armament to normal combat. 1. Checking the alignment and alignment of machine guns and sights on a control and alignment target. 2. Procedure for checking the machine guns' fire and bringing the APC to normal combat. 3. Construction of a control and verification target of APCS-80.
		12	12	Topic 2. Armament of the infantry fighting vehicle BMP-2.
21.	Group session	2	2	Lesson 1: BMP-2 infantry fighting vehicle. 1. Purpose and combat capabilities of the BMP-2. 2. Placement of elements of the armament complex and airborne weapons. Ammunition and its placement in the vehicle. 3. Purpose, general structure and deployment of the 902B system.
22.	Group session	2	2	Lesson 2. 30 mm automatic gun 2A42 (ZTM-2). 1. Purpose, combat properties, general structure and principle of operation of the gun. 2. The procedure for incomplete disassembly and assembly of the gun. 3. The procedure for preparing the gun for firing. (Algorithm of actions of the gunner-operator).
23.	Group session	2	2	Lesson 3: BU-25-2S unit and KR-25 box. 1. Purpose, specifications and preparation for combat operation of the BU-25-2S unit. 2. Purpose and preparation for combat operation of the KR-25 box. 3. Algorithm of actions of the vehicle commander, gunner-operator.
24.	Group session	2	2	Lesson 4. Sights and surveillance devices of BMP-2. 1. Composition and placement of sighting and observation devices of the BMP-2 combat compartment. 2. Purpose, characteristics and general structure of sights BPC-2-42 (BPC-2-42-6MT) and 1PZ-3 (7) and its preparation for work. (Algorithm of actions of the gunner-operator, vehicle commander) 3. Align the light beam of the illuminator OU-5 with the direction of the sighting axis of the BPC-2-42 sight.
25.	Group session	2	2	Lesson 5. Power supply system for BMP-2 weapons. 1. Purpose and general structure of the 2A42 gun (ZTM-2) and PKT machine gun power supply system. 2. The procedure for loading tapes into the power supply system of the 2A42 (ZTM-2) gun. Possible malfunctions of the power supply system. The procedure for loading ribbons into the magazine of a twin PKT machine gun. 3. The procedure for equipping the 2A42 (ZTM-2) gun and PKT machine gun with ribbons.

26.	Group session	2	2		<p>Lesson 6. Combat check and bringing BMP-2 weapons to normal operation.</p> <p>1. Procedure for checking the 2A42 (ZTM-2) gun and bringing it to normal combat.</p> <p>2. The procedure for checking the combat and bringing it to normal combat of the PKT machine gun.</p> <p>3. Construction of a control target BMP-2.</p> <p>4. Checking the alignment and verification of the line of sight of the 9Sh119M1 device relative to the direction of the machine's gun.</p>
		8	8		Topic 3: Armament of the infantry fighting vehicle BMP-1.
27.	Group session	2	2		<p>Lesson 1: BMP-1 infantry fighting vehicle.</p> <p>1. Purpose and combat capabilities of the BMP-1.</p> <p>2. Placement of elements of the weapons complex. Ammunition and its placement in the vehicle.</p> <p>3. Guidance drives. Preparing them for combat work.</p>
28.	Group session	2	2		<p>Lesson 2. 73 mm gun 2A28.</p> <p>1. Purpose, combat properties, general structure and principle of operation of the gun.</p> <p>2. Incomplete disassembly and assembly after incomplete disassembly of the 2A28 gun.</p> <p>3. The procedure for preparing the gun for firing (at long range). Elimination of deficiencies that occur during firing.</p>
29.	Group session	2	2		<p>Lesson 3: 1PN22M2 sight.</p> <p>1. General structure, controls and characteristics of the 1PN 22M2 sight.</p> <p>2. Preparation of the 1PN22M2 sight for operation in different modes.</p> <p>3. Possible malfunctions of the sight and ways to eliminate them.</p>
30.	Group session	2	2		<p>Lesson 4. Sight alignment and combat check and bringing the BMP-1 twin machine gun to normal operation.</p> <p>1. Alignment on a control target.</p> <p>2. The procedure for checking the combat and bringing to normal combat of the PKT machine gun.</p> <p>3. Construction of a control target BMP-1.</p>
		6	6		Topic 4. Armament of the armoured personnel carrier BTR-3
31.	Group session	2	2		<p>Lesson 1: BTR-3 armoured personnel carrier</p> <p>1. Purpose and combat capabilities of the BTR-3 armoured personnel carrier.</p> <p>2. The armament unit of the BTR-3.</p> <p>3. Reconciliation of BM-3M module armament.</p> <p>4. Ammunition and its placement in the vehicle.</p>
32.	Group session	2	2		<p>Lesson 2: BTR-3 armoured personnel carrier.</p> <p>1. Purpose, combat capabilities and general structure of ZTM-1 (2A72).</p> <p>2. The procedure for incomplete disassembly and assembly after incomplete disassembly.</p> <p>3. Possible malfunctions of the weapon and ways to eliminate them.</p>
33.	Group session	2	2		<p>Lesson 3: Fire control system of the APCS-3 module.</p> <p>1. Purpose and composition of the fire control system.</p> <p>2. The purpose of video monitors and optoelectronic module (day and night). (Algorithm of action of the gunner-operator).</p> <p>3. Panoramic view device PANORAMA-2P.</p>
<i>1</i>	<i>2</i>	<i>3</i>	<i>4</i>	<i>5</i>	<i>6</i>
Section 3. The basics and rules of shooting.					
		8	8		Topic 1: Fundamentals and rules of small arms and melee fire.
34.	Group session	2	2		<p>Lesson 1: Shooting errors.</p> <p>1. The phenomenon of scatter and the reasons that cause it.</p>

				2. Errors in the preparation of shooting. 3. Total firing errors.
35.	Group session	2	2	Lesson 2: Rules of fire with UAR-15, AK TK-8 (AK TK-9) and 40 mm GP-25 under-barrel grenade launcher 1. Rules of fire with UAR-15, AK TK-8 (7.62 mm AK TK-9). 2. Rules of fire from the 40 mm GP-25 under-barrel grenade launcher.
36.	Group session	2	2	Lesson 3: Rules of fire from automatic grenade launchers. 1. Rules for firing from the AGS-17 grenade launcher and the UAG-40 (MK-19) grenade launcher at moving and emerging targets. 2. The purpose and use of the software "Armor", "Nettle". 3. Solving fire tasks.
37.	Group session	2	2	Lesson 4. Rules for shooting with the SPG-9. 1. Rules for assigning initial settings. 2. Rules for firing from the SPG-9 grenade launcher at emerging and moving targets. 3. Solving fire tasks (including using the software "Armor", "Nettle").
		6	6	Topic 2. Fundamentals and rules of firing weapons of combat vehicles.
38.	Group session	2	2	Lesson 1: Rules of fire from BTR-80 weapons. 1. Rules for assigning initial settings. 2. Rules of firing from BTR-80 weapons at targets that appear and move. 3. Solving fire problems (fire adjustment).
39.	Group session	2	2	Lesson 2: Rules of fire from BMP-2 weapons. 1. Rules for assigning initial settings. 2. Rules for firing from BMP-2 weapons at emerging and moving targets. 3. Solving firing problems.
40.	Group session	2	2	Lesson 3: Rules of fire from BMP-1 weapons. 1. Rules for assigning initial settings. 2. Rules of firing from BMP-1 weapons at targets that appear and move. 3. Rules of fire from the 2A28 gun at long distances. 4. Solving firing tasks (including using the Kropyva software).
Section 4. Fire control.				
		6	6	Topic 1: Fire control of a squad in combat.
41.	Lecture	2	2	Lesson 1. Fire control in combat. 1. Organisation of fire in different types of combat. 2. Fire control in various types of combat.
42.	Group session	2	2	Lesson 2: Organisation and control of squad fire in defence. 1. The work of the squad leader in organising fire. 2. Work of the squad leader on fire control during the battle.
43.	Group session	2	2	Lesson 3. Fire control of a squad in the offensive. 1. The work of the squad leader in organising interaction in the offensive. 2. Fire control of the squad during the offensive. 3. Sequence of commands to open fire and setting fire objectives (object of attack).
Section 5. Methods of Firearms and Weapons Training.				
		4	4	Topic 1: Methodological training of unit commanders in Firearms and Weapons Training.

44.	Group session	2	2		Lesson 1: Methods of Firearms and Weapons Training. 1. Objectives of Firearms and Weapons Training. 2. Methods of teaching Firearms and Weapons Training. 3. Forms of Firearms and Weapons Training.
45.	Group session	2	2		Lesson 2: Basic provisions of the Shooting Course. 1. Requirements for the organisation and conduct of live-fire training and shooting. 2. Evaluation of Firearms and Weapons Training.
		6	6		Topic 2. Methods of conducting practical Firearms and Weapons Training.
46.	Group session	2	2		Lesson 1: Preparation for the lesson at the training site (point). 1. Preparation of the leader. 2. Preparation of educational and material base. 3. Preparation of a lesson plan for the platoon leader (site commander).
47.	Group session	2	2		Lesson 2: Organisation and conduct of squad and platoon live fire. 1. Documents developed for live fire, their content. 2. Scheme of the target situation, initial data for calculation and rules for determining the amount of ammunition. 3. Duties of officials in organising and conducting live fire.
48.	Group session	2	2		Lesson 3: Organisation and methods of conducting live-fire training. 1. Preparation of the leader to conduct live-fire training. 2. The procedure for developing preparatory exercises. 3. The procedure for developing options for displaying targets.
Section 6. Live-fire training and training firing exercises.					
		66	60	6	Topic 1: Fundamentals and rules of small arms and melee fire.
49.	Practical session	6	6		Lesson 1: Techniques and methods of firing small arms and melee weapons in the daytime. 1. Checking the battle and bringing small arms and grenade launchers to normal. 2. Execution of training firing exercises with the AKS-74 (AK-TK8, AR-15) (according to the list of exercises). 3. Execution of training firing exercises with a GP-25 (according to the list of exercises). 4. Fulfilment of standards for Firearms and Weapons Training (according to the album of schemes).
50.	Practical session	4	4		Lesson 2: Techniques and methods of firing small arms and melee weapons at night. 1. Execution of training firing exercises with AKs (AK-TK8, AR-15) (according to the list of exercises). 2. Fulfilment of standards for Firearms and Weapons Training (according to the album of schemes).
51.	Practical session	2	2		Lesson 3: Preparing grenade launchers for firing. 1. Training in incomplete disassembly and assembly of grenade launchers (fulfilment of standards) AGS-17, UAG-40 (MK-19). 2. Alignment of sighting devices of AGS-17 and UAG-40 grenade launchers. 3. Preparing to fire AGS-17 and UAG-40 (MK-19).
<i>1</i>	<i>2</i>	<i>3</i>	<i>4</i>	<i>5</i>	<i>6</i>
52.	Practical session	2	2		Lesson 4. Preparing grenade launchers for firing. 1. Rules for firing from the AGS-17 grenade launcher at emerging and moving targets. 2. Solving fire tasks (including using the software "Armor", "Nettle").
53.	Practical session	6	6		Lesson 5. Techniques and methods of firing small arms and melee weapons in the daytime. 1. Checking the battle and bringing the small arms to normal combat and checking the grenade launcher. 2. Execution of training firing exercises with the AKS (AK-TK) (according to the list of exercises).

					3. Execution of training firing exercises with AGS-17, MK-19 (according to the list of exercises) 4. Fulfilment of Firearms and Weapons Training standards (according to the album of schemes)
54.	Practical session	6	4	2	Lesson 6. Techniques and methods of firing small arms and melee weapons at night. 1. Execution of training firing exercises with ACS (AK-TK, AN/PVS-7,14) (according to the list of exercises). 2. Fulfilment of Firearms and Weapons Training standards (according to the album-schemes). <i>Independent work.</i> 1. Routine maintenance, cleaning, lubrication. 2. Control inspection of weapons.
55.	Practical session	6	6		Lesson 7. Techniques and methods of firing small arms and melee weapons in the daytime. 1. Checking the fight and bringing small arms to normal combat and checking the grenade launcher. 2. Execution of the exercise of training firing from the PK (PKM) (according to the list of exercises). 3. Execution of a training exercise with SPG-9 (according to the list of exercises). 4. Fulfilment of standards for Firearms and Weapons Training (according to the album of schemes).
56.	Practical session	4	4		Lesson 8. Techniques and methods of firing small arms and melee weapons at night. 1. Execution of training firing exercises with a PK (PKM) (according to the list of exercises) 2. Fulfilment of standards for Firearms and Weapons Training (according to the album of diagrams).
57.	Practical session	6	6		Lesson 9. Techniques and methods of firing small arms and melee weapons in the daytime. 1. Exercise of training firing from the DSKM (NSV), Browning M2)According to the list of exercises). 2. Fulfilment of standards for Firearms and Weapons Training (according to the album of diagrams).
58.	Practical session	6	4	2	Lesson 10. Techniques and methods of firing small arms and melee weapons at night. 1. Execution of training firing exercises with DSKM (NSV), Browning M2 (according to the list of exercises). 2. Fulfilment of standards for Firearms and Weapons Training. <i>Independent work.</i> 1. Routine maintenance, cleaning, lubrication. 2. Control inspection of weapons.
59.	Practical session	6	6		Lesson 11. Preparing an ATGM for firing. 1. Training in the performance of H-VP-1, 2 product 9K111, 9K115. 2. Training on the KORSAR and UTS 111-1. 3. Training on the FGM-148 Javelin and NLAW simulators.
60.	Practical session	6	6		Lesson 12. Techniques and methods of firing small arms and melee weapons in the daytime. 1. Execution of training firing exercises with weapons of the NATO Armed Forces (according to the list of exercises) 2. Execution of training firing exercises with grenade launchers of NATO countries (according to the list of exercises). 3. Fulfilment of Firearms and Weapons Training standards. (According to the album-schemes)
<i>1</i>	<i>2</i>	<i>3</i>	<i>4</i>	<i>5</i>	<i>6</i>
61.	Practical session	6	4	2	Lesson 13. Techniques and methods of firing small arms and melee weapons at night. 1. Exercise of training firing with weapons of the NATO Armed Forces (according to the list of exercises). 2. Fulfilment of standards for Firearms and Weapons Training (according to the album-schemes). <i>Independent work.</i> 1. Routine maintenance, cleaning, lubrication. 2. Control inspection of weapons.
		54	52	2	Topic 2. Fire training. Performing firing exercises with weapons of combat vehicles.

62.	Practical session	6	6		Lesson 1: Crew actions when arming combat vehicles. 1. Training in crew actions when armed with APCS-80. 2. Fulfilment of standards for Firearms and Weapons Training. 3. Checking the battle and bringing the APCS-80 weapons to normal combat.
63.	Practical session	6	6		Lesson 2: Techniques and methods of firing from weapons of combat vehicles during the day. 1. Checking the battle and bringing the armament of the APCS-80 to normal combat. 2. Performing a preparatory exercise of firing from an APCS-80 (according to the list of exercises). 3. Fulfilment of standards for Firearms and Weapons Training (according to the album of diagrams).
64.	Practical session	5	4	1	Lesson 3: Techniques and methods of firing from weapons of combat vehicles at night. 1. Performing a preparatory exercise of firing from an APCS-80 (according to the list of exercises). 2. Fulfilment of standards for Firearms and Weapons Training. (According to the album-schemes). <i>Independent work.</i> 1. Routine maintenance, cleaning, lubrication. 2. Control inspection of weapons.
65.	Practical session	6	6		Lesson 4. Crew actions when arming combat vehicles. 1. Training in crew actions when arming BMP-2. 2. Fulfilment of standards for Firearms and Weapons Training. 3. Checking the battle and bringing the BMP-2 weapons to normal combat.
66.	Practical session	6	6		Lesson 5. Techniques and methods of firing from weapons of combat vehicles during the day. 1. Checking the battle and bringing the BMP-2 weapons to normal combat 2. Performing a preparatory exercise of firing from BMP-2 (according to the list of exercises). 3. Fulfilment of standards for Firearms and Weapons Training (according to the album-schemes).
67.	Practical session	5	4	1	Lesson 6. Techniques and methods of firing from weapons of combat vehicles at night. 1. Performing a preparatory exercise of firing from BMP-2 (according to the list of exercises). 2. Fulfilment of standards for Firearms and Weapons Training. (According to the album-schemes). <i>Independent work.</i> 1. Routine maintenance, cleaning, lubrication. 2. Control inspection of weapons.
68.	Practical session	6	6		Lesson 7. Techniques and methods of firing from weapons of combat vehicles during the day. 1. Sight alignment, combat check and bringing the twin BMP-1 machine gun to normal operation. 2. Perform a training exercise of firing from the BMP-1 (according to the list of exercises). 3. Fulfilment of Firearms and Weapons Training standards (according to the album of diagrams).
<i>1</i>	<i>2</i>	<i>3</i>	<i>4</i>	<i>5</i>	<i>6</i>
69.	Practical session	4	4		Lesson 8. Techniques and methods of firing from weapons of combat vehicles at night. 1. Execution of a training exercise of firing from BMP-1 (according to the list of exercises). 2. Fulfilment of standards for Firearms and Weapons Training (according to the album of diagrams).
70.	Practical session	6	6		Lesson 9. Crew actions when arming combat vehicles. 1. Sight alignment, combat check and bringing the twin machine gun of APCS-3, APCS-4 to normal combat. 2. Performing a preparatory exercise of firing from APCS-3, APCS-4 (according to the list of exercises). 3. Fulfilment of standards for Firearms and Weapons Training (according to the album of schemes).
71.	Practical	4	4		Lesson 10. Techniques and methods of firing from weapons of combat vehicles at night.

	session				1. Performing a preparatory exercise of firing from APCS-3, APCS-4 (according to the list of exercises). 2. Fulfilment of standards for Firearms and Weapons Training (according to the album of diagrams).
		12	12		Topic 3. Fire control in combat.
72.	Practical session	6	6		Lesson 1. The work of the squad leader in controlling the squad's fire in defence. 1. The work of the squad leader in organising the squad's fire in defensive combat. 2. Setting tasks for the personnel and firepower of the squad. 3. Training in giving commands to open fire and setting fire objectives.
73.	Practical session	6	6		Lesson 2. The work of the squad leader in controlling the squad's fire in the offensive. 1. The work of the squad commander in organising the squad's fire in offensive combat. 2. Setting tasks for the personnel and firepower of the squad. 3. Training in giving commands to open fire and setting fire objectives.
	Control measures	12	6	6	Examination
	Total for the educational component	240	226	14	

BC 3 AIRBORNE TRAINING

Name of the component

General purpose of the component of the educational programme:

The main objective of teaching the discipline Airborne Training is to train a tactical officer who is able to organise airborne training in a Marine unit during service and combat missions, prepare personnel, weapons and cargo for parachute landing.

As a result of studying the discipline, trainees should:

know

the requirements of the governing documents that regulate the content of combat training and the methodology for organising and conducting lessons with airborne training personnel;

organising the training of personnel and cargo for parachute and landing landings;

organising and conducting training parachute jumps from helicopters and transport aircraft of the Armed Forces of Ukraine;

organising the airborne assault of units for combat missions and tactical exercises;

material part of human landing parachutes and parachute devices, airborne equipment;

requirements to the training and material base for airborne training.

be able to:

- organise, personally supervise and conduct the preparation of a marine platoon for airborne assault;
- prepare and load personnel, weapons and equipment into transport aircraft and helicopters;
- organise and conduct technical inspections of airborne equipment and assets;
- Conduct training on airborne drills with the unit's personnel

Organisational and methodological instructions:

Tasks (guidelines) issued for independent work are included in the teaching and methodological materials of the discipline, which are developed taking into account the level of basic knowledge and other characteristics of trainees. Parachute jumps are carried out at the expense of the reserve of training time.

Material and technical support:

- Specialised airborne training sessions;
- PCs and a computer data projector;
- parachute systems of various types;
- training places on the airborne complex;
- training complex;

Information and methodological support:

1. Textbook "Airborne Training" by the Ukrainian Airborne Forces, 2023.

2. Training manual "Parachute cargo container", UA, 2020.
3. Training manual "Special equipment of a paratrooper" DIA, 2010.
4. Training manual "Parachute landing", UA, 2019.
5. Training manual "Maintenance of airborne equipment", UA, 2019
6. Handbook "Airborne parachute systems of the leading countries of the world", UA, 2019.
7. Training manual "Methods of training personnel for parachute jumping", UA, 2019.
8. Airborne Service Manual (NPDS-2006) 2007.
9. Airborne Service Manual (ASM-2003) Part 2, 2003.
10. Collection of standards for combat training of the Airborne Assault Forces, 2017.

Titles of topics and distribution of training time by type of training session

№ n/a	Types of sessions and assessment activities	Number of hours	Of which.		Topic title and learning points
			Contact hours	Independent work	
		10	10		Topic 1: Organisation of airborne training and operation of airborne equipment in the unit
1.	Lecture	2	2		Lesson 1: General provisions on the organisation of airborne training. 1. Requirements of the guiding documents on airborne training. 2. Responsibilities of airborne training officials. 3. Documents on the organisation of airborne training in a military unit.
2.	Lecture	2	2		Lesson 2. Operation and maintenance of airborne vehicles. 1. Classification of airborne vehicles. 2. Procedure for the supply, accounting and write-off of airborne equipment. 3. Organisation of technical inspections of airborne vehicles.
3.	Group training	2	2		Lesson 3: Organisation of technical inspections of airborne vehicles. 1. Preparation of documents for technical inspections of airborne vehicles 2. The procedure for maintaining documents on the operation of airborne vehicles.
4.	Lecture	2	2		Lesson 4. Preparation and conduct of skydiving. 1. Organisation of training parachute jumps. 2. Features of the organisation and conduct of parachuting. 3. Duties of officials during parachuting.
5.	Group session	2	2		Lesson 5. The procedure for keeping airborne training documents. 1. The procedure for maintaining documentation on airborne training. 2. Preparation of documents for parachuting.
		6	6		Topic 2. Airborne parachute systems.
6.	Group session	2	2		Lesson 1: Material part of airborne parachute systems. 1. Purpose, tactical and technical data and composition of airborne parachute systems. 2. Structure of the components of parachute systems.
7.	Group session	2	2		Lesson 2. Material part of reserve parachutes and parachute equipment. 1. Purpose, tactical and technical data and structure of reserve parachutes. 2. Purpose, technical data and structure of parachute devices. 3. Procedure for preparing and installing parachute equipment on parachute systems.
8.	Control session	2	2		Lesson 3. Material part of parachute systems and parachute devices. 1. Purpose, tactical and technical data and structure of airborne parachute systems. 2. Purpose, tactical and technical data and structure of parachute devices.
		20	20		Topic 3. Parachute stowage
9.	Practical session	4	4		Lesson 1: Organisation of parachute stowage. 1. Preparation of the workplace for parachute deployment.

				2. The procedure for laying airborne parachute systems and control of the laying stages.
10.	Practical session	12	4/4/4	Lessons 2-4. Training parachute deployment. 1.Preparation of the workplace for parachute deployment. 2. Laying of airborne parachute systems and control of the laying stages.
11.	Controlling session	4	4	Lesson 5. Training parachute deployment. 1.Preparation of the workplace for parachute deployment. 2. Fulfilment of standards for parachute system installation.
		10	10	Topic 4. Practicing elements of a parachute jump on simulators of the airborne complex
12.	Group session	2	2	Lesson 1: Airborne assault system and its elements. 1. Equipment of the airborne complex. 2. Training of paratroopers at the airfield (start). 3. Development of elements of a parachute jump on MAC simulators.
13.	Practical session	6	2/2/ 2	Lessons 2-4. Practicing elements of a parachute jump at an airborne complex. 1.Preparation of parachutists at the airfield (start). 2. Practicing elements of a parachute jump on MAC simulators.
14.	Control session	2	2	Lesson 5. Practicing elements of a parachute jump on an airborne complex. 1.Fulfilment of standards for the preparation of personnel for jumping. 2. Practicing the elements of a parachute jump on MAC simulators.
		10*	10*	Topic 5. Performing training parachute jumps
15.	Practical session	4*	4*	Lesson 1. Parachute stowage for jumping. 1.Preparation of a workplace for parachute deployment. 2.Laying of airborne parachute systems and control of the laying stages. 3. Preparation of documentation.
16.	Practical session	2*	2*	Lesson 2: Pre-jump training according to the jump task 1.Setting a task to perform an introductory parachute jump. 2. Pre-jump training on the simulators of the airborne complex.
17.	Practical session	4*	4*	Lesson 3: Performing an introductory parachute jump 1.Preparation of parachutists at the airfield (start). 2.Performing an introductory parachute jump. 3. Analysis of parachute jumps.
		10	10	Topic 6. Parachute landing
18.	Group session	2	2	Lesson 1: A set of removable on-board equipment of the CBRN 1. Set of removable on-board equipment "Adapter-M1, Rope-1". 2. The procedure for parachute landing.
19.	Practical session	4	2/2	Lessons 2, 3. Parachute landing 1. Execution of the landing with the help of the "Adapter-M1, Rope-1". 2. The procedure for evacuation of personnel. 3. Fulfilment of standards for parachute landing.
20.	Practical session	4	4	Lesson 4. Parachute landing 1. Landing with the help of the Mi-8 helicopter with the help of the CCD. 2. Procedure for evacuation of personnel using the "Adapter-M1, Rope-1".

		18	18	Topic 7. Parachute cargo containers
21.	Group session	2	2	Lesson 1: Cargo containers and landing straps 1. Purpose, technical data and structure of cargo containers and landing straps. 2. Preparation of cargo containers and landing straps for landing.
22.	Group session	4	4	Lesson 2. Material part of the parachute pack 1. Purpose, tactical and technical data and structure of the PDMM-47, PDUR-47. 2. Purpose, tactical and technical data and structure of the cargo parachute OKS-4 series 4. 3. Laying of the cargo parachute OKS-4 series 4.
23.	Practical session	8	4/4	Lesson 3, 4. Preparing cargo for airdrop in parachute containers 1. Laying down a cargo parachute of the OKS-4 series 4. 2. Preparation of cargo for airdrop in parachute containers.
24.	Practical session	4	4	Lesson 5. Parachute load systems of the PGS-500 type 1. Purpose, tactical and technical data and structure of the PGS-500 parachute load system. 2. Preparation of cargo for landing on the PGS-500 parachute cargo system.
		16	16	Topic 8: Methodological training
25.	Lecture	2	2	Lesson 1: Airborne training and the basics of teaching it 1. Methods of preparing and conducting airborne training sessions. 2. Assessment of airborne training. 3. Military standards for airborne training.
26.	Group session	2	2	Lesson 2. Methods of conducting exercises at the airborne complex 1. Methods of conducting exercises on airborne complex simulators. 2. Methods of preparing paratroopers of various specialities for jumping.
27.	Group session	4	4	Lesson 3. Methods of laying airborne parachute systems 1. Methods of laying airborne parachute systems and their control. 2. Methods of checking parachutes.
28.	Group session	2	2	Lesson 4. Methods of organising airborne training in a unit 1. Methods of preparing a platoon leader for training. 2. Methods of keeping documents on airborne training.
29.	Group session	2	2	Lesson 5. Methods of conducting airborne training exercises 1. Methods of preparation for jumping from different types of aircraft. 2. Preparation of releasing officers.
Control measures		4	4	Differential credit
Total for the educational component		90	90	

BC 4 STRUCTURE OF ARMoured VEHICLES

name of the component

General purpose of the educational programme component:

The main purpose of teaching the discipline "Structure of armoured vehicles" is to prepare a tactical level military officer who knows the theoretical foundations of armoured weapons and equipment, prospects for their development and military equipment of the armies of NATO member states;

has full knowledge of the structure of the BTR-80 armoured personnel carrier and BMP-2 infantry fighting vehicle;

is able to technically competently operate the units and mechanisms of the BTR-80 armoured personnel carrier and BMP-2 infantry fighting vehicle, determine their technical condition, and troubleshoot them during operation;

is familiar with the general structure of other models of BTOT;

able to independently master new models of armoured vehicles and equipment.

As a result of studying the discipline, trainees should:

know

tactical and technical characteristics, combat capabilities, general structure and principle of operation of components of the main models of armoured vehicles of organic units, the procedure for diagnosing and carrying out simple types of routine maintenance.

be able to:

correctly operate units, devices, assemblies and systems of BTOT samples;

determine the performance of components (systems) of armoured weapons and equipment samples;

independently master new models of equipment in the troops.

organise the implementation of safety measures when working on BTOT;

Organisational and methodological instructions:

The process of teaching the structure and maintenance of combat vehicles is carried out taking into account the basic principles of training (visibility, consistency, systematicity, individual approach, etc.) and includes: studying the purpose of the technical characteristics and structure of systems, units, components and mechanisms, studying the procedure for their maintenance.

The main types of lessons are group sessions, practical sessions and independent work.

In group sessions, trainees study the general structure and principles of operation of combat vehicle systems and assemblies and their maintenance. It is advisable to conduct group sessions with the creation of problematic situations. Training sessions are held in specialised classrooms with appropriate material support. Presentation material, equipment of specialised classrooms and areas, and technical training aids are used in the conduct of training sessions.

The methodology of the training session is chosen by the instructor independently, but it must ensure that the cadets learn the material effectively and develop creative analytical thinking, a broad technical outlook, and the ability to work independently with technical literature.

Practical sessions are conducted to consolidate the knowledge gained by trainees in group sessions and independent work, to acquire the necessary skills and abilities, as well as to assess the knowledge of trainees on the topic. During practical sessions, trainees' knowledge is tested. It is conducted in oral or written form, by performing practical operational tasks, tests, etc.

Practical sessions with a training group of cadets are usually conducted by two teachers with the involvement of the engineering and technical staff of the department with the division of the training group into subgroups.

During practical sessions, along with acquiring practical skills in performing work on armoured vehicles, cadets must improve their skills in methodological training. To this end, they may be appointed as assistant class leaders and supervisors at training sites during practical exercises.

In order to develop technical erudition and to become more familiar with the structure and operation of armoured vehicles, cadets should conduct training sessions using maintenance equipment on regular equipment of the units.

During independent work, trainees consolidate previously studied material, work independently with technical literature and documentation, and work on individual issues on their own. For each independent work, cadets are provided with the necessary material support, recommended literature and questions for self-control.

The responsibility for creating conditions for the organisation of quality independent work of cadets lies with the commanders of the units, who organise and keep records of independent work of cadets with the involvement (if necessary) of the teachers of the department.

Material and technical support:

Armoured personnel carrier BTR-80;

Infantry fighting vehicle BMP-2;

Infantry fighting vehicle YPR-765.

APCS BTR-80;

models of BTR-80 components and assemblies;

BMP-2 training classroom;

Spare parts and accessories;

PC (multimedia projector).

Information and methodological support:

1. Armoured weapons. Study guide. Military Academy. Odesa-2015.
2. Infantry fighting vehicle BMP-2. Structure and basics of operation. Ministry of Defence of Ukraine, Lviv, 2011.
3. Armoured personnel carrier BTR-80. Structure and basics of operation. MOD Lviv, 2012.
4. BTR-3DA armoured personnel carrier "Operation Manual" B1352 RE-LU 2015.
5. BTR-3E1. Technical description and operating instructions. Kyiv 2014, 363 pp.
6. Sample instructions on the rules of compliance with safety requirements during the operation and repair of armoured weapons and equipment and armoured property. 05.BTOT.018.I.- K.: 2002. - 208 p.
7. Guidelines for the organisation of the operation of armoured weapons and equipment in the Armed Forces of Ukraine in peacetime. Approved by Order of the Minister of Defence of Ukraine 665 of 25.12.2009.

8. Structure and operation of basic armoured vehicles. MOD Lviv 2012.
9. Military repair of weapons and military equipment. MoD OISV-2004.
10. Technical Description and Operation Manual for BTR-4E. Kyiv 2014. B1318E-1 RE. - 446 p.
11. Technical support of ground forces units. MOD Odesa-2001.
12. Collection of operational cards for the implementation of technical training standards for mechanised, tank and reconnaissance units. 2002. 264 pp.
13. Handbook on the Armoured Service of the Armed Forces of Ukraine 2013. 133 pp.
14. Technical support of the units of the Land Forces Odesa OISV 2001 164p.
15. Management of technical support of the units of the Army of the Armed Forces of Ukraine Part 2. MOD Odesa 2011.
16. Military repair of weapons and military equipment. MoD OISV-2004.
17. BTR-3E1 Technical description and operating instructions Kyiv. Varta, 2014, 447 pp.

Titles of topics and distribution of training time by type of training session

№ n/a	Types of sessions and assessment activities	Number of hours	Of which.		Topic title and learning points
			Contact hours	Independent work	
		12	12		Topic 1: Armoured weapons of the Armed Forces of Ukraine.
1	Group session	2	2		Lesson 1: Features of the general structure of tracked combat vehicles (TCVs). 1. Purpose and technical characteristics of systems and components, their layout. 2. General structure of tracked combat vehicles. 3. Accommodation of crew, troops and equipment in the compartments of the vehicle.
2	Group session	2	2		Lesson 2: Features of the general structure of wheeled combat vehicles (WV). 1. Purpose and technical characteristics of systems and components, their layout. 2. General structure of wheeled combat vehicles. 3. Accommodation of crew, troops and equipment in the compartments of the vehicle.
3	Practical session	4	4		Lesson 3: Practical study of the general structure of tracked combat vehicles. 1. Study of the general structure, layout of the vehicle. 2. Study of crew, troops and equipment placement in the vehicle compartments. 3. Use of hatches, vehicle doors and crew seats.
4	Practical session	4	4		Lesson 4. Practical study of the general structure of wheeled combat vehicles. 1. Study of the general structure, layout of the vehicle. 2. Study of the placement of crew, troops and equipment in the compartments of the vehicle. 3. Use of hatches, vehicle doors and crew seats.
		2	2		Topic 2. Engines of combat vehicles.
5	Group session	2	2		Lesson 1: General structure of a four-stroke diesel engine. 1. Fundamentals of the internal combustion engine. 2. General structure and structure of mechanisms of a four-stroke diesel engine. 3. The working cycle of a four-stroke diesel engine.
		6	6		Topic 3. Engine systems.
6	Group session	2	2		Lesson 1: Systems that ensure engine operation. 1. Engine systems and their general purpose. 2. General structure of engine systems.
7	Practical session	4	4		Lesson 2: Practical study of engine systems. 1. Practical study of engine power systems. 2. Practical study of the engine lubrication system of combat vehicles. 3. Practical study of the cooling and heating system of combat vehicles. Practical study of the cooling and heating system, air start and engine protection mechanism against water ingress.
		6	6		Topic 4. Transmissions of combat vehicles.

8	Group session	2	2		Lesson 1: Control drives of combat vehicles. 1. Classification of control drives. 2. Control drives of wheeled combat vehicles. 3. Control drives of tracked combat vehicles.
9	Practical session	2	2		Lesson 2: Practical study of control drives of combat vehicles. 1. Practical study of control drives of wheeled combat vehicles. 2. Practical study of control drives of tracked combat vehicles.
10	Group session	2	2		Lesson 3: Transmissions of combat vehicles. 1. Purpose and general structure of the transmission. 2. Purpose and general structure of transmission units.
		4	4		Topic 5. Chassis of combat vehicles.
11	Group session	2	2		Lesson 1: Running gear of tracked combat vehicles. 1. Purpose, technical characteristics, structure and operation of the track. 2. Purpose, technical characteristics, structure and operation of the suspension.
12	Group session	2	2		Lesson 2: Chassis of wheeled combat vehicles. 1. Purpose, technical characteristics, structure and operation of the suspension. 2. Purpose, technical characteristics, structure and operating procedures of wheels.
		2	2		Topic 6. Pneumatic equipment.
13	Practical session	2	2		Lesson 1: Practical study of pneumatic equipment of combat vehicles. 1. Study the location of components and parts of pneumatic equipment of wheeled combat vehicles, the procedure for use and maintenance. 2. Study the location of components and parts of pneumatic equipment of tracked combat vehicles, the procedure for use and maintenance.
		2	2		Topic 7. Steering of the vehicle.
14	Practical session	2	2		Lesson 1: Practical study of steering of wheeled combat vehicles 1. Study of the location of steering components and parts. Procedure for use and maintenance. 2. Study of the location of components and parts of the control unit of the vehicle afloat. Procedure for use and maintenance. 3. Study the location of components and parts of the hydraulic system. Procedure of use and maintenance.
		2	2		Topic 8: Braking systems of wheeled combat vehicles.
15	Practical session	2	2		Lesson 1: Practical study of braking systems of wheeled combat vehicles. 1. Study of the location of components and parts of the working brake system. Procedure for use and maintenance. 2. Study of the location of components and parts of the parking brake system. The procedure for use and maintenance. 3. Study of the location of components and parts of the anti-roll bar. Procedure for use and maintenance.
		6	6		Topic 9: Amphibious equipment.
16	Practical session	6	6		Lesson 1: Practical study of amphibious equipment combat vehicles. 1. Practical study of amphibious equipment wheeled combat vehicles. 2. Practical study of amphibious equipment tracked combat vehicles. 3. Use and maintenance of amphibious equipment combat vehicles.
		4	4		Topic 10. Special equipment of combat vehicles.
17.	Group session	2	2		Lesson 1: Special equipment of combat vehicles. 1. Smoke screen system and winch. 2. Purpose, technical characteristics, structure and operation of fire-fighting equipment (FFE).

				3. Purpose, technical characteristics, structure and operation of the system of protection against weapons of mass destruction (WMD).
18	Practical session	2	2	Lesson 2: Practical study of special equipment of combat vehicles. 1. Study the location of components and parts of the air defence system and the WMD protection system. The procedure for use and technical equipment. 2. Study the location of components and parts of the smoke exhaust and winch. Procedure of use and technical equipment.
		10	10	Topic 11. Electrical equipment of combat vehicles.
19	Group session	2	2	Lesson 1: General structure of the electrical equipment of combat vehicles. Sources of electrical energy. 1. Purpose, technical characteristics, general structure of electrical equipment. 2. Purpose, technical characteristics, structure and operation of batteries. The procedure for checking the technical condition. 3. Purpose, technical characteristics, structure and operation of generator sets.
20	Practical session	2	2	Lesson 2: Practical study of electric power sources of combat vehicles. 1. Study of the location of units, units of electrical energy sources. Procedure for use and maintenance. 2. Study of the procedure for the use and maintenance of batteries.
21	Group session	2	2	Lesson 3: Electricity consumers, control and measuring and auxiliary devices. 1. Purpose, technical characteristics, structure and operation of electricity consumers. 2. Purpose, technical characteristics, structure and operation of the electric motor starting system. 3. Purpose, structure and operation of control and measuring instruments. 4. Purpose and composition of auxiliary equipment.
22	Practical session	4	4	Lesson 4. Practical study of electrical power consumers, control and measuring devices and auxiliary equipment of combat vehicles. 1. Study of the location of units, components and parts of electrical energy consumers. Procedure for use and maintenance. 2. Study the procedure for the use and maintenance of lighting and signalling devices. 3. Study of the location of control and measuring devices, night vision devices. The procedure for use and maintenance.
Control measures		4	4	Differential credit
Total for the educational component		60	60	

BC 5 DRIVING COMBAT VEHICLES

name of the component

General purpose of the educational programme component:

The purpose of teaching the discipline "Driving combat vehicles" is to train a tactical officer who has the necessary knowledge and stable skills in: the procedure for using the technical capabilities of combat vehicles, confident driving in different terrain, time of day and weather conditions; organisation and implementation of loading (unloading) equipment on vehicles, self-pulling during stuck vehicles and their towing; preparation, organisation and methods of conducting sessions on driving combat vehicles with subordinate personnel.

As a result of studying the component of the educational programme, the trainee must:

know:

the basics of movement and rules of combat vehicles.

the requirements of the Combat Vehicle Driving Course for the organisation of driving lessons and assessment (individual and unit).

the procedure for organising and conducting combat vehicle driving sessions.

be able to:

fully use the technical capabilities of combat vehicles.

confidently drive the unit's regular equipment on rough and difficult terrain at the highest possible speed, overcome various obstacles, limited and rutted passages and barriers;

to load (unload) equipment onto vehicles, to pull out vehicles when they are stuck and to tow them, to overcome water obstacles;

organise driving lessons with subordinate personnel

Organisational and methodological instructions:

The process of teaching combat vehicle driving is conducted in accordance with the basic principles of teaching (visibility, consistency, systematicity, individual approach, etc.) and includes: studying the basics of vehicle movement, studying the rules of driving, training on simulators, practical driving on equipment.

The following teaching methods are used in driving lessons: storytelling, explanation, demonstration, training (exercises), conversation, independent work and practical driving. The main type of training is practical training.

The procedure for organising and conducting practical driving lessons is based on the following principles:

The number of training seats for each lesson and the issues to be practised is determined by the lesson leader based on the content of the exercise, training time, the number of cadets and their level of training, material support and tank farm capacity;

each driving exercise is performed in one or more sessions;

exercises that are to be performed during the day and at night are first performed during the day and then at night;

the exercises may begin with training in driving techniques by elements (overcoming individual obstacles and narrow passages). After that, they are performed as a whole.

Logistics:

When practising driving exercises on vehicles:

- BTR-80 (BTR-3E1U) - 4 units;
- BMP-1 (BMP-2) - 4 units;
- ambulance vehicle;
- evacuation vehicle;
- an emergency vehicle;
- tank range equipment in accordance with the planned exercises;

During the training of driving exercises on simulators:

- BMP-2 dynamic simulator - 3 units;
- BMP-2 - 1 unit;
- APC and BMP training stands.

Information and methodological support:

1. Armoured weapons: a textbook / Y.P. Karlenko, S.V. Melnychenko, V.A. Ovchynnyk, K.O. Luhovskikh - Odesa: Military Academy, 2015 - 222 p.
2. BTR-3DA Armoured Personnel Carrier: Operation Manual. 2015 p., Kyiv: KBTZ. - 541 p.
3. BTR-3E1U Armoured Personnel Carrier: Operation Manual. 2015, K, KBTZ - 534 p.
4. Driving combat vehicles: a practical manual / V.M. Yarmolyuk, V.V. Remin, M.M. Magats, V.V. Melnyk - Odesa: Military Academy, 2019. 92 p.
5. Driving combat vehicles: a training manual / M.V.Chorny, R.V.Dolhov, S.S.Stepanov and others - Lviv: NASV, 2016 - 454 p.
6. Collection of standards of combat training of the Land Forces of the Armed Forces of Ukraine. - Kyiv, 2002. 198 p.
7. Evacuation of weapons and military equipment: a manual. The Scientific and Educational Centre for the Armed Forces of Ukraine at the OOLISV, Odesa, 2004 - 116 p.
8. Guidelines for overcoming water obstacles and land obstacles (VKDP 7-(01.02-10.22-25.32-34)01.01) - K. GUP of the Armed Forces of Ukraine, 2019 - 184 p.
9. Combat Vehicle Driving Course (BP 7-00(01).01), 2019 - K., GUP of the Armed Forces of Ukraine, 2019 - 126 p.
10. Methodological recommendations. Training of mechanics-drivers (drivers) (BP 7-00(03).01). GUP AFU, 2019 - 116 p.
11. Fundamentals of movement and driving rules of combat vehicles: a textbook / M.V.Chorny, R.V.Dolhov, S.S.Stepanov and others - Lviv, DIA, 2014 - 131 p.

Titles of topics and distribution of training time by type of training session

№ s/n	Types of sessions and assessment activities	Number of hours	Of which.		Topic title and learning points
			Contact hours	Independent work	
		2	2		Topic 1: Basic movements and driving rules.
1	Lecture	2	2		Lesson 1: Introduction to the discipline. Study of the basics of movement and driving rules of combat vehicles. 1. Subject of the discipline, the role and place of driving combat vehicles in the training of military specialists. The procedure for studying the discipline, reporting, responsibilities of trainees. 2. Requirements of the Combat Vehicle Driving Course for the organisation of training. 3. General safety measures when driving combat vehicles in different conditions.
		10	10		Topic 2: Fundamentals of driving.
2	Practical session	6	6		Lesson 1: Performing preparatory exercise No. 1 on the technique in the afternoon. 1. Controls of the combat vehicle, control and measuring devices and rules for their use. Preparing the vehicle for movement, starting the engine, moving off, braking and stopping the vehicle 2. Practical performance of preparatory exercise No. 1 on the vehicle in the daytime 3. Practicing the technique of stopping the vehicle in a designated place (obstacle No. 8) and reversing. 4. Rules of driving combat vehicles. Procedure for giving marks for driving technique and speed.
3	Practical session	4	4		Lesson 2: Performing preparatory exercise No. 1 on the technique at night. 1. Practical performance of preparatory exercise No. 1 on the equipment. 2. Practice the technique of stopping the vehicle in the designated place (obstacle No. 8) and reversing. 3. Rules of driving combat vehicles. Peculiarities of preparatory exercise No. 1 at night.
		8	8		Topic 3: Techniques for overcoming natural obstacles.
4	Practical session	4	4		Lesson 1: Performing preparatory exercise No. 2 on the technique in the afternoon. 1. Practical performance of preparatory exercise № 2 on the technique. 2. Technique of stopping the vehicle in the specified place (obstacle No. 8) and turns between the posts (obstacle No. 7). 3. Driving rules for combat vehicles. Assessment of driving rules (standards).
5	Practical session	4	4		Lesson 2: Performing preparatory exercise No. 2 on the technique at night. 1. Practical performance of preparatory exercise № 2 on the equipment. 2. Practicing the technique of stopping the vehicle in the specified place (obstacle # 8) and turning between the posts (obstacle # 7). 3. Driving rules. Peculiarities of preparatory exercise No. 2 at night.
		8	8		Topic 4: Driving in confined spaces.
6	Practical session	4	4		Lesson 1: Performing preparatory exercise No. 3 on the equipment in the afternoon. 1. Practical performance of preparatory exercise № 3 on the technique in the afternoon. 2. Putting the vehicle in and out of the trench (standard No. 4). 3. Driving rules. Procedure for overcoming the obstacles of preparatory exercise No. 3.
7	Practical session	4	4		Lesson 2: Performing preparatory exercise No. 3 on the technique in the afternoon. 1. Practical performance of preparatory exercise № 3 on the technique in the afternoon.

				2. Putting the vehicle in and out of a trench (standard 4).
		28	28	Topic 5. Driving other brands of combat vehicles.
8	Practical session	4	4	Lesson 1: Performing preparatory exercise No. 1 on the simulator. 1. Controls of a combat vehicle, control and measuring devices and rules for their use. 2. Practical performance of preparatory exercise No. 1 on the simulator. 3. Training in the implementation of the standard for technical training No. 1 "Control inspection of the vehicle" 4. Driving rules. Preparing the machine for movement, starting the engine, moving off, braking and stopping the machine.
9	Practical session	4	4	Lesson 2: Performing preparatory exercise No. 1 on the equipment in the daytime. 1. Practical performance of preparatory exercise No. 1. 2. Practicing the technique of stopping the vehicle in a designated place (obstacle # 8) and reversing. 3. Rules for overcoming obstacles, models of structures and additional equipment, according to the conditions of preparatory exercise No. 1.
10	Practical session	4	4	Lesson 3: Performing preparatory exercise No. 2 on the simulator. 1. Practical performance of preparatory exercise No. 2 on the simulator. 2. Training in the performance of standards of technical training № 14, 15. 3. Driving rules. Peculiarities of overcoming obstacles, models and structures provided for in preparatory exercise No. 2 on an IFV.
11	Practical session	4	4	Lesson 4. Performing preparatory exercise No. 2 on the technique in the afternoon. 1. Practical performance of preparatory exercise No. 2. 2. Practicing the technique of stopping the vehicle in a specified place (obstacle No. 8) and turning between the posts (obstacle No. 7). 3. Driving rules. Equipment of the tank range and the procedure for its use.
12	Practical session	4	4	Lesson 5. Performing Preparatory Exercise No. 2 on the technique at night. 1. Practical performance of preparatory exercise No. 2. 2. Practicing the technique of stopping the vehicle in a specified place (obstacle No. 8) and turning between the posts (obstacle No. 7). 3. Driving rules. Equipment of the tank range and the procedure for its use.
13	Practical session	4	4	Lesson 6. Perform preparatory exercise No. 3 on the simulator. 1. Practical performance of preparatory exercise № 3 on the simulator. 2. Training in the implementation of standards for technical training №5 "Preparation for start-up and start-up of the heater". 3. Driving rules. Peculiarities of overcoming obstacles, models and structures provided for in preparatory exercise No. 3 on an IFV.
14	Practical session	4	4	Lesson 7. Performing preparatory exercise No. 3 on the technique in the afternoon. 1. Practical performance of preparatory exercise No. 3. 2. Putting the vehicle in and out of the trench (standard № 4).
Control measures		4	4	Credit
Total for the educational component		60	60	

BC 6 OPERATION OF ARMoured VEHICLES

name of the component

The overall objective of the educational programme component:

training of a tactical officer who knows the theoretical foundations of organising the proper operation of armoured weapons and equipment of units in peacetime and wartime, understands the processes of changing the state of the machine, has solid practical skills in organising maintenance, repair, evacuation and maintenance of equipment of marine units in combat readiness, is able to check and assess the condition of machines, conduct technical training sessions in the unit.

As a result of studying the discipline, trainees must:

know

the structure, tactical and technical characteristics and operation of weapons and military equipment of an airborne assault troops and Marine Infantry Corps unit;

the procedure for preparing weapons and military equipment of the unit for combat employment, the main ways to prevent breakdowns of weapons and military equipment and their elimination;

the procedure for the operation of regular 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;

the procedure for organising the transportation of weapons and military equipment by rail and other modes of transport, fastening of all types of military equipment during transportation.

be able to:

organise and ensure the correct use, maintenance and upkeep of standard armoured vehicles; personally supervise the work performed during the established types of vehicle maintenance, preparation of vehicles for overcoming water obstacles using spare parts and equipment of mobile and stationary maintenance equipment;

check and evaluate the technical condition of BTOT supervise the work of platoon and company personnel during maintenance;

independently master new models of equipment and weapons, their combat employment and operation;

ensure compliance with safety measures during the operation and restoration of weapons and equipment of the unit.

Organisational and methodological instructions:

The process of training in the operation of BTOT is conducted taking into account the basic principles of training (visibility, consistency, systematicity, individual approach, etc.).

The main types of training are group and practical sessions.

Group sessions study the issues of maintenance of combat vehicle units (systems) and other operational issues. It is advisable to conduct group sessions with the creation of problematic situations. Training sessions are held in specialised classrooms, which have appropriate material support. Presentation material, specialised classroom equipment and technical training aids are used in the course of the lessons.

The methodology of the class is chosen by the teacher independently, but it must ensure the effectiveness of the material assimilation by the cadets and the development of their creative analytical thinking, broad technical outlook, and the ability to work independently with technical literature.

Practical sessions are held to consolidate the knowledge gained by trainees in group sessions and independent work, to acquire the necessary skills and abilities, and to assess the trainees' knowledge of the topic. During practical sessions, trainees' knowledge is tested. It is conducted in oral or written form, by performing practical operational tasks, tests, etc.

Practical sessions with a training group of cadets are usually conducted by two teachers with the involvement of the technical staff of the department and the division of training groups into subgroups.

During practical sessions, along with acquiring practical skills in performing work on the BTOT, cadets should improve their skills in methodological training. To this end, they may be appointed as assistant classroom teachers and supervisors at training sites during practical training.

In order to develop technical erudition and to become more familiar with the rules of operation of armoured vehicles, cadets should be trained using maintenance equipment on regular equipment of the units.

Logistics support:

BTR-80 armoured personnel carrier;

Armoured personnel carrier BTR-4;

Infantry fighting vehicle BMP-2;

Infantry fighting vehicle YPR-765.

BTR-80 ARMoured PERSONNEL CARRIER;

models of BTR-80 components and assemblies;

BMP-2 training classroom;

PC (multimedia projector).

Information and methodological support:

1. Manual for the storage of armoured weapons and equipment. - K.: 1996. - 327 p.
2. Infantry fighting vehicle BMP-2 structure and basics of operation Lviv 2011, 644 pp.
3. Armoured personnel carrier BTR-80: Structure and operation basics Lviv 2012 644pp.
4. Sample instructions on the rules of compliance with safety requirements during the operation and repair of armoured weapons and equipment and armoured property.

Armoured vehicles and equipment...- K.: 2002.

5. Operation of armoured vehicles. Ch I. VA (Odesa). 2020.
6. Armoured weapons. VA (Odesa). 2015.
7. Driving of combat vehicles. IA (Odesa) - 2019.
8. Guidelines for overcoming water obstacles and land. Kyiv. 2019.
9. Methodological manual on planning, organising and conducting activities for the transfer of weapons and military equipment for summer (winter) operation in the Armed Forces of Ukraine.

Kyiv-2021.

10. Handbook on the Armoured Service of the Armed Forces of Ukraine 2013. 133 pp.

11. Methodological manual on the main issues of organising the daily activities of troops (forces) K. Varta 2003.-560 pp.
12. Methodological recommendations for the protection of troops (forces) and military facilities at permanent deployment points and in areas (places) of assigned
of assigned tasks. Kyiv: General Staff of the Armed Forces of Ukraine, 2014.
13. The Combat Statute of the Armed Forces of Ukraine "Transport Operations and Military Transportation". December 2020.
14. Training manual "Operation of Armoured Vehicles". Part 3. Odesa, VA, 2024.

Titles of topics and distribution of training time by type of training session

№ n/a	Types of sessions and assessment activities	Number of hours	Of which.		Topic title and learning points
			Contact hours	Independent work	
1	2	3	4	5	6
		4	4		Topic 1: Basic provisions for the operation of armoured weapons and equipment.
1.	Lecture	2	2		Lesson 1: Basic principles of operation. 1. The concept of "machine operation", life cycle of the machine. Stages of operation and types of operation. 2. The system of operation of BTOT. 3. Distribution of armoured weapons and equipment by groups of operation and annual rates of consumption of motor resources.
2.	Lecture	2	2		Lesson 2. Current trends and prospects for the development of the system of operation of armoured weapons and equipment. 1. The current state of the system of operation of armoured weapons and equipment. 2. Prospects for the development of the system of operation of armoured weapons and equipment
		10	10		Topic 2. Maintenance of APCS-80.
3.	Group session	2	2		Lesson 1: Types of maintenance of APCS-80. 1. Types of maintenance of APCS-80 2. Purpose and classification of maintenance equipment for armoured vehicles and equipment. 3. Spare parts and accessories, sets, composition and placement of spare parts on the vehicle.
4.	Practical session	4	4		Lesson 2: Inspection of the APCS-80. 1. The purpose, frequency, duration of the inspection. 2. The scope and sequence of inspection work. 3. Performing control inspection operations before leaving the park. 4. Performing control inspection operations at halts during the march.
5.	Practical session	4	4		Lesson 3: Daily maintenance of APCS-80. 1. Purpose, frequency, duration of daily maintenance. 2. The scope and sequence of daily maintenance of APCS-80. 3. Carrying out daily maintenance. 4. The use of park equipment when performing maintenance.
		2	2		Topic 3. Fuel and lubricants.
6.	Group session	2	2		Lesson 1: Classification of fuels and lubricants. 1. Classification of operational materials. 2. Fuel: operational requirements, basic properties, range, consumption rates.
		2	2		Topic 4. Parks and park equipment.
1	2	3	4		6

7.	Group session	2	2	<p>Lesson 1: Military unit park.</p> <ol style="list-style-type: none"> 1. Definition, types of parks and requirements for them. 2. Elements of a permanent park: their purpose, location and equipment. 3. Technological process of servicing machines in a permanent park. 4. Internal order in the park.
		10	10	Topic 5. Maintenance of BMP-2.
8.	Group session	2	2	<p>Lesson 1: Types of maintenance of BMP-2.</p> <ol style="list-style-type: none"> 1. Types of maintenance of BMP-2. 2. Purpose and classification of maintenance facilities for armoured vehicles and equipment. 3. Spare parts and accessories, sets, composition and placement of spare parts on the vehicle
9.	Practical session	4	4	<p>Lesson 2: Performing practical works of control inspection of BMP-2.</p> <ol style="list-style-type: none"> 1. Purpose, frequency, duration of the inspection. 2. Scope and sequence of inspection work 3. Performing control inspection operations before leaving the park. 4. Performing control inspection operations at halts during the march
10.	Practical session	4	4	<p>Lesson 3: Performing practical work on daily maintenance of BMP-2.</p> <ol style="list-style-type: none"> 1. Purpose, frequency, duration of daily maintenance. 2. The scope and sequence of daily maintenance of BMP-2. 3. Carrying out daily maintenance. 4. The use of park equipment in the performance of maintenance work.
		16	16	Topic 6. Operation of armoured weapons and equipment.
11.	Group session	2	2	<p>Lesson 1: Preparation of the BTOT for winter operation.</p> <ol style="list-style-type: none"> 1. Works performed on BMP-2 and BTR-80 in preparation for winter operation 2. Rules of operation of BMP-2 and APC in winter.
12.	Practical session	4	4	<p>Lesson 2: Preparation of equipment for operation in winter.</p> <ol style="list-style-type: none"> 1. Performing work on the preparation of BMP-2 for operation in winter. 2. Performing work on the preparation of BTR-80 for operation in winter. 3. Registration of completed works in the documentation for the machine.
13.	Group session	2	2	<p>Lesson 3: Preparation of BTR-80, BMP-2 for operation in the summer period.</p> <ol style="list-style-type: none"> 1. Works performed on BTR-80, BMP-2 in preparation for summer operation. 2. Rules of operation of BTR-80, BMP-2 in the summer.
14.	Practical session	4	4	<p>Lesson 4. Preparation of armoured weapons and equipment for operation in the summer.</p> <ol style="list-style-type: none"> 1. Performing work to prepare a vehicle for operation in the summer. 2. Registration of work performed in the documentation for the machine.
15.	Practical session	4	4	<p>Lesson 5. Mobile maintenance equipment.</p> <ol style="list-style-type: none"> 1. The use of MTO-80 in the maintenance and repair of regular weapons and equipment. 2. The use of TRM-A-80 for maintenance and repair of standard weapons and equipment. 3. Refuelling of vehicles with fuel, oil and grease using MZA-3.
		6	6	Topic 7. Preparing the vehicle for overcoming water obstacles.
<i>1</i>	<i>2</i>	<i>3</i>	<i>4</i>	<i>6</i>
16.	Group session	2	2	Lesson 1: Preparation of BTR-80, BMP-2 for overcoming water obstacles.

				<ol style="list-style-type: none"> 1. Requirements for the technical condition of vehicles when overcoming water obstacles. 2. The scope and procedure of work performed on the machine in preparation for overcoming water obstacles. 3. The procedure for checking the readiness of machines to overcome water obstacles. 4. Preparation of the machine for movement after overcoming the water obstacle.
17.	Practical session	4	4	<p>Lesson 2: Practical performance of works on preparation of vehicles for floating.</p> <ol style="list-style-type: none"> 1. Checking the tightness of machines. 2. Checking the readiness of machines to float.
		6	6	Topic 8: Evacuation of vehicles.
18.	Group session	2	2	<p>Lesson 1: Basic provisions for evacuation.</p> <ol style="list-style-type: none"> 1. Types of vehicle jams and their classification. 2. Means of evacuation of battalion vehicles and their technical characteristics. 3. Use of technical means of evacuation. 4. Features of evacuation of vehicles during combat operations.
19.	Practical session	4	4	<p>Lesson 2: Practical performance of evacuation and securing of vehicles.</p> <ol style="list-style-type: none"> 1. Self-pulling of the machine with a log and winch. 2. Pulling machines with a poly-link. 3. Towing machines with cables and a rigid hitch. 4. Installing machines on platforms and securing them in various ways
Control measures		4	4	Differential credit
Total for the educational component		60	60	

