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COMBINED ARMS CENTER AND FORT LEAVENWORTH

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23 SEP 1981

ATZL-TDP-D

SUBJECT: Combined Arms Sufficiency Study

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1. The attached Combined Arms Sufficiency Study ~~PG REGISTER~~ was prepared at the direction of Commander, Combined Arms Center with the cooperation of TRADOC school commandants. The study is a comparative review of the sufficiency of combined arms instruction in officer basic and advanced courses in all TRADOC schools. It contains a complete verified list of combined arms subjects, and includes an analysis of sufficiency levels identified for these subjects.

2. An action plan addressing the study findings is currently being prepared and will be provided in the near future.

FOR THE COMMANDER: •

Donald Fussen
RICHARD L. GIBSON
MAJ, GS
Asst Adjutant General

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as

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ATZL-TDP-D
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COMBINED ARMS
SUFFICIENCY STUDY

COMBINED ARMS SUFFICIENCY STUDY

GENERAL

1. Combined Arms training is at the core of an officer's education. The Combined Arms Sufficiency Study was initiated to determine in a systematic fashion which subjects should be identified as combined arms subjects and what constitutes a sufficient level of proficiency in these combined arms subjects for lieutenants and captains in the U.S. Army. For the purposes of this study combined arms sufficiency was defined as the knowledge required by the combat, combat support, and combat service support officer that enables him to work effectively with his fellow officers on the modern battlefield. The study was conducted between May and August 1981 at the direction of the Commander, Combined Arms Center.
2. Participants are listed at Annex A. Methodology is described at Annex F. The study was designed to systematically assess the status of combined arms training at TRADOC schools by obtaining the collective judgment of the branch school commandants on what subjects should be on a combined arms subject list and what constitutes a sufficient level of instruction for each subject. This approach did not allow the use of rigorous statistical techniques for data analysis; nevertheless, the use of a few simple statistical methods and close inspection of the results allowed us to make several useful, if somewhat subjective, observations about the current state of combined arms training.
3. The data collected are consolidated at Annex B, with the exception of those concerning pre-commissioning. The responses on pre-commissioning are discussed in Annex H.
4. As it now stands, this study represents a first step towards providing a clear focus on the combined arms training issue, and, in essence, the mission of the Combined Arms Center. The results of the study are not intended to provide exact, definitive guidance for all commandants in all circumstances. Rather, the intent is to provide some direction to the search for sufficient combined arms instruction for officers. It is clear from the results of the study that there is interaction between combined arms sufficiency and branch sufficiency and that this interaction occurs on both objective and subjective levels. This study emphasizes the importance of professional subjective judgement, and does so in a manner that will give it greater credibility in the overall development of officer training programs. We view sufficiency as a moving target which tends to defy precise measurement. We have settled for a somewhat subjective snapshot of where we are at this moment in time, realizing that in many cases the very act of taking the photo changes what we are looking at. We believe that sufficiency should become even more dynamic, with even more interaction between the proponent of a subject and the service schools that are teaching the subject. This study is intended to facilitate such interaction. In our conclusions we have not attempted to state specific recommendations for each problem cited, for no single answer is applicable.

What we have attempted to do is illuminate the whole spectrum of combined arms subjects; provide an evolving tool for the on-going management of combined arms subjects; and define some levels of sufficiency to guide TRADOC school commandants to a more standardized and balanced treatment of critical combined arms subjects.

FINDINGS

5. There appears to be general consensus that the subjects selected for the study are, in fact, the combined arms subjects which schools should address. At Annex C is an analysis of the combined arms subjects list which shows the percentage of respondents that rated officers' requirements for each subject at the 1 (fully proficient) or 2 (working knowledge) level.

6. As noted earlier, our analysis was done primarily by inspecting the data. We found we were able to group assessments of the subjects into three broad categories: Sufficient (coverage considered appropriate), Insufficient (subjects judged to be insufficiently covered in existing POI), and Not Determined (significant disparities in judgement on sufficiency).

a. Within the Sufficient category are grouped subjects which received both high and low sufficiency level ratings. In general, coverage of the subjects appears adequate. There may be, however, instances where individual schools are out of the general pattern either in their view of what constitutes sufficiency or their current coverage of the subject. These will be reviewed with the affected schools on an individual basis. A list of the subjects in this category is at Appendix I to Annex D.

b. In the Insufficient category are subjects where the sufficiency levels indicate inadequate attention is being given these subjects at a number of schools. Re-examination of current programs of instruction is warranted. Proponents for these subjects should review the adequacy of support to the field and coordinate with the field to improve coverage. Subjects we judge to be insufficiently covered are:

(1) Threat Background. On average, less than half the schools rate this subject as requiring a sufficiency level of 1 (fully proficient) or 2 (working knowledge) at the lieutenant level. Because of the way many schools organize their threat instruction, this is a difficult subject to assign a specific number of hours. Nevertheless, there appears to be a need for more standardized coverage of threat subjects at both lieutenant and captain level.

(2) Tactical Intelligence. The study showed a broad perception that this was not an important subject. Because virtually every officer on the battlefield participates in the collection and dissemination of intelligence, this subject deserves more attention.

(3) Patrolling. Several schools rated patrolling low, and it is missing from several POIs. Patrolling in itself is not a skill in which every officer has a need to be fully proficient. However, as a medium through which some of the fundamentals of leadership, land navigation and tactical intelligence may be learned, patrolling training is very effective. Schools that have deleted patrolling from the POIs should review its utility in this light.

(4) Military Operations in Urban Terrain. Urban terrain provides some uniquely difficult challenges to everyone on the battlefield. This may be a subject area that should be integrated throughout a school's combined arms instruction. Although the sufficiency levels reported appear appropriate, the hours, in many cases, seem low.

(5) Army Aviation. The general range of responses show a lack of attention to this subject. In this subject area explicit guidance is available from the chain of command and the proponent. All branches are users of aviation assets and all branches need a basic familiarity with this key actor on the battlefield.

(6) Engineer Operations. The responses in this subject area seem to reflect a significant misunderstanding of the role engineers play in maintaining mobility and enhancing survivability throughout the battle area. Sufficiency levels, especially for captains, need to be upgraded and POIs adjusted accordingly.

(7) Electronic Warfare. This is an area that requires careful review, and perhaps more adequate guidance from the proponent. It is also an area that is already receiving some attention from the schools. Based on the responses to this study, however, a consensus on just what is appropriate in current POIs is lacking.

(8) Training Management. There has been rather explicit guidance to the field for this subject. There is, nevertheless, a wide variation reported on hours of instruction needed to achieve sufficiency. This indicates a need for the proponent to review this area, and a need for the schools to review their POIs.

(9) A consolidated list of subjects judged to be Insufficient is at Appendix 2 to Annex D.

c. In the Not Determined category are those subjects which, though the schools may agree on the appropriate level of sufficiency, show a wide

variation in judgments on how many hours are needed to reach the recommended sufficiency level. We are unable to determine, based on the study data, whether coverage is sufficient or not. One cause for disparity of responses in these subject areas appears to be problems with subject definition. Thus, there is an apparent need to obtain a clearer definition of the subject area from the proponent. Examples of these problem subjects are Leadership, Defense, and Combat Service Support. These are discussed in detail at Annex E. A complete list of the subjects is at Appendix 3 to Annex D.

7. Our analysis revealed another aspect of combined arms training that deserves further consideration: There are a number of subjects which were generally rated low for lieutenants and high for captains. It appears that training at the lieutenant level on some combined arms subjects is being deferred because of a perceived need to have an officer achieve, in the formal training time available, maximum possible technical competence in higher priority, branch-unique skills. Examination of the results of the officer job/task analysis reinforces this viewpoint, since that process tends to highlight skills needed immediately following the officer basic course. At Appendix 1 to Annex C is a list of subjects that fall into this category. In some cases deferral may be entirely appropriate; however, this listing deserves consideration as training strategies continue to be refined, especially at schools where these subjects overlap with those identified as receiving insufficient emphasis.

8. At Appendix 2 to Annex C, is a list of subjects generally rated low for both captains and lieutenants. The implication is that training in these subjects is now limited to those officers who have a need to know, deferred to the CGSC level, or conducted on the job.

DISCUSSION

9. The subjective approach taken by this study was valuable because it allowed the judgment of senior officers and subject matter experts to receive due weight on an equal footing with training development data. The establishment of a combined arms subject list on which there is reasonable consensus, and the rating of contents of that list in the context of the concept of sufficiency provided a fresh perspective, along with some definition of the issue of what combined arms training ought to be. It is obviously difficult, however, to separate this subjective rating effort from the practical constraints on available resources. For example, proponents recommended a total of almost 700 hours for CSS lieutenants in these subjects. Obviously such time is not available to the trainer. Thus, when reviewing the study data, we believe it will be more useful to use the hours

associated with a particular sufficiency level as a measure of the subject's complexity than to view these hours in terms of resource demands.

10. It is possible to think about the teaching of combined arms sufficiency in terms of performance objectives. For example, several schools have one or more extensive practical exercises that lead students through the commander's estimate to the production of a complete operations order with overlays and annexes. To meet this requirement a rather sound grasp (for the successful student) of the fundamentals of combined arms operation is required.

11. As the study progressed it became obvious that there were different approaches to teaching combined arms subjects in each of the schools, and that there were ideas that should be shared between schools, and by the proponents.

a. One traditional method of keeping service school faculty members alert to ideas and changes has been for them to periodically go "home" and receive guidance from their branch chiefs. For example, infantrymen teaching at other schools should visit Fort Benning periodically; AG officers should visit Fort Benjamin Harrison; the MI officers should go home to Fort Huachuca; etc. This is a way to keep combined arms coverage current and appropriate. Clearly, it is the signal officer at Fort Knox, kept current by his branch, who has the best opportunity to see that his branch's view of the combined arms picture is part of the Armor School curriculum-development process. This method is effective and should be encouraged.

b. CATRADA, in its role as a training integrator, can perform a useful function in this area by insuring communications between the schools. Additionally, there appears to be potential for using technology to develop and communicate the fundamentals of combined arms operations to both instructors and students. This possibility will be examined in more depth as review of combined arms sufficiency continues.

12. This study can be cross-linked with Officer Job/Task Analysis (OJTA). If this subject list is valid, and we think it is, the tasks identified through OJTA should sort out under the subjects selected for this study. If that does not happen, there may be problems with either this list, the OJTA task list, or both; although we must re-emphasize that the results of this study are weighted by the opinions of responsible senior officers currently serving in TRADOC, whereas OJTA tends to be weighted by the view points of immediate supervisors in the field. A comparison of the pre-commissioning data (Annex H) to the Military Qualification Standards I list tends to show the two viewpoints to be complementary. We believe that the findings of this study can assist the setting of priorities to train OJTA-identified tasks, and may be useful to the site-selection process.

CONCLUSIONS

13. The combined arms subjects list used in this study was coordinated with all school commandants. Though we did not obtain unequivocal, universal consensus that each subject listed, and only those subjects, constitute the combined arms subjects, it is clear that the present list is as near to a consensus statement of what the combined arms subjects are as is possible at this time. It should be accepted as such by all commandants and used as the baseline list of combined arms subjects to be considered during future officer POI development and revision. At the same time it is recognized that the list is dynamic, subject to change and adjustment as combined arms training requirements evolve.

14. The data shown in Annex B, as discussed in this report, provide the commandants a useful tool in the development of POI. We recognize that despite the objective precision possible through the OJTA process, many facets of officer training will, to a substantial degree, continue to require the subjective judgment of the commandant. These data will provide him a framework for more balanced decisionmaking and, if applied to the training development process, should bring a certain level of standardization to combined arms coverage throughout TRADOC schools.

15. The study has had an important corollary effect on combined arms training by causing commandants to do some self analysis of their own branches' coverage of combined arms subjects. Review of the results of the study should promote comparative examination of combined arms coverage in other schools, which in turn can lead to the exchange of ideas about how combined arms training can be improved.

16. The grouping of combined arms subject coverage under categories of sufficiency (Sufficient, Insufficient, Not Determined) will allow commandants to concentrate efforts on "fixing what's broke" without at the same time diffusing effort on unnecessary reviews and revisions.

a. Subjects in the Insufficient category deserve careful review by all schools to verify adequacy of subject coverage and to take corrective actions where indicated. Proponents in particular should reexamine the adequacy of guidance to the field and take steps to promote improved subject coverage.

b. Subjects in the Sufficient and Not Determined categories deserve review by each commandant to assure that present coverage is valid and as complete as required.

17. The role of the subject proponent probably needs clarification and emphasis. Proponents could make a major contribution to this effort by providing mutually understood definitions of the specific subjects, by re-examining their own input in view of the data available in this study, and by reinforcing lines of communications to the teachers of their subjects in

the field. Most of the near-term future actions on combined arms sufficiency will require proponent involvement. This is discussed in more detail at Annex E.

18. A major benefit of this study, and the process it has initiated, is clarification of the role of the Combined Arms Center within the TRADOC school system. For the first time we have a reference document that describes what officer combined arms training looks like and some of its strengths and weaknesses. We are now in the process of developing an action plan as a follow-on to this study. The plan is expected to emphasize those actions that should be taken to improve combined arms instruction in officer training TRADOC-wide.

19. We recognize that we have identified more questions than answers. We will in the future be examining in more detail methods to resolve discrepancies, improve weaknesses, and reinforce strengths that we have noted.

ANNEXES

A - Study Participants

B - Data

C - Overall Sufficiency Level of Subjects

Appendix 1 - Subjects Rated Low for Lieutenants and High for Captains

Appendix 2 - Subjects Rated Low for Lieutenants and Captains

D - Grouping of Subjects by Category

Appendix 1 - Sufficient

Appendix 2 - Insufficient

Appendix 3 - Not Determined

E - The Role of Proponents in Combined Arms Sufficiency

F - Methodology

Appendix 1 - Proponency Evaluation Form

Appendix 2 - Branch Evaluation Form

G - Consolidated Subject List

H - Pre-Commissioning Data

COMBINED ARMS SUFFICIENCY STUDY

ANNEX A

STUDY PARTICIPANTS

U.S. Army Academy of Health Sciences
U.S. Army Air Defense Center and School
U.S. Army Armor Center and School
U.S. Army Aviation Center and School
U.S. Army Chemical School
U.S. Army Combined Arms Center
U.S. Army Engineer School
U.S. Army Field Artillery School
U.S. Army Infantry School
U.S. Army Institute for Military Assistance
U.S. Army Intelligence Center and School
U.S. Army Judge Advocate General's School
U.S. Army Logistics Center
U.S. Army Military Police School
U.S. Army Missile and Munitions Center and School
U.S. Army Ordnance Center and School
U.S. Army Quartermaster School
U.S. Army Signal Center
U.S. Army Soldier Support Center
U.S. Army Transportation School

COMBINED ARMS SUFFICIENCY STUDY

ANNEX B

DATA

1. The data for lieutenants and captains are displayed in this annex. Data for pre-commissioning are at Annex H. Methodology and formats used for data collection are at Annex F.
2. For each subject, data are displayed for lieutenants and captains.
 - a. SL: Sufficiency Level.
 - 1- Officer must be fully proficient in subject.
 - 2- Officer must have working knowledge of subject.
 - 3- Officer must be familiar with subject.
 - 4- No training required.
 - b. HRS (S): Number of hours of instruction equated to sufficiency level.
 - c. HRS (P): Number of hours currently in POI.
3. Branch schools responses are displayed vertically under an abbreviated title. The MM column reports data for courses for specialities 73 (Missile Material Management) and 75 (Munitions Material Management). The MS Column is a consolidated report for Army Medical Department officers. In the AV column warrant officer training is reported. Note j applies to lieutenants data and note p applies to captains data. Aviation data was not included in the analyses at Annexes C and D.
4. Proponents' responses are grouped according to recommendations for combat arms, combat support, and combat service support. Proponent(s) for each subject are shown on the right.
5. A consolidated listing of subjects and proponents is at Annex G.

COMBINED ARMS SUFFICIENCY STUDY

SUBJECTS

BRANCH SCHOOLS

PROPORTION

1. Doctrinal Foundation:

		IN	AR	FA	AD	EN	SC	MP	MI	CM	OD	MM	AG	FI	QM	TC	MS	AV	AP	CA	CS	CSS	
																							LT
a. Mission and Role of the US Army																							
	LT	2	2	3	2	2	2	2	1	2	3	2	2	2	1	2	2	2	2	3/3	1	1	1
	SL	1	4	.5	3	1	4	4	0	2	3	2	2	2	2	2.5	1	2/2	2/2	2	2	2	
	HR(S)	1	2	0	2	1	4	2	0	1	4	2	1	1	0	1	1	2/0					
	HR(P)	1	2	0	2	1	4	2	0	1	4	2	1	1	0	1	1						
b. Principles of War																							
	LT	3	2	3	1	2	3	3	1	2	3	1	2	2	2	2	2	2	4/3	1	2	2	
	SL	1	2	.5	2	1	0	2	0	2	2	1	1	1	2	4	2	0/4	0/4	2	2	2	
	HR(S)	1	0	0	2	0	0	1	0	1	2	1	0	0	2	1	1	0/1	0/1				
	HR(P)	0	0	0	2	0	0	1	0	1	2	1	0	0	2	1	1						
c. US Army Operational Concepts (Air-Land Battle)																							
(1) Enemy Air Defenses																							
	LT	4	3	1	3	4	4	3	4	2	3	1	3	3	4	2	3	4/2	3	3	3	4	
	SL	0	1	.2	2	0	0	1	0	1	.5	2	1	0	1	2	0	0/1	0/3	2	0	0	
	HR(S)	0	1	.2	2	0	0	.5	0	.2	0	2	1	0	1	2	0	0/1	0/3				
	HR(P)	0	1	.2	2	0	0	.5	0	.2	0	2	1	0	1	2	0	0/1	0/3				
(2) Suppression of Enemy Air Defenses																							
	LT	4	2	1	3	4	4	3	4	2	3	1	4	4	3	4	4	4/2	2	4	4	4	
	SL	0	1	.5	0	0	0	.5	0	1	.2	0	0	0	1	0	0/1	0/3	2	0	0	0	
	HR(S)	0	1	.5	0	0	0	.5	0	1	.2	0	0	0	1	0	0/1	0/3					
	HR(P)	0	1	.5	0	0	0	.5	0	1	.2	0	0	0	1	0	0/1	0/3					
(3) Close Air Support																							
	LT	3	2	1	3	3	3	3	2	2	3	1	3	3	2	4	4	4/2	1	3	3	3	
	SL	1	4	11	1	2	2	3	5	1	.5	0	1	1	1	3	0	0/4	4	2	2	2	
	HR(S)	1	2	10	0	0	5	3	1	.5	0	0	0	0	0	0	0/1	0/4					
	HR(P)	1	2	10	0	0	5	3	1	.5	0	0	0	0	0	0	0/1	0/4					
c. US Army Operational Concepts (Air-Land Battle)																							
(1) Enemy Air Defenses																							
	LT	4	3	1	3	4	4	3	4	2	3	1	4	4	3	4	4	4/2	2	4	4	4	
	SL	0	1	.2	2	0	0	1	0	1	.5	2	1	0	1	2	0	0/1	0/3	2	0	0	
	HR(S)	0	1	.2	2	0	0	.5	0	.2	0	2	1	0	1	2	0	0/1	0/3				
	HR(P)	0	1	.2	2	0	0	.5	0	.2	0	2	1	0	1	2	0	0/1	0/3				
(2) Suppression of Enemy Air Defenses																							
	LT	4	2	1	3	4	4	3	4	2	3	1	4	4	3	4	4	4/2	2	4	4	4	
	SL	0	1	.5	0	0	0	.5	0	1	.2	0	0	0	1	0	0/1	0/3	2	0	0	0	
	HR(S)	0	1	.5	0	0	0	.5	0	1	.2	0	0	0	1	0	0/1	0/3					
	HR(P)	0	1	.5	0	0	0	.5	0	1	.2	0	0	0	1	0	0/1	0/3					
(3) Close Air Support																							
	LT	3	2	1	3	3	3	3	2	2	3	1	3	3	2	4	4	4/2	1	3	3	3	
	SL	1	4	11	1	2	2	3	5	1	.5	0	1	1	1	3	0	0/4	4	2	2	2	
	HR(S)	1	2	10	0	0	5	3	1	.5	0	0	0	0	0	0	0/1	0/4					
	HR(P)	1	2	10	0	0	5	3	1	.5	0	0	0	0	0	0	0/1	0/4					

SUBJECTS

BRANCH SCHOOLS

PROFICIENT

	IN	AR	FA	AD	EN	SC	MP	MI	OM	OD	NM ¹	AG	FI	QM	TC	MS	AWP ²	CA	CS	CSS	
																					LT
(4) Airspace Management	LT	4	3	1	3	4	3	4	4	2	3	4	4	4	3	3	4	4/3	2	4	4
	SL	0	1	.1	1	0	5	0	0	0	0	0	0	0	0	0	0	0/4	4	0	0
	HR(S)	0	.5	.1	1	0	0	0	0	0	0	0	0	0	0	0	0	0/0			
CPT	SL	3	2	1	2	4	3	4	3	1	3	4	4	3	3	3	3/4	2	3	3	
	HR(S)	1	2	4.2	2	0	0	0	3	2	0	0	0	0	1	1	1/0	4	4	4	
	HR(P)	0	.5	4.2	2	0	0	0	0	.1	0	0	0	0	0	0	0/0				
(5) Protection of Sensors and Deep Attack Systems	LT	4	4	4	3	4	4	4	3	3	3	4	4	3	3	4	4/3	3	4	4	
	SL	0	0	0	1	0	0	0	2	1	.5	0	0	0	0	0	0/2	1	0	0	
	HR(S)	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0/0				
CPT	SL	3	3	3	3	3	4	3	1	2	3	4	4	3	3	4	3/4	3	2	2	
	HR(S)	1	1	.4	1	1	0	1	25	1	.5	0	0	0	1	0	1/0	2	4	4	
	HR(P)	0	5	.4	1	.3	0	0	25	0	0	0	0	0	.5	0	1/0				
(6) Extended Battlefield	LT	4	3	4	2	3	3	3	2	2	3	3	2	3	3	4	4/2	3	3	3	
	SL	0	1	0	3	1	1	2	10	3	.3	1	3	2	2	0	0/2	2	1	1	
	HR(S)	0	0	0	3	0	0	2	10	0	0	0	0	0	1	0	0/3				
CPT	SL	3	2	3	2	2	3	2	1	1	3	3	2	2	2	3	2/3	1	3	3	
	HR(S)	1	1	1.7	2	2	2	4	3	4	.5	1	3	3	3	2/1	8	2	2		
	HR(P)	0	0	1.7	1	2	1	4	2	2	1	0	0	0	0	1/3					
d. Underlying Fundamentals of Modern Combat	LT	3	2	3	2	2	3	3	2	2	2	2	2	3	3	2	4/2	1	1	1	
	SL	1	2	1.7	1	2	2	2	10	3	8	1	3	4	4	3	0/5	8	4	4	
	HR(S)	1	0	0	1	1	3	1	10	3	4	1	0	0	0	2	0/2				
CPT	SL	2	1	3	1	2	2	1	1	2	3	2	2	2	2	2	2/3	1	1	1	
	HR(S)	2	2	1.7	2	2	2	6	10	4	1	2	3	3	3	2/2	8	4	4		
	HR(P)	2	0 ^f	1.7	2	1	0	3	10	1	.5	2	3	3	4	3	0/2				
2. Threat Background	a. Mission and Role of the Armed Forces	LT	3	2	1	2	3	3	3	2	2	2	2	2	3	3	4/3	2	2	2	
		SL	1	1	.8	.5	1	.5	1	1	2	2	5	1	1	1	0/1	.5	.5	.5	
CPT	SL	3	1	1	2	3	3	2	1	2	2 th	2	3	3	2	2	3	1	1	1	
	HR(S)	2	1	16	1	2	2	2	2	3	8	2	3	1	2	2	2	1	1	1	
	HR(P)	2	1	.2	.5	1	2	1	2	2	.5	0	4	1	3	1	2				

3
1
2

SUBJECTS

BRANCH SCHOOLS

PROPORTION

b. Organizations and Equipment

	IN	AR	FA	AU	EN	SC	MP	MI	OM	OU	NM ¹	AG	FI	QM	TC	MS	MS	Av ¹ p	CA	CS	CSS	
LT	3	2	1	2	3	3	3	3	2	2		2	3	2	2	3	3	4/3	1	1	1	CACDA
SL	3	2	1	2	3	3	3	3	2	2		2	3	2	2	3	3	4/3	1	1	1	
HRS(S)	1	4	8	2	2	.5	2	1	1	1		0	1	3	2	1	1	0/6	2	2	2	
HRS(P)	1	3	2	.5	3	.3	1	0	.5	2		0	0	1	1	.3	0/6					

c. Offensive Operations

	IN	AR	FA	AU	EN	SC	MP	MI	OM	OU	NM ¹	AG	FI	QM	TC	MS	MS	Av ¹ p	CA	CS	CSS	
LT	3	2	1	2	2	3	3	3	2	3		3	3	2	2	3	3	4/2	1	1	2	CACDA
SL	3	2	1	2	2	3	3	3	2	3		3	3	2	2	3	3	4/2	1	1	2	
HRS(S)	1	2	8	2	2	.5	1	1	3	1		1	1	4	2	1	0/2	0/2	2	2	1	
HRS(P)	1	1	1.7	.5	1	.3	.5	0	.5	.5		0	0	1	1	.3	0/1.5					

d. Defensive Operations

	IN	AR	FA	AU	EN	SC	MP	MI	OM	OU	NM ¹	AG	FI	QM	TC	MS	MS	Av ¹ p	CA	CS	CSS	
LT	3	2	1	2	2	3	3	3	2	3		3	3	2	2	3	3	4/2	2	2	3	CACDA
SL	3	2	1	2	2	3	3	3	2	3		3	3	2	2	3	3	4/2	2	2	3	
HRS(S)	1	2	8	2	2	.5	1	1	3	1		1	1	4	2	1	0/2	0/2	.5	.5	.5	
HRS(P)	1	0	1.7	.5	1	.3	.5	0	.5	.5		0	0	1	1	.3	0/2					

e. Combat Support (Including NBC & Radio Electronic Combat (REC))

	IN	AR	FA	AU	EN	SC	MP	MI	OM	OU	NM ¹	AG	FI	QM	TC	MS	MS	Av ¹ p	CA	CS	CSS	
LT	3	2	1	2	3	3	3	3	2	3		3	4	2	3	4	4	4/3	2	2	2	CACDA
SL	3	2	1	2	3	3	3	3	2	3		3	4	2	3	4	4	4/3	2	2	2	
HRS(S)	1	10	8	1	1	3	3	1	4	1		1	0	3	2	0	0/2	0/2	1	1	1	
HRS(P)	1	7	1	1	1	3	3	0	.5	.5		0	0	1	1	0	0/1	0/1				

f. Special Operations

	IN	AR	FA	AU	EN	SC	MP	MI	OM	OU	NM ¹	AG	FI	QM	TC	MS	MS	Av ¹ p	CA	CS	CSS	
LT	3	2	1	2	3	3	3	3	2	3		3	3	2	2	3	3	4/3	2	2	2	CACDA
SL	3	2	1	2	3	3	3	3	2	3		3	3	2	2	3	3	4/3	2	2	2	
HRS(S)	1	2	8	1	1	.5	2	1	1	1		1	1	1	1	0	0/1	0/1	1	1	1	
HRS(P)	1	0	0	0	0	0	1	0	0	0		0	0	1	1	0	0/0	0/0				

	IN	AR	FA	AU	EN	SC	MP	MI	OM	OU	NM ¹	AG	FI	QM	TC	MS	MS	Av ¹ p	CA	CS	CSS	
CPT	3	2	1	2	3	3	3	3	2	3		3	3	2	2	3	3	3/3	1	1	1	CACDA
SL	3	2	1	2	3	3	3	3	2	3		3	3	2	2	3	3	3/3	1	1	1	
HRS(S)	4	2	16	1	2	.5	4	12	1	1		1	1	2	2	1	1/2	1/2	2	2	2	
HRS(P)	4	2	.2	0	.5	0	1	12	0	1		0	0	1	1	0	0/2	0/2				

SUBJECTS

BRANCH SCHOOLS

PROFICIENT

3. Organizational Basics:

a. Leadership

LT	BRANCH SCHOOLS										PROFICIENT									
	IN	AR	FA	AU	EN	SC	MP	MI	OM	UD	MM ¹	AG	FI	QM	TC	MS	AW ²	CA	CS	CSS
SL	1	2	1	2	1	1	2	1	2	2	2 ^h	1	2	1	2	2	2/2	1	1	1
HRS(S)	40	24	7	28	25	40	80	34	20	29	100	40	40	34	10	10	73/35	30	30	30
HRS(P)	34	21	3	28	32	40	24	34	20	19	100	30	12	31	5	5	73/10			

CPT	BRANCH SCHOOLS										PROFICIENT									
	IN	AR	FA	AU	EN	SC	MP	MI	OM	UD	MM ¹	AG	FI	QM	TC	MS	AW ²	CA	CS	CSS
SL	1	1	1	1	1	1	1	1	1	1	1 ^h	1	1	1	2	1	2/2	1	1	1
HRS(S)	80	40	55	24	25	36	80	30	8	32	100	40	16	46	5	40	65/5	50	50	50
HRS(P)	45	40	32	20	28	36	32	30	24	28		71	41	45	5	40	65/5			

b. Organization and Preparation for Combat

LT	BRANCH SCHOOLS										PROFICIENT									
	IN	AR	FA	AU	EN	SC	MP	MI	OM	UD	MM ¹	AG	FI	QM	TC	MS	AW ²	CA	CS	CSS
SL	2	2	3	2	2	2	2	2	2	2	2	2	3	2	2	3	3/2	2/2	2/2	2/2
HRS(S)	4	24	1	8	2	21	10	4	6	2	2	2	1	14	6	2	1/8	4/24	4/f	4/f
HRS(P)	2	24	0	5	2	21	6	4	3	.5		2	2	8	1	2	1/2			

c. Command and Control and Communications (C³)

(1) Staff Procedures in Combat

LT	BRANCH SCHOOLS										PROFICIENT									
	IN	AR	FA	AU	EN	SC	MP	MI	OM	UD	MM ¹	AG	FI	QM	TC	MS	AW ²	CA	CS	CSS
SL	3	3	3	2	2	3	2	3	2	2	2	2	3	2	2	3	3/2	2	2	2
HRS(S)	3	8	1.5	4	2	7	4	6	4	2	2	6	6	9	3	2	1/5	10	10	10
HRS(P)	2	2	0	4	0	7	1	6	1	1		2	2	1	1	2	1/0			

CPT	BRANCH SCHOOLS										PROFICIENT									
	IN	AR	FA	AU	EN	SC	MP	MI	OM	UD	MM ¹	AG	FI	QM	TC	MS	AW ²	CA	CS	CSS
SL	2	2	2	2	2	2	1	1	1	1	1	1	2	2	2	2	2/2	1	1	1
HRS(S)	16	6	59	2	6	2	6	10	8	5		4	16	17	4	3	7/10	15	15	15
HRS(P)	20	6	59	2	13	0	1	10	30	5		0	0	1	1	2	7/10			

SUBJECTS

BRANCH SCHOOLS

PROPORTION

	IN	AR	FA	AD	EN	SC	MP	MI	CM	UD	MW ¹	AG	F	I	QM	TC	MS	AWP	CA	CS	CSS		
(2) Plans, Orders, Graphics, Records, and Reports	LT	SL	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	CGSC
		HRS(S)	10	20	1.5	4	10	16	5	10	4	1	8	9	5	3	3	1/10	12	12	12		
		HRS(P)	6	20	2	4	2	8	3	2	2	0	0	0	4	3	1/10						

(3) Decision Making	LT	SL	2	2	3	2	2	2	2	2	2	1	3	1	2	1	2/3	2	2	2	2	CGSC
		HRS(S)	6	4	1.5	4	2	4	2	3	2	4	12	5	2	2/4	2/4	12	12	12	12	
		HRS(P)	6	4	0	4	1	2	2	1	1	0	0	0	1	1	2/4					

(4) Command and Control Communications (C2)	LT	SL	2	2	1	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	CGSC
		HRS(S)	12	4	2	6	4	2	3	3	1	4	8	13	5	2	2/2	8	8	8	8	
		HRS(P)	12	4	0	4	0	2	3	5	4	18	12	5	3	1	0/1					

4. Tactical Basics:

a. Battlefield Movement (Marches, Maneuver)	LT	SL	1	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	IN/AR
		HRS(S)	40	8	.9	2	6	4b	12	2	4	3	3	3	3.5	1	0/12	40/8	40/8	40/8	2/3	
		HRS(P)	24	8	2	1	3	0	9	2	4	0	0	0	1	0	0/12					

b. Tactical Intelligence	LT	SL	2	2	3	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	MI
		HRS(S)	6	2	1.7	2	1	0	2	3	1	1	1	3	3	1	0/2	3	3	3	3	
		HRS(P)	4	2	1.7	4	1	0	1	1	0	0	0	0	1	1	0/2					

CPT	SL	1	1	2	1	2	3	1	1	2	2h	1	2	2	1	2	2/2	1/1	1/2	2/2	IN/AR
	HRS(S)	30	10	4	8	12	0	16	2	4	5	4	4	7	4.5	1	12/4	20/10	20/8	10/8	
	HRS(P)	20	10	8	4	24	0	8	2	1	5	0	0	1	4	0	12/8				

CPT	SL	2	2	1	2	3	3	2	1	2	2	3	2	1	2	2	2	2	2	2	2	MI
	HRS(S)	20	2	17	4	1	1	6	25	3	1	1	5	4	1	2	2	3	3	3	4	
	HRS(P)	20	2	8	4	7	0	3	25	5	.5	0	0	1	3	0	2					

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BRANCH SCHOOLS

PROPONENT

5. Offensive Operations:

	IN	AR	FA	AD	EN	SC	MP	MI	OM	OD	MW ¹	AG	F1	QM	IC	MS	AW ²	CA	CS	CSS	
a. Concepts and Fundamentals																					
LT	SL	1	2	1 ^h	2	2	3	3	3	2	3	3 ^h	1	3	2	2	3	4/3	1/2	1/2	2/2
	HRS(S)	12	10	15	1	2	1	4	5	3	1	5	2	2	4	4.5	1	0/2	12/10	12/4	6/3
	HRS(P)	8	8	10	1	1	1	4	6	3	1	5	0	0	0	3	1	0/.2			
CPT	SL	1	1	1 ^h	2	2	3	2	1	1	1	2 ^h	1	3	2	2	3	2	1/1	1/2	2/2
	HRS(S)	8	6	22	2	4	5	6	3	4	5	5	4	2	5	2.5	1	1	8/6	8/6	4/4
	HRS(P)	8	6	16	2	3	0	6	3	10	5	0	0	0	3	3	1	.3			
b. Movement to Contact																					
LT	SL	1	2		3	3	3	2	2	2	3	3	3	3	2	2	3	4/3	1/2	1/3	3/3
	HRS(S)	12	10		1	1	0	2	3	.5	.5	0	1	2	2	.2	0/2	12/10	12/10	12/f	2/f
	HRS(P)	8	8		1	0	1	1	.2	.5	.5	0	0	0	3	0	0/2				
CPT	SL	1	1		2	3	3	1	1	2	3	3	3	2	2	3	2	1/1	1/1	1/2	3/3
	HRS(S)	8	4		2	2	2	4	3	1	.5	0	1	4	1.5	.3	1	8/4	8/f	8/f	2/f
	HRS(P)	8	4		2	2	0	3	3	.5	.5	0	0	0	3	0	.3				
c. Meeting Engagement																					
LT	SL	1	2		3	3	3	4	2	2	3	3	3	3	2	2	3	4/3	1/2	1/3	3/3
	HRS(S)	8	10		1	1	0	0	1	.5	.5	0	1	2	2	.2	0/2	8/10	8/f	8/f	2/f
	HRS(P)	6	8		1	0	0	1	.2	.5	.5	0	0	0	3	0	0/2				
CPT	SL	1	1		2	3	3	4	1	2	3	3	3	2	2	3	2/3	1/1	1/1	1/2	3/2
	HRS(S)	8	8		2	2	2	.5	3	1	.5	0	1	3	1.5	.3	1/1	8/8	8/f	8/f	2/f
	HRS(P)	8	4		2	.5	0	0	3	.5	.5	0	0	0	3	0	2/1				
d. Hasty Attack																					
LT	SL	1	2		3	3	3	2	2	2	3	3	3	3	2	2	3	4/3	1/2	1/3	3/3
	HRS(S)	12	10		1	1	0	2	1	.5	.5	2	1	2	2	.2	0/2	12/10	12/10	12/f	2/f
	HRS(P)	8	8		1	1	0	1	1	.2	.5	0	0	0	3	0	0/2				
CPT	SL	1	1		2	3	3	1	1	2	3	3	3	2	2	3	2	1/1	1/1	1/2	3/3
	HRS(S)	8	12		2	2	2	.5	2	1	.5	2	1	3	2	.3	1	8/12	8/f	8/f	2/f
	HRS(P)	8	8		2	2	0	1	3	.5	.5	0	0	0	3	0	.3				
e. Deliberate Attack																					
LT	SL	1	2		3	3	3	2	2	2	3	3	3	3	2	2	3	4/3	1/2	1/2	3/3
	HRS(S)	12	10		1	1	0	4	1	.5	.5	1	1	2	2	.2	0/2	12/10	12/10	12/f	2/f
	HRS(P)	8	8		1	1	0	2	1	.2	.5	0	0	0	3	0	0/2				
CPT	SL	1	1		2	3	3	1	1	2	3	3	3	2	2	3	2	1/1	1/1	1/2	3/3
	HRS(S)	8	12		2	2	2	.5	2	1	.5	2	1	3	2	.3	1	8/12	8/f	8/f	2/f
	HRS(P)	8	8		2	2	0	1	3	.5	.5	0	0	0	3	0	.3				
CPT	SL	1	1		2	3	3	1	1	2	3	3	3	2	2	3	2/3	1/1	1/1	1/2	3/3
	HRS(S)	12	56		2	2	2	.5	4	1	.5	1	1	4	2	.3	1/1	12/56	12/56	1/f	2/f
	HRS(P)	12	56		2	4	0	1	3	.5	.5	0	0	4	3	0	.3/.3				

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BRANCH SCHOOLS

PROFICIENT

f. Exploitation

	IN	AR	FA	AD	EN	SC	MP	MI	CM	OD	NM ¹	AG	F1	QM	TC	MS	AWP	CA	CS	CSS
LT	4	n/a		3	3	3	3	2	2	3		4	4	3	2	3	4/3	4/n	2/3	2/3
SL	0			1	1	0	.5	1	.5	.5		0	0	2	2	.2	0/2	0	8/f	6/f
HRS(S)	0			1	1	0	.5	1	.5	.5		0	0	0	0	0	0/2	0	8/f	6/f
HRS(P)	0			1	0	0	.5	1	.2	.5		0	0	0	3	0	0/2	0	8/f	6/f

g. Pursuit

	IN	AR	FA	AD	EN	SC	MP	MI	CM	OD	NM ¹	AG	F1	QM	TC	MS	AWP	CA	CS	CSS
LT	4	n/a		3	3	3	3	2	2	3		4	4	3	2	3	4/3	4/n	2/3	2/3
SL	0			1	1	0	.5	1	.5	.5		0	0	2	2	.2	0/2	0	8/f	6/f
HRS(S)	0			1	1	0	.5	1	.5	.5		0	0	0	0	0	0/2	0	8/f	6/f
HRS(P)	0			1	0	0	.5	1	.2	.5		0	0	0	3	0	0/2	0	8/f	6/f

h. Relief of Encircled Forces

	IN	AR	FA	AD	EN	SC	MP	MI	CM	OD	NM ¹	AG	F1	QM	TC	MS	AWP	CA	CS	CSS
LT	4	n/a		3	3	3	3	2	2	3		4	4	3	2	3	4/3	4/n	2/3	2/3
SL	0			1	1	0	0	1	.5	.5		0	0	2	2	.2	0/2	0	6/f	6/f
HRS(S)	0			1	1	0	0	1	.5	.5		0	0	0	0	0	0/2	0	6/f	6/f
HRS(P)	0			1	0	0	0	1	.2	.5		0	0	0	3	0	0/2	0	6/f	6/f

i. Reconnaissance in Force

	IN	AR	FA	AD	EN	SC	MP	MI	CM	OD	NM ¹	AG	F1	QM	TC	MS	AWP	CA	CS	CSS
LT	4	n/a		3	3	3	3	2	2	3		4	4	3	2	3	4/3	4/n	2/3	2/3
SL	0			1	1	0	0	1	.5	.5		0	0	2	2	.2	0/2	0	4/f	4/f
HRS(S)	0			1	1	0	0	1	.5	.5		0	0	0	0	0	0/2	0	4/f	4/f
HRS(P)	0			1	0	0	0	1	.2	.5		0	0	0	3	0	0/2	0	4/f	4/f

j. Deception Operations (Feints, Ruses, Raids)

	IN	AR	FA	AD	EN	SC	MP	MI	CM	OD	NM ¹	AG	F1	QM	TC	MS	AWP	CA	CS	CSS
LT	4	n/a		3	3	3	3	2	2	3		4	4	3	2	3	4/3	4/n	2/3	2/3
SL	0			1	1	0	0	1	.2	.5		0	0	3	1.5	.2	0/2	0	10/f	4/f
HRS(S)	0			1	1	0	0	1	.2	.5		0	0	0	0	0	0/2	0	10/f	4/f
HRS(P)	0			1	0	0	0	1	.2	.5		0	0	0	3	0	0/2	0	10/f	4/f

CPT SL HRS(S) HRS(P)

3	3	4	4
1	1	1	1
0	0	0	0

SUBJECTS

BRANCH SCHOOLS

PROPORTION

6. Defensive Operations:

a. Concepts and Fundamentals

	IN	AR	FA	AU	EN	SC	MP	MI	OM	OD	MM	AG	FI	QM	TC	MS	AWP	CA	CS	CSS	
LT																					
SL																					
HRS(S)																					
HRS(P)																					
CPT																					
SL																					
HRS(S)																					
HRS(P)																					

(1) Covering Force Area

LT	1	2	1 th	3	3	3	3	2	2	2	2	2	2	2	2	2	2	3	2 th	2	3	3	3	3	3	4/3	1/2	1/2	2/2	IN/AR
SL	1	4	15	2	1	0	2	1	2	1	4	1	4	1	1	1	1	1	5	1	1	1	1	1	1	1	1/4	1/f	1/f	
HRS(S)	1	4	10	2	1	0	1	2	1.5	3	1	1	4	1	1	1	1	1	9	0	1	1	1	1	1	1	2/3	2/f	2/f	
HRS(P)	1	4	10	2	1	0	1	1.5	3	1	1	1	4	1	1	1	1	1	9	0	1	1	1	1	1	1	2/3	2/f	2/f	
CPT	1	1	1 th	2	2	3	2	1	1	1	1	2	2	2	2	2	2	3	3	2	3	3	3	3	3	3	1/1	1/2	2/2	
SL	1	1	1 th	2	2	3	2	1	1	1	1	2	2	2	2	2	2	3	3	2	3	3	3	3	3	3	1/1	1/2	2/2	
HRS(S)	2	3	27	3	5	1	2	1	2	5	4	1	4	1	1	1	1	1	9	0	1	1	1	1	1	1	2/3	2/f	2/f	
HRS(P)	2	3	22	3	5	0	1.5	3	1	1	4	1	4	1	1	1	1	1	9	0	1	1	1	1	1	1	2/3	2/f	2/f	

(2) Main Battle Area

LT	1	2		3	3	3	3	2	2	2	2	2	2	2	2	2	2	3	3	2	3	3	3	3	3	4/3	1/2	1/2	2/2	IN/AR
SL	1	4		2	2	0	1	2	2	2	2	2	2	2	2	2	2	2	2	1	1	1	1	1	1	1	1/4	1/f	1/f	
HRS(S)	1	4		2	2	0	1	2	2	2	2	2	2	2	2	2	2	2	2	1	1	1	1	1	1	1	1/4	1/f	1/f	
HRS(P)	1	4		2	2	0	1	2	2	2	2	2	2	2	2	2	2	2	2	1	1	1	1	1	1	1	1/4	1/f	1/f	
CPT	1	1	1	1	2	3	2	1	1	1	1	2	2	2	2	2	2	3	3	2	3	3	3	3	3	3	1/1	1/2	2/2	
SL	1	1	1	1	2	3	2	1	1	1	1	2	2	2	2	2	2	3	3	2	3	3	3	3	3	3	1/1	1/2	2/2	
HRS(S)	2	2	2	4	5	1	6	4	4	5	6	1	6	4	4	4	4	4	5	1	1	1	1	1	1	1	2/2	2/f	2/f	
HRS(P)	2	2	2	4	5	0	6	4	4	5	6	1	6	4	4	4	4	4	5	1	1	1	1	1	1	1	2/2	2/f	2/f	

(3) Rear Area

LT	1	2		3	3	3	2	2	2	2	2	2	2	2	2	2	2	3	3	2	3	3	3	3	3	4/3	1/2	1/2	2/2	IN/AR
SL	1	4		2	1	0	4	4	4	4	4	4	4	4	4	4	4	4	4	1	1	1	1	1	1	1	1/4	1/f	1/f	
HRS(S)	1	4		2	1	0	4	4	4	4	4	4	4	4	4	4	4	4	4	1	1	1	1	1	1	1	1/4	1/f	1/f	
HRS(P)	1	4		2	1	0	4	4	4	4	4	4	4	4	4	4	4	4	4	1	1	1	1	1	1	1	1/4	1/f	1/f	
CPT	1	1	1	1	2	3	2	1	1	1	1	2	2	2	2	2	2	3	3	2	3	3	3	3	3	3	1/1	1/2	2/2	
SL	1	1	1	1	2	3	2	1	1	1	1	2	2	2	2	2	2	3	3	2	3	3	3	3	3	3	1/1	1/2	2/2	
HRS(S)	2	2	2	4	5	1	6	4	4	5	6	1	6	4	4	4	4	4	5	1	1	1	1	1	1	1	2/2	2/f	2/f	
HRS(P)	2	2	2	4	5	0	6	4	4	5	6	1	6	4	4	4	4	4	5	1	1	1	1	1	1	1	2/2	2/f	2/f	

b. Defense in Sector

LT	1	2		3	3	3	2	2	2	2	2	2	2	2	2	2	2	3	3	2	3	3	3	3	3	4/3	1/2	1/3	3/3	IN/AR
SL	1	4		2	1	0	4	4	4	4	4	4	4	4	4	4	4	4	4	1	1	1	1	1	1	1	1/2	1/3	3/3	
HRS(S)	8	4		2	1	0	4	4	4	4	4	4	4	4	4	4	4	4	4	1	1	1	1	1	1	1	1/2	1/3	3/3	
HRS(P)	8	4		2	1	0	4	4	4	4	4	4	4	4	4	4	4	4	4	1	1	1	1	1	1	1	1/2	1/3	3/3	
CPT	1	1	1	1	2	3	2	1	1	1	1	2	2	2	2	2	2	3	3	2	3	3	3	3	3	3	1/1	1/2	3/3	
SL	1	1	1	1	2	3	2	1	1	1	1	2	2	2	2	2	2	3	3	2	3	3	3	3	3	3	1/1	1/2	3/3	
HRS(S)	9	28		4	5	1	5	5	5	6	6	1	6	5	4	4	4	5	5	1	1	1	1	1	1	1	9/28	9/2	4/f	
HRS(P)	9	28		4	5	0	5	5	5	6	6	1	6	5	4	4	4	5	5	1	1	1	1	1	1	1	9/28	9/2	4/f	

SUBJECTS

BRANCH SCHOOLS

PROPOSENT

c. Defense from Battle Positions

(1) Linear

LT	SL	ARS(S)	ARS(P)	IN	AR	FA	AU	EN	SC	MP	MI	CM	OD	MM ¹	AG	F1	QM	TC	MS	AWp	CA	CS	CSS	IN/AR	
1	2	3	3	2	2	3	3	3	3	2	2	2	4	2	3	3	3	2	3	3	4/3	1/2	1/3	3/3	IN/AR
6	8	2	2	2	2	2	2	2	0	1	2	1	0	1	1	4	1.5	.5	0/5	0/5	6/8	6/f	2/f	IN/AR	
3	4	2	1	2	1	0	0	.5	1	1	0	0	0	0	0	0	1	1	0	0/0					

(2) In-Depth

LT	SL	ARS(S)	ARS(P)	IN	AR	FA	AU	EN	SC	MP	MI	CM	OD	MM ¹	AG	F1	QM	TC	MS	AWp	CA	CS	CSS	IN/AR	
1	2	3	3	2	2	3	3	3	3	2	2	2	4	2	3	3	3	2	3	3	4/3	1/2	1/3	3/3	IN/AR
6	8	2	2	2	2	2	2	2	.5	1.5	2	1	0	1	1	4	1.5	.5	0/5	0/5	6/8	6/f	2/f	IN/AR	
3	4	2	1	2	1	0	2	2	1.5	1.5	1	.5	0	0	0	0	1	1	0	0/0					

(3) Perimeter

LT	SL	ARS(S)	ARS(P)	IN	AR	FA	AU	EN	SC	MP	MI	CM	OD	MM ¹	AG	F1	QM	TC	MS	AWp	CA	CS	CSS	IN/AR	
1	2	3	3	2	2	3	3	3	3	2	2	2	4	2	3	3	3	2	3	3	4/3	1/2	1/3	3/3	IN/AR
6	8	2	2	2	2	2	2	2	1	8	2	1	0	1	4	15	2	2	.5	0/5	6/8	6/f	2/f	IN/AR	
3	4	2	1	2	1	0	8	1	4	4	1	.2	0	0	0	2	2	1	0	0/0					

d. Strong Points

LT	SL	ARS(S)	ARS(P)	IN	AR	FA	AU	EN	SC	MP	MI	CM	OD	MM ¹	AG	F1	QM	TC	MS	AWp	CA	CS	CSS	IN/AR	
1	2	3	3	2	2	3	3	3	3	2	2	2	4	2	3	3	3	2	3	3	4/3	1/2	1/3	3/3	IN/AR
2	4	2	2	2	2	2	2	2	0	.5	2	1	.5	1	1	2	1	1	.5	0/5	2/4	2/f	2/f	IN/AR	
1	4	0	1	2	1	0	1	1	.5	2	2	.1	.5	0	0	0	1	1	0	0/0					

e. Counterattack

LT	SL	ARS(S)	ARS(P)	IN	AR	FA	AU	EN	SC	MP	MI	CM	OD	MM ¹	AG	F1	QM	TC	MS	AWp	CA	CS	CSS	IN/AR	
1	2	3	3	2	2	3	3	3	3	2	2	2	4	2	3	3	3	2	3	3	4/3	1/2	1/3	3/3	IN/AR
4	4	1	1	2	1	0	1	1	0	.5	5	2	.5	1	1	3	3	1	.5	0/5	4/4	4/f	2/f	IN/AR	
2	4	1	0	2	0	0	1	0	.5	3	1	.2	0	0	0	0	1	1	0	0/0					

SUBJECTS

BRANCH SCHOOLS

PROPONENT

f. Breakout/Linkup

	IN	AR	FA	AU	EN	SC	MP	MI	OM	OD	MM ¹	AG	F1	QM	IC	MS	AWP	CA	CS	CSS	
LT	2	3	2	3	3	3	3	2	2	4		3	3	3	2	3	4/3	2/3	2/3	3/3	IN/AR
SL	4	1	15	1	1	0	1	2	2	0		1	1	3	1	.5	0/5	4/1	4/f	2/f	
HRS(S)	4	1	15	1	1	0	1	2	2	0		1	1	3	1	.5	0/5	4/1	4/f	2/f	
HRS(P)	2	0	10	0	0	0	0	0	0	0		0	0	0	1	0	0/0				

9. C3 Options Once the Battle Begins

	IN	AR	FA	AU	EN	SC	MP	MI	OM	OD	MM ¹	AG	F1	QM	IC	MS	AWP	CA	CS	CSS	
CPT	1	2	2	2	3	3	2	1	2	3		3	3	2	2	3	3	1/2	1/2	3/3	IN/AR
SL	6	4	4	1	2	0	1	5	1	.5		1	1	3	1.5	.5	.5	6/4	6/f	2/f	
HRS(S)	6	4	4	1	2	0	1	5	1	.5		1	1	3	1.5	.5	.5	6/4	6/f	2/f	
HRS(P)	2	0	10	0	0	0	0	0	0	0		0	0	0	1	0	0				
LT	1	3	2	3	3	3	3	2	2	3		3	3	2	2	3	4/4	1	1	1	CGSC
SL	4	2	15	1	2	0	2	2	3	1		1	1	4	1.5	.5	0/0	12	12	12	
HRS(S)	4	2	15	1	2	0	2	2	3	1		1	1	4	1.5	.5	0/0	12	12	12	
HRS(P)	4	2	10	1	0	0	2	2	0	0		0	0	0	1	0	0/0				

CPT	1	1	1	2	3	3	2	1	2	3		3	3	2	2	3	3	1	1	1	CGSC
SL	4	4	4	2	4	1	2	5	2	.5		1	1	4	2	.5	1	8	8	8	
HRS(S)	4	4	4	2	4	1	2	5	2	.5		1	1	4	2	.5	1	8	8	8	
HRS(P)	4	4	4	2	.3	0	2	0	1	0		0	0	0	1	0	0				

7. Retrograde Operations:

a. Disengagement

	IN	AR	FA	AU	EN	SC	MP	MI	OM	OD	MM ¹	AG	F1	QM	IC	MS	AWP	CA	CS	CSS	
LT	1	2	3	3	3	3	a	2	2	3		4	4	2	2	3	4/3	1/2	1/3	3/3	IN/AR
SL	8	8	.5	1	1	.1		5	.5	.5	3h	0	0	0	0	.5	0/5	8/8	8/f	2/f	
HRS(S)	8	8	.5	1	1	.1		5	.5	.5	3h	0	0	0	0	.5	0/5	8/8	8/f	2/f	
HRS(P)	4	4	0	1	0	0	0	0	.2	.2	1	0	0	0	.5	0	0/0				

CPT	1	1	3	2	3	3	a	1	2	3	2h	4	3	2	2	3	3	1/1	1/3	3/3	IN/AR
SL	4	4	8.4	2	4	1		5	.5	.7	2	0	1	3	1	.5	.5	4/4	4/f	2/f	
HRS(S)	4	4	8.4	2	4	1		5	.5	.7	2	0	1	3	1	.5	.5	4/4	4/f	2/f	
HRS(P)	3	4	.1	2	.5	0	0	0	.2	.7		0	0	0	1	0	.5				

b. Delay

	IN	AR	FA	AU	EN	SC	MP	MI	OM	OD	MM ¹	AG	F1	QM	IC	MS	AWP	CA	CS	CSS	
LT	1	2	3	3	3	3	.3	3	2	3		4	3	3	3	3	4/3	1/2	1/2	3/3	IN/AR
SL	8	4	.5	2	3	.3	.5	2	1	.5		0	1	3	1	1	0/5	8/4	6/f	2/f	
HRS(S)	8	4	.5	2	3	.3	.5	2	1	.5		0	1	3	1	1	0/5	8/4	6/f	2/f	
HRS(P)	4	4	0	1	0	0	0	0	.2	.2		0	0	0	.5	.3	0/3				

CPT	1	1	2	2	3	3	2	1	2	3		4	3	2	2	3	3	1/1	1/2	3/3	IN/AR
SL	15	4	8.4	1	4	1		5	1	.7		0	1	4	1	1	.5	15/4	8/f	2/f	
HRS(S)	15	4	8.4	1	4	1		5	1	.7		0	1	4	1	1	.5	15/4	8/f	2/f	
HRS(P)	13	0	4	1	8	0	.5	3	.2	.7		0	0	0	1	.3	.5				

c. Withdrawal

	IN	AR	FA	AU	EN	SC	MP	MI	OM	OD	MM ¹	AG	F1	QM	IC	MS	AWP	CA	CS	CSS	
LT	1	2	3	3	3	3	.3	3	2	3		4	3	3	3	3	4/3	1/2	1/3	3/3	IN/AR
SL	8	4	.5	2	2	.3	.5	2	1	.5		0	1	2	1.5	1	0/5	8/4	4/f	2/f	
HRS(S)	8	4	.5	2	2	.3	.5	2	1	.5		0	1	2	1.5	1	0/5	8/4	4/f	2/f	
HRS(P)	4	4	1	1	0	0	0	0	.2	.2		0	0	0	.5	.3	0/3				

CPT	1	1	3	2	3	3	2	1	2	3		4	3	2	2	3	3	1/1	1/3	3/3	IN/AR
SL	4	4	8.4	2	2	1		5	1	.7		0	1	3	1	1	.5	4/4	4/f	2/f	
HRS(S)	4	4	8.4	2	2	1		5	1	.7		0	1	3	1	1	.5	4/4	4/f	2/f	
HRS(P)	4	0	.5	2	2	0	.5	2	.2	.7		0	0	0	1	.3	.5				

SUBJECTS

BRANCH SCHOOLS

PROFICIENT

SUBJECTS	BRANCH SCHOOLS													PROFICIENT							
	IN	AR	FA	AD	EN	SC	MP	MI	CM	UD	MW ¹	AG	F1	QM	TC	MS	AWP	CA	CS	CSS	
e. Operations of Divisional Cavalry (Division 86)	LT	4	3	3	3	3	4	4	4	4	4	3	3	3	3	3	3	3	3	3	3
	SL	0	2	5	.5	1	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1
	HRS(S)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	HRS(P)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	CPT	4	2	2	3	3	4	3	2	2	3	3	3	2	2	3	3	2	2	3	3
	HRS(S)	0	2	1	.5	1	0	1	2	2	.5	1	1	2	1	1	1	2	2	3	3
	HRS(P)	4	0	0	0	0	0	0	2	1	0	0	0	0	1	0	1	2	2	3	3

SUBJECTS	BRANCH SCHOOLS													PROFICIENT							
	IN	AR	FA	AD	EN	SC	MP	MI	CM	UD	MW ¹	AG	F1	QM	TC	MS	AWP	CA	CS	CSS	
f. Covering force	LT	4	2	3	3	3	3	3	4	4	4	3	3	3	3	3	3	2	2	2	3
	SL	0	2	5	.3	2	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1
	HRS(S)	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	HRS(P)	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	CPT	4	1	2	2	3	3	3	2	2	3	3	3	2	2	3	3	1	2	2	3
	HRS(S)	0	40	1	1	4	0	2	2	2	.5	1	1	5	1	1	1	40	40	2	2
	HRS(P)	4	40	2	0	2	0	1.5	2	2	0	0	0	4	1	0	7/0	2	2	2	3

9. Special Military Operations:

SUBJECTS	BRANCH SCHOOLS													PROFICIENT							
	IN	AR	FA	AD	EN	SC	MP	MI	CM	UD	MW ¹	AG	F1	QM	TC	MS	AWP	CA	CS	CSS	
a. Military Operations In Urban Terrain	LT	1	2	1	3	3	2	2	2	3	3	2	3	3	3	3	4/3	1	1	2	2
	SL	15	4	1	1	1	0	10	2	2	2	2	2	2	2	2	0/2	15	15	4	4
	HRS(S)	11	0	0	0	0	4	4	0	0	.5	2	0	0	0	0/5	0	0	0	0	0
	HRS(P)	11	0	0	0	0	4	4	2	2	0	0	0	0	0	0	0	0	0	0	0
	CPT	1	1	1	2	2	3	1	2	2	3	2	3	2	1	3	3	1	1	2	2
	HRS(S)	27	4	.6	1	3	0	8	4	4	.5	2	2	11	3	1	1	27	27	4	4
	HRS(P)	27	4	1.7	0	3	0	3	4	1	0	0	0	0	2	0	0	27	27	4	4

b. Rear Area Combat
Operations (RACO)

SUBJECTS	BRANCH SCHOOLS													PROFICIENT							
	IN	AR	FA	AD	EN	SC	MP	MI	CM	UD	MW ¹	AG	F1	QM	TC	MS	AWP	CA	CS	CSS	
(1) Organization for Combat	LT	3	3	3	3	3	2	3	3	2	2	1	2	2	2	3	3/3	1/2	4/2	3/2	3/2
	SL	0	0	2	1	1	0	3	3	0	.5	1	4	4	1	2	.5/2	2/0	0/3	1/3	1/3
	HRS(S)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	HRS(P)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	CPT	3	2	1	2	3	1	1	2	1	1 ^h	1	1	1	1	1	3	1/1	3/1	3/1	3/1
	HRS(S)	2	.5	.37	.5	2	1	3	3	3	.5	4	4	5	3	1	1	2/0	2/3	2/3	2/3
	HRS(P)	2	0	37	0	.5	0	3	3	.2	1	1	1	0	1	0	0	2/0	2/3	2/3	2/3

SUBJECTS

BRANCH SCHOOLS

PROPONENT

		IN	AR	FA	/D	EN	SC	MP	MI	QM	OD	NW1	AG	F1	QM	TC	MS	AWP	CA	CS	CSS	
(2) Perimeter Defense	LT	3	2	3	2	3	3	2	3	3	2		1	2	2	2	3	4/3	1/2	2/2	2/2	CGSC/MP
	SL	0	0	.3	2	1	2	10	3	.2	16		4	4	11	4	1	0/1	4/0	8/10	8/10	
	HRS(S)	0	0	.3	2	2	2	5	0	.5	8		2	2	3	1	0	0/0				
	HRS(P)	0	0	.3	2	2	2	5	0	.5	8		2	2	3	1	0	0/0				
(3) Active/Passive Security	CPT	3	2	1	1	3	3	1	1	2	1		1	1	1	1	1	3	1/1	2/1	2/1	CGSC/MP
	SL	1	0	.2	.5	2	0	7	5	.5	.5		4	4	6	3	1	1	4/0	8/7	8/7	
	HRS(S)	1	0	.2	.5	2	0	7	5	.5	.5		4	4	6	3	1	1				
	HRS(P)	1	0	.2	.5	2	0	7	5	.5	.5		4	4	6	3	1	1				
(4) Weapons Employment	LT	3	2	3	2	3	3	2	3	3	1		1	2	2	2	3	4/3	1/2	1/2	1/2	CGSC/MP
	SL	0	0	.1	1	1	1	14	3	.5	4		4	4	11	4	1	0/2	4/2	8/14	8/14	
	HRS(S)	0	0	.1	1	1	1	14	3	.5	4		4	4	11	4	1	0/2				
	HRS(P)	0	0	.1	1	1	1	14	3	.5	4		4	4	11	4	1	0/2				
(5) Physical Layout of Rear Area	CPT	3	2	1	1	3	3	1	2	2	1		1	1	1	1	3	3/3	1/1	1/1	1/1	CGSC/MP
	SL	1	.5	.1	.5	2	0	6	5	1	.5		4	4	3	4	1	1/0	6/4	8/14	8/14	
	HRS(S)	1	.5	.1	.5	2	0	6	5	1	.5		4	4	3	4	1	1/0				
	HRS(P)	1	.5	.1	.5	2	0	6	5	1	.5		4	4	3	4	1	1/0				
c. Reconstitution of Ineffective Units	LT	4	2	2	2	4	4	2	3	3	3		3	3	3	4	3	4/4	3	2	2	CGSC
	SL	0	1	6	1	0	0	1	3	.5	2		1	2	3	0	1	0/0	1	2	2	
	HRS(S)	0	1	6	1	0	0	1	3	.5	2		1	2	3	0	1	0/0				
	HRS(P)	0	1	6	1	0	0	1	3	.5	2		1	2	3	0	1	0/0				
CPT	LT	4	2	2	2	4	4	2	3	3	3		3	3	3	4	3	4/3	2	1	1	CGSC
	SL	0	2	3	1	3	0	0	2	2	2		3	1	2	1	1	0/2	4	4	4	
	HRS(S)	0	2	3	1	3	0	0	2	2	2		3	1	2	1	1	0/2				
	HRS(P)	0	2	3	1	3	0	0	2	2	2		3	1	2	1	1	0/2				

SUBJECTS

BRANCH SCHOOLS

PROFICIENT

d. Counterinsurgency Operations

	IN	AR	FA	AU	EN	SC	MP	MI	OM	OD	MMI	AG	F1	QM	TC	MS	AVJp	CA	CS	CSS	
LT																					
SL	3	3	3	3	3	3	2	4	2	3	3	4	4	2	3	3	4/3	3	3	3	IN
HRS(S)	0	0	5	.5	1	0	8	0	1	2	1	0	0	3	1	1	0/5	0	4	4	2
HRS(P)	0	0	0	0	1	0	4	0	0	0	1	0	0	0	0	0	0/0				
CPT																					
SL	3	3	3	3	3	3	2	3	2	3	3	3	3	2	3	3	3/3	3	3	3	IN
HRS(S)	8	.5	0	1	2	0	8	3	1	0	2	1	1	2	1	1	.5/2	4	4	4	
HRS(P)	8	0	0	0	.3	0	4	3	0	0	0	0	0	0	1	0	0/2				

e. Counterterrorism Operations

	IN	AR	FA	AU	EN	SC	MP	MI	OM	OD	MMI	AG	F1	QM	TC	MS	AVJp	CA	CS	CSS	
LT																					
SL	3	3	4	3	3	3	2	3	2	3	3	4	4	2	3	3	4/3	2/3	2/3	2/3	MP/IMA
HRS(S)	0	0	0	.5	1	0	20	5	1	0	1	0	0	3	1	1	0/5	20/1	20/1	20/1	
HRS(P)	0	0	0	0	1	0	1	0	0	0	1	0	0	0	0	0	0/0				
CPT																					
SL	3	3	4	2	3	3	1	1	2	3	3	4	4	2	3	3	3	1/2	1/2	1/3	MP/IMA
HRS(S)	2	.5	0	2	1	0	36	10	1	0	2	0	0	3	1	1	.5	36/2	36/2	36/1	
HRS(P)	2	0	0	0	0	0	21	10	4	0	0	0	0	0	0	0	0				

f. Special Forces Operations

	IN	AR	FA	AU	EN	SC	MP	MI	OM	OD	MMI	AG	F1	QM	TC	MS	AVJp	CA	CS	CSS	
LT																					
SL	3	3	3	4	3	3	3	3	2	3	3	4	4	3	3	3	4/3	3	3	3	IMA
HRS(S)	0	0	1	0	1	0	1	0	.5	0	1	0	0	1	1	1	0/5	1	1	1	
HRS(P)	0	0	0	0	1	0	0	0	0	0	2	0	0	0	0	0	0/0				
CPT																					
SL	3	4	3	4	3	3	3	2	2	3	3	4	4	3	3	3	3/3	2	2	2	IMA
HRS(S)	0	0	1	0	1	0	1	5	1	0	2	0	0	1	1	1	.5/2	2	2	2	
HRS(P)	0	0	0	0	.5	0	0	0	0	0	0	0	0	0	0	0	0/2				

g. Foreign Internal Defense

	IN	AR	FA	AU	EN	SC	MP	MI	OM	OD	MMI	AG	F1	QM	TC	MS	AVJp	CA	CS	CSS	
LT																					
SL	3	4	4	4	3	4	4	4	4	3	3	4	4	4	3	3	4/3	3	3	3	IMA
HRS(S)	0	0	0	0	1	0	0	0	0	0	0	0	0	0	.5	1	0/5	1	1	1	
HRS(P)	0	0	0	0	1	0	0	0	0	0	0	0	0	0	1	0	0/0				
CPT																					
SL	3	2	4	3	3	4	4	2	3	3	3	4	4	3	3	3	3/3	2	2	2	IMA
HRS(S)	0	4	0	.5	1	0	0	.5	.5	0	0	0	0	2	.5	1	.5/2	2	2	2	
HRS(P)	0	4	0	0	0	0	0	2	0	0	0	0	0	0	1	0	0/2				

h. Unconventional Warfare

	IN	AR	FA	AU	EN	SC	MP	MI	OM	OD	MMI	AG	F1	QM	TC	MS	AVJp	CA	CS	CSS	
LT																					
SL	3	3	4	4	3	3	9	3	3	3	3	4	4	3	3	3	4/3	3	3	3	IMA
HRS(S)	0	0	0	0	1	0	9	3	1	0	1	0	0	1	1	1	0/5	1	1	1	
HRS(P)	0	0	.1	0	1	0	0	0	0	0	1	0	0	0	.5	0	0/0				
CPT																					
SL	3	3	3	3	3	3	9	2	2	3	2	4	4	3	3	3	3/3	2	2	2	IMA
HRS(S)	8	.5	1	.5	1	1	9	3	1	0	1	0	0	2	1	1	.5/1	2	2	2	
HRS(P)	8	0	.1	0	0	0	0	3	1	0	1	0	0	0	1	0	0/1				

SUBJECTS

BRANCH SCHOOLS

PROPORTION

1. Psychological Operations

	IN	AR	FA	AU	LN	SC	MP	M1	CM	UD	MM ¹	AG	F1	QM	TC	MS	AW ^p	CA	CS	CSS		
LT	3	3	4	3	3	3	3	3	3	3	3	4	4	4	3	3	2	4/3	3	3	3	IMA
SL	0	0	0	0	1	0	0	0	0	0	1	0	0	0	1	1	0	0/5	1	1	1	
HRS(S)	0	0	0	0	1	0	0	0	0	0	1	0	0	0	1	1	0	0/0				
HRS(P)	0	0	0	0	1	0	0	0	0	0	1	0	0	0	1	1	0	0/0				
CPT	3	3	3	3	3	3	3	2	2	3	2	4	4	4	3	3	3	3	2	2	3	IMA
SL	0	.5	1	1	1	0	1	3	1	0	1	0	0	0	1	1	0	.5				
HRS(S)	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1	1	0	0	2	2	3	
HRS(P)	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1	1	0	0				

J. Civil Affairs

	IN	AR	FA	AU	LN	SC	MP	M1	CM	UD	MM ¹	AG	F1	QM	TC	MS	AW ^p	CA	CS	CSS		
LT	3	3	4	3	3	3	2	4	3	3	3	3	3	3	3	3	2	4/3	3	3	3	IMA
SL	0	1	0	1	1	1	.5	0	.5	0	1	0	0	0	1	1	0	0/1	1	1	1	
HRS(S)	0	1	0	1	1	1	.5	0	.5	0	1	0	0	0	1	1	0	0/1				
HRS(P)	0	1	0	1	1	1	.5	0	.5	0	1	0	0	0	1	1	0	0/1				
CPT	3	2	3	3	3	3	2	3	2	3	2	3	3	3	3	3	3	3/3	2	2	3	IMA
SL	0	2	2	1	1	2	2	1	1	0	2	1	1	2	1	1	0	1/1				
HRS(S)	0	2	2	1	1	2	2	1	1	0	2	1	1	2	1	1	0	1/1				
HRS(P)	0	1	0	0	1	0	.5	0	.2	0	0	0	0	0	1	0	0/1					

K. Amphibious

	IN	AR	FA	AU	LN	SC	MP	M1	CM	UD	MM ¹	AG	F1	QM	TC	MS	AW ^p	CA	CS	CSS		
LT	3	3	4	3	2	4	3	4	3	3	3	4	4	4	3	3	3	4/3	3	2	3	IN
SL	1	1	0	1	1	0	1	0	1	0	1	0	0	0	5	1	1	0/1	1	8	2	
HRS(S)	1	1	0	1	1	0	1	0	1	0	1	0	0	0	5	1	1	0/1				
HRS(P)	0	1	0	1	1	0	1	0	1	0	1	0	0	0	1	1	0	0/1				
CPT	3	3	3	3	1	3	3	3	2	3	3	4	4	4	2	2	3	3	3	2	3	IN
SL	8	1	2	1	0	2/0 ^c	1	2	2	0	1	0	0	0	2	3.5	0	0				
HRS(S)	8	1	2	1	0	2/0 ^c	1	2	2	0	1	0	0	0	2	3.5	0	0				
HRS(P)	8	1	2	1	0	2/0 ^c	1	2	2	0	1	0	0	0	2	3.5	0	0				

L. Airborne

	IN	AR	FA	AU	LN	SC	MP	M1	CM	UD	MM ¹	AG	F1	QM	TC	MS	AW ^p	CA	CS	CSS		
LT	3	3	3	3	3	3	3	3	2	3	3	4	4	4	3	3	3	4/3	3	3	3	IN
SL	1	0	1	1	1	0	1	1	1	0	1	0	0	0	3	1	1	0/1	1	1	2	
HRS(S)	1	0	1	1	1	0	1	1	1	0	1	0	0	0	3	1	1	0/1				
HRS(P)	0	0	0	.5	0	0	0	0	.5	0	1	0	0	0	1	1	0/5					
CPT	3	2	3	2	3	3	3	1	2	3	2	3	3	2	3	3	3	3	3	3	3	IN
SL	9	.5	2	1	1	1	1	1	1	.3	2	3	3	3	3	3	3	.5				
HRS(S)	9	.5	2	1	1	1	1	1	1	.3	2	3	3	3	3	3	3	.5				
HRS(P)	9	0	.2	.5	0	0	0	0	.2	0	2	3	3	3	3	3	3	0				

M. Airborne

	IN	AR	FA	AU	LN	SC	MP	M1	CM	UD	MM ¹	AG	F1	QM	TC	MS	AW ^p	CA	CS	CSS		
LT	1	3	3	3	3	3	2	3	2	3	3	4	4	4	3	3	3	4/2	1/2	1/3	3/3	IN/AV
SL	20	0	2	1	1	0	1	2	1	0	1	0	0	0	3	1	1	0/18	20/9	10/4	2/4	
HRS(S)	20	0	2	1	1	0	1	2	1	0	1	0	0	0	3	1	1	0/18				
HRS(P)	16	0	0	.5	0	0	0	0	.5	0	1	0	0	0	1	1	0/5					
CPT	1	2	3	2	3	3	2	3	2	3	3	4	4	4	3	3	3	4/2	1/2	1/3	3/3	IN/AV
SL	36	.5	2	1	1	1	2	3	2	3	3	4	4	4	3	3	3	4/2				
HRS(S)	36	.5	2	1	1	1	2	3	2	3	3	4	4	4	3	3	3	4/2				
HRS(P)	36	0	.2	.5	0	0	0	0	.2	.3	2	3	3	2	1	1	5/0					

	IN	AR	FA	AU	LN	SC	MP	M1	CM	UD	MM ¹	AG	F1	QM	TC	MS	AW ^p	CA	CS	CSS		
CPT	1	2	3	2	3	3	2	3	2	3	2	3	3	2	3	3	3	2/3	1/1	1/2	3/2	IN/AV
SL	36	.5	2	1	1	1	2	3	2	3	2	3	3	2	1	1	5/0					
HRS(S)	36	.5	2	1	1	1	2	3	2	3	2	3	3	2	1	1	5/0					
HRS(P)	36	0	.2	.5	0	0	0	0	.2	.3	2	3	3	2	1	1	5/0					

SUBJECTS

BRANCH SCHOOLS

PROPONENT

SUBJECTS	BRANCH SCHOOLS																PROPONENT			
	IN	AR	FA	AD	EN	SC	MP	MI	OM	OD	MM ¹	AG	F1	QM	TC	MS	AVd ^p	CA	CS	CSS
n. Ranger	LT	3	3	3	3	3	3	4	2	3	3	4	4	3	3	3	4/3	3	3	3
	SL	1	0	1	0	1	0	0	0	0	1	0	0	0	1	1	0/5	1	1	1
	HRS(S)	1	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0/0			
CPT	SL	3	3	3	3	3	3	3	2	3	2	4	3	3	3	3	3	3	3	3
	HRS(S)	2	.5	2	0	1	0	0	0	0	1	0	1	2	1	1	.5	2	1	1
	HRS(P)	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0			

10. Considerations for Special Environments:

SUBJECTS	BRANCH SCHOOLS																PROPONENT			
	IN	AR	FA	AD	EN	SC	MP	MI	OM	OD	MM ¹	AG	F1	QM	TC	MS	AVd ^p	CA	CS	CSS
a. Desert	LT	3	3	3	3	3	3	2	2	3	3 ^h	4	4	3	3	2	4/3	3/3	3/3	3/3
	SL	1	1	2	.5	1	0	0	0	1	1	0	0	2	1	1	0/1	1/1	1/1	1/1
	HRS(S)	0	0	.1	0	0	0	0	0	0	1	0	0	0	0	0	0/0			
CPT	SL	3	2	3	2	3	3	1	2	3	2 ^h	4	3	2	3	1	3/3	3/2	3/2	3/2
	HRS(S)	7	2	2	1	2	.5	0	3	0	4	0	1	2	1	1	1/.5	7/2	7/2	7/2
	HRS(P)	7	3	.1	1	1	0	0	0	0	0	0	0	0	0	0	1/0			

SUBJECTS	BRANCH SCHOOLS																PROPONENT			
	IN	AR	FA	AD	EN	SC	MP	MI	OM	OD	MM ¹	AG	F1	QM	TC	MS	AVd ^p	CA	CS	CSS
b. Jungle	LT	3	3	3	3	3	3	2	2	3	3	4	4	3	3	2	4/3	3	3	3
	SL	1	1	2	.5	1	0	0	0	1	1	0	0	1	1	0	0/1	1	1	1
	HRS(S)	0	0	.1	0	0	0	0	0	0	1	0	0	0	0	0	0/0			
CPT	SL	3	2	3	2	3	3	1	2	3	2	4	4	2	3	1	3/3	3	3	3
	HRS(S)	7	1.5	2	1	1	.5	0	3	0	4	0	0	2	1	1	1/.5	7	7	7
	HRS(P)	7	0	.1	0	0	0	0	0	0	0	0	0	0	0	0	1/0			

SUBJECTS	BRANCH SCHOOLS																PROPONENT			
	IN	AR	FA	AD	EN	SC	MP	MI	OM	OD	MM ¹	AG	F1	QM	TC	MS	AVd ^p	CA	CS	CSS
c. Mountain	LT	3	3	3	3	3	3	2	2	3	3	4	4	3	3	2	4/3	3	3	3
	SL	1	1	2	.5	1	0	0	0	1	1	0	0	2	1	1	0/1	1	1	1
	HRS(S)	0	0	.1	0	0	0	0	0	0	1	0	0	0	0	0	0/0			
CPT	SL	3	2	3	2	3	3	1	2	3	2	4	4	2	3	1	3/3	3	3	3
	HRS(S)	7	1.5	2	1	1	.5	0	3	0	4	0	0	2	1	1	1/.5	7	7	7
	HRS(P)	9	0	.2	0	0	0	0	0	0	0	0	0	0	0	0	1/0			

SUBJECTS	BRANCH SCHOOLS																PROPONENT			
	IN	AR	FA	AD	EN	SC	MP	MI	OM	OD	MM ¹	AG	F1	QM	TC	MS	AVd ^p	CA	CS	CSS
d. Northern Regions	LT	3	3	3	3	3	3	2	2	3	3	4	4	3	3	2	4/3	3	3	3
	SL	1	1	2	.5	1	0	0	0	1	1	0	0	1	1	0	0/1	1	1	1
	HRS(S)	0	0	.1	0	0	0	0	0	0	1	0	0	0	0	0	0/0			
CPT	SL	3	2	3	2	3	3	1	2	3	2	4	4	2	3	1	3/3	3	3	3
	HRS(S)	7	1.5	2	1	1	.5	0	3	0	4	0	0	1	1	1	1/.5	7	7	7
	HRS(P)	9	0	.2	0	0	0	0	0	0	0	0	0	0	0	0	1/0			

SUBJECTS

BRANCH SCHOOLS

PROPONENT

12. Air Defense:

a. Short Range Air Defense Systems (SIRADU)

	IN	AR	FA	AU	EN	SC	MP	MI	OM	OD	MM ¹	AG	FI	QM	TC	MS	AWP	CA	CS	GSS	AD
LT	3	3	3	2	3	3	3	3	2	3	3 ^h	3	3	3	3	3	4/3	2	3	3	
SL	2	2	3	2	1	0	2	2	2	2	2 ^h	3	3	3	2	2	3/3	2	2	2	
HRS(S)	1	2	.5	27	1	0	.2	2	2	1	4	1	1	2	1	1	0/1	4	2	2	
HRS(P)	1	.5	.5	27	0	0	0	0	.2	1	4	0	0	0	2	0	0/.5				
CPT	2	2	3 ^h	1	3	3	2	2	2	2	2 ^h	3	3	2	2	3	3/3	2	2	3	
SL	1	1	4	23	1	0	1	2	2	1	8	1	1	2	2	1	1/1	4	4	2	
HRS(S)	1	1	4	23	1	0	1	2	2	1	8	1	1	2	2	1	1/1				
HRS(P)	1	1	4	23	1	0	1	2	2	1	8	1	1	2	2	1	1/0				

b. Man Portable Air Defense Systems

	IN	AR	FA	AU	EN	SC	MP	MI	OM	OD	MM ¹	AG	FI	QM	TC	MS	AWP	CA	CS	GSS	AD
LT	3	3	3	2	3	3	3	3	2	3	3	4	3	3	3	3	4/3	2	2	2	
SL	1	1	.5	7	1	0	0	1	2	1	1	1	0	0	2	2	1	0/1	2	2	2
HRS(S)	1	.5	.5	7	1	0	0	0	0	1	1	0	0	0	2	1	0/1				
HRS(P)	1	.5	.5	7	0	0	0	0	.2	1	1	0	0	0	2	0	0/.5				
CPT	2	2	2	1	3	3	2	2	2	2	2	3	3	2	2	3	3/3	2	2	2	
SL	1	1	1	3	1	1	1	2	2	1	1	1	1	3	2	2	1/0	2	2	2	
HRS(S)	1	.5	.5	3	1	0	0	0	0	.2	.5	0	0	0	2	1	1/0				
HRS(P)	1	.5	.5	3	.5	0	0	0	0	0	.2	0	0	0	2	.5	1/0				

c. Non-Divisional Air Defense Systems

	IN	AR	FA	AU	EN	SC	MP	MI	OM	OD	MM ¹	AG	FI	QM	TC	MS	AWP	CA	CS	GSS	AD
LT	3	3	3	2	3	4	3	4	2	3	4	4	3	3	3	3	4/3	3	3	3	
SL	1	.5	.5	28	1	0	0	1	0	1	0	0	0	0	2	1.5	1	0/1	1	1	1
HRS(S)	1	.5	.5	28	1	0	0	1	0	1	0	0	0	0	2	1.5	1	0/1			
HRS(P)	1	.5	.5	28	0	0	0	0	0	0	0	0	0	0	2	0	0/.5				
CPT	3	3	3	1	3	4	3	2	2	2	2	3	3	2	2	3	3/3	3	3	3	
SL	1	.5	.5	50	1	0	1	2	2	2	.5	1	1	2	1	1	1/.5	1	1	1	
HRS(S)	1	.5	.5	50	1	0	1	2	2	2	.5	1	1	2	1	1	1/.5				
HRS(P)	1	.5	.5	50	.3	0	0	0	0	0	.5	0	0	0	2	.5	1/0				

d. Unit Active Air Defense Measures

	IN	AR	FA	AU	EN	SC	MP	MI	OM	OD	MM ¹	AG	FI	QM	TC	MS	AWP	CA	CS	GSS	AD
LT	2	2	3	2	2	3	2	3	3	1	3	3	3	2	2	3	4/3	2	2	2	
SL	4	1	.2	2	1	.5	1	1	1	.5	1	1	1	2	4	1	0/1	2	2	2	
HRS(S)	4	1	.2	2	1	.5	1	1	1	.5	1	1	1	2	4	1	0/1				
HRS(P)	1	.5	.2	1	0	.5	0	0	0	.2	1	0	0	1	2	0	0/.5				
CPT	2	2	3	1	2	3	2	2	2	1	3	3	2	2	1	3	2/3	1	1	1	
SL	1	1	3	2	1	1	1	2	2	1	1	1	1	2	4	1	1/.5	2	2	2	
HRS(S)	1	1	3	2	1	1	1	2	2	1	1	1	1	2	4	1	1/.5				
HRS(P)	1	1	3	1	.3	0	.5	2	2	1	.5	0	0	1	2	.5	1/0				

e. Unit Passive Air Defense Measures

	IN	AR	FA	AU	EN	SC	MP	MI	OM	OD	MM ¹	AG	FI	QM	TC	MS	AWP	CA	CS	GSS	AD
LT	2	2	3	2	2	3	2	3	3	1	3	3	3	2	2	3	4/3	2	2	2	
SL	1	.5	.2	4	1	.5	1	2	1	1	1	1	1	2	4	1	0/1	2	2	2	
HRS(S)	1	.5	.2	4	1	.5	1	2	1	1	1	1	1	2	4	1	0/1				
HRS(P)	1	.5	.2	4	0	.5	1	1	0	.5	1	0	0	1	2	1	0/.5				
CPT	2	2	3	1	2	3	2	2	2	1	3	3	2	2	1	3	2/3	1	1	1	
SL	1	.5	.2	4	1	.5	1	2	1	1	1	1	1	2	4	1	1/.5	1	1	1	
HRS(S)	1	.5	.2	4	1	.5	1	2	1	1	1	1	1	2	4	1	1/.5				
HRS(P)	1	.5	.2	4	0	.5	1	1	0	.5	1	0	0	1	2	0	1/0				

SUBJECTS

BRANCH SCHOOLS

PROPONENT

f. Visual Aircraft Recognition

	IN	AR	FA	AD	EN	SC	MP	MI	OM	UD	MM ¹	AG	F1	QM	TC	MS	AV ² p	CA	CS	CSS	AD
LT	3	2	3	2	3	3	2	3	3	3		2	2	3	3	3	4/2	2	2	2	
SL	3	2	.1	3	1	0	2	1	.2	1		2	2	2	2	2	0/3	3	3	3	
HRS(S)	1	2	.1	3	0	0	1	0	.5	0		0	0	0	2	1	0/1				
HRS(P)	1	0		3	0	1	0	0		0		0	0	0	2	1	0/1				
CPT	3	2		1	2	3	2	3	2	3		2	2	2	2	3	1/3	2	2	3	
SL	1	2		1	1	0	2	1	1	.5		2	2	3	2	1	2/1	3	4	4	
HRS(S)	1	2		1	0	0	1	1	0	0		0	0	0	2	0	2/1				
HRS(P)	1	0		1	0	1	1	1		0		0	0	0	2	0	2/1				

9. Priorities of Support on the Extended Battlefield

	IN	AR	FA	AD	EN	SC	MP	MI	OM	UD	MM ¹	AG	F1	QM	TC	MS	AV ² p	CA	CS	CSS	AD
LT	4	3	.3	2	3	4	3	3	3	3		4	4	3	2	2	4/3	2	2	2	
SL	4	1	.1	6	1	0	.5	1	0	1		0	0	0	2	1	0/1	3	3	3	
HRS(S)	0	1	.1	6	0	0	0	0	0	1		0	0	0	2	1	0/1				
HRS(P)	0	.5		6	0	0	.5	0	0	1		0	0	0	2	0	0/5				
CPT	3	2		1	3	4	3	2	1	2		3	4	2	2	2	3	1	2	3	
SL	1	2		6	1	0	.5	2	2	.5		1	0	5	2	1	.5	6	2	3	
HRS(S)	1	2		6	1	0	.5	2	2	.5		1	0	5	2	1	.5				
HRS(P)	1	1		6	.3	0	.5	2	.5			0	0	0	2	0	0				

h. Land Space Requirements in the MBA and CFA

	IN	AR	FA	AD	EN	SC	MP	MI	OM	UD	MM ¹	AG	F1	QM	TC	MS	AV ² p	CA	CS	CSS	AD
LT	4	3	.3	2	3	4	3	3	3	3		4	4	3	3	3	4/3	2	2	2	
SL	4	.5	.1	2	2	0	0	0	0	0		0	0	0	1	1	0/5	1	1	1	
HRS(S)	0	.5	.1	2	0	0	0	0	0	0		0	0	0	1	1	0/5				
HRS(P)	0	.5		2	0	0	0	0	0	0		0	0	0	1	0	0/0				
CPT	3	2		1	3	4	4	2	1	4		3	4	3	3	3	3	1	1	2	
SL	1	1		2	2	0	0	0	2	0		1	0	2	1	1	.5	2	2	2	
HRS(S)	1	1		2	2	0	0	0	2	0		1	0	2	1	1	.5				
HRS(P)	1	.5		2	.3	0	0	0	2	0		0	0	0	1	0	0				

13. Army Aviation

a. Combat Aviation

	IN	AR	FA	AD	EN	SC	MP	MI	OM	UD	MM ¹	AG	F1	QM	TC	MS	AV ² p	CA	CS	CSS	AD
LT	3	2	.3	3	3	3	3	3	2	3	3 ^h	3	3	3	3	3	3/2	2	3	3	
SL	1	2	.2	1	1	.2	1	3	2	1	1	1	1	1	1	1	1/30	6	2	2	
HRS(S)	1	2/0 ^e	.2	1	0	.2	1	0	.2	0	1	0	0	1	0	1	1/18				
HRS(P)	1	2/0 ^e		1	0	.2	1	0	.2	0	1	0	0	1	0	1	1/18				
CPT	3	1	.3	2	3	4	3	2	2	3	2 ^h	3	3	3	3	3	1/3	1	2	2	
SL	2	1	.25	2	1	0	1	2	3	0	3	1	1	2	1	1	12/1	10	6	6	
HRS(S)	2	1	.25	2	1	0	1	2	3	0	3	1	1	2	1	1	12/1				
HRS(P)	2	1	.25	2	.5	0	1	2	.2	0	3	0	0	1	0	1	12/1				

b. Combat Support Aviation

	IN	AR	FA	AD	EN	SC	MP	MI	OM	UD	MM ¹	AG	F1	QM	TC	MS	AV ² p	CA	CS	CSS	AD
LT	3	2	.3	3	3	3	3	4	2	3		3	3	3	3	3	3/2	2	3	3	
SL	1	.5	.2	1	1	.2	1	0	.1	1		1	1	1	1	0	1/8	7	3	3	
HRS(S)	1	.5	.2	1	0	.2	1	0	.1	0		1	1	1	0	0	1/8				
HRS(P)	1	0		1	0	.2	.5	0	.1	0		0	0	1	0	0	1/6				
CPT	3	2	.3	2	3	4	3	4	2	3		3	3	3	3	3	1/3	1	2	2	
SL	2	2	.5	2	1	2	1	1	2	0		1	1	2	1	1	15/1	12	7	7	
HRS(S)	2	2	.5	2	1	2	1	1	2	0		1	1	2	1	1	15/1				
HRS(P)	2	.5	.25	2	.5	2	.5	1	1	0		0	0	0	0	1	15/1				

SUBJECTS

BRANCH SCHOOLS

PROPORTION

c. Combat Service Support Aviation	LT	SL	HRS(S)	HRS(P)	IM	AR	FA	AD	EN	SC	MP	MI	OM	OD	MM ¹	AG	F1	QM	TC	MS	AW/p	CA	CS	CSS	AV	
					3	3	3	3	3	3	4	2	3	3	4	2	3	3	3	3	3	3	3	3	2	3
					1	0	0	1	0	.2	0	0	.1	0	0	0	0	1	4	2.5	1	1/8	7	2.5	2.5	
					1	0	0	1	0	.2	0	0	.1	0	0	0	0	1	4	2.5	1	1/8	7	2.5	2.5	AV
	CPT	SL	HRS(S)	HRS(P)	3	2	3	2	3	3	3	2	2	2	0	3	3	2	2	3	2/3	1	2	2	2	AV
					1	1	.5	2.2	2	0	1	0	.1	0	0	1	1	5	2	1	5/1	12	7	7		

14. Tactical Nuclear Operations:

a. Nuclear Weapons Effects	LT	SL	HRS(S)	HRS(P)	IM	AR	FA	AD	EN	SC	MP	MI	OM	OD	MM ¹	AG	F1	QM	TC	MS	AW/p	CA	CS	CSS	FA	
					3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
					1	1.5	.5	16	8	0	1	1	1	30	15	2	1	4	4	3	4	0/3	4	4	4	FA
					1	1.5	.5	8	1	0	1	1	3	1	15	0	0	4	2	1	0/10	2	4	4	FA	
	CPT	SL	HRS(S)	HRS(P)	2	2	2	2	1	3	2	2	2	2	2 ^h	1	2	2	2	2	1	3/3	1	1	1	FA
					8	12	8.4	10	4	6	2	3	100	60	44	2	2	4	4	3	11	3/1	3	3	3	

b. The Nuclear Battle

(1) Planning	LT	SL	HRS(S)	HRS(P)	IM	AR	FA	AD	EN	SC	MP	MI	OM	OD	MM ¹	AG	F1	QM	TC	MS	AW/p	CA	CS	CSS	FA	
					3	3	4	2	3	4	3	3	4	3	3	3	3	4	3	3	3	3	3	3	4	4
					4	.5	0	2	2	0	0	1	10	0	0	1	0	0	2	2	0	0/2	0	0	0	FA
					1	.5	0	2	2	0	0	1	2	0	0	0	1	3	3	0	0	0/2	0	0	0	FA
	CPT	SL	HRS(S)	HRS(P)	2	2	2	2	2	3	4	2	1	3	3	3	4	2	2	2	2	3/3	3	3	3	FA
					4	5	2.5	2	1	6	0	2	10	.5	0	0	0	2	4	6	1/2	1	1	1	FA	

(2) Tactics	LT	SL	HRS(S)	HRS(P)	IM	AR	FA	AD	EN	SC	MP	MI	OM	OD	MM ¹	AG	F1	QM	TC	MS	AW/p	CA	CS	CSS	FA	
					3	3	4	2	3	3	3	3	4	3	3	3	3	4	3	3	3	3	3	4	4	4
					2	1	0	1	1	0	0	1	5	0	0	1	0	0	2	2	0	0/2	0	0	0	FA
					1	1	0	0	0	0	0	1	0	0	0	0	1	2	2	0	0	0/2	0	0	0	FA
	CPT	SL	HRS(S)	HRS(P)	2	1	2	2	2	3	4	2	1	3	3	3	4	3	3	3	4	4/3	2	3	3	FA
					10	4	6	1	1	4	4	2	10	.5	0	0	0	2	2	2	2	3/3	3	3	3	FA

c. Nuclear Release and Employment	LT	SL	HRS(S)	HRS(P)	IM	AR	FA	AD	EN	SC	MP	MI	OM	OD	MM ¹	AG	F1	QM	TC	MS	AW/p	CA	CS	CSS	FA	
					4	3	3	1 <th>2 <th>3</th> <th>3</th> <th>4</th> <th>2</th> <th>3</th> <th>3</th> <th>4</th> <th>4</th> <th>3</th> <th>3</th> <th>4</th> <th>3</th> <th>3</th> <th>4</th> <th>4/3</th> <th>3</th> <th>3</th> <th>4</th> <th>4</th> </th>	2 <th>3</th> <th>3</th> <th>4</th> <th>2</th> <th>3</th> <th>3</th> <th>4</th> <th>4</th> <th>3</th> <th>3</th> <th>4</th> <th>3</th> <th>3</th> <th>4</th> <th>4/3</th> <th>3</th> <th>3</th> <th>4</th> <th>4</th>	3	3	4	2	3	3	4	4	3	3	4	3	3	4	4/3	3	3
					0	.5	.9	1	1	0	1	0	5	0	0	1	0	1	2	0	0/1	1	1	1	FA	
					0	.5	.2	1	2	0	.5	0	.2	0	0	0	0	1	1	1	0	0/1	1	1	FA	
	CPT	SL	HRS(S)	HRS(P)	3	3	3	1	2	3	3	4	2	1	1	3	4	3	3	3	4	4/3	2	3	4	FA
					1	.5	3.2	1	1	4	1	1	15	0	0	0	0	1	1	2	6	1/2	3	3	FA	

SUBJECTS

BRANCH SCHOOLS

PROPONENT

d. Nuclear Logistics

LT	BRANCH SCHOOLS													PROPONENT						
	IN	AR	FA	AD	EN	SC	MP	MI	CM	OD	MMT	AG	F1	QM	TC	MS	AVP	CA	CS	CSS
SL	4	4	3	3	4	3	3	4	2	4	4	4	4	4	3	4	4/3	4	4	3
HRS(S)	0	0	1	1	0	0	1	0	2	0	0	0	0	0	2	0	0/1	0	0	1
HRS(P)	0	0	.1	0	0	0	1	0	0	0	0	0	0	1	0	0/1	0/1	0	0	1

e. Reconstitution

CPT	BRANCH SCHOOLS													PROPONENT						
	IN	AR	FA	AD	EN	SC	MP	MI	CM	OD	MMT	AG	F1	QM	TC	MS	AVP	CA	CS	CSS
SL	4	3	2	2	3	3	3	4	1	4	4	4	4	3	3	3	3/3	3	3	2
HRS(S)	0	.5	4	1	1	0	1	0	5	0	0	0	0	1	2	6	1/2	1	1	3
HRS(P)	0	.5	4	1	.3	0	1	0	1	0	0	0	0	1	0	1/2	1/2	1	1	3

f. C³ on the Nuclear Battlefield

LT	BRANCH SCHOOLS													PROPONENT						
	IN	AR	FA	AD	EN	SC	MP	MI	CM	OD	MMT	AG	F1	QM	TC	MS	AVP	CA	CS	CSS
SL	3	3	2	1	3	3	2	3	2	3	3	3	3	3	3	4	4/3	1	1	1
HRS(S)	1	2	1	1	1	2	2	2	3	2	1	1	1	3	2	0	0/1	4	4	4
HRS(P)	1	0	0	1	1	0	1	0	.2	0	0	0	1	1	1	0	0/1	4	4	4

g. Engineer Operations:

CPT	BRANCH SCHOOLS													PROPONENT						
	IN	AR	FA	AD	EN	SC	MP	MI	CM	OD	MMT	AG	F1	QM	TC	MS	AVP	CA	CS	CSS
SL	2	1	2	1	2	2	2	2	1	3	3	3	2	2	2	3	3	1	1	1
HRS(S)	2	2	1	1	1	4	4	1	5	.2	1	1	4	2	6	1	1	4	4	4
HRS(P)	2	0	1	1	1	4	4	2	1	.2	0	0	1	1	0	1	1	4	4	4

h. Mobility

LT	BRANCH SCHOOLS													PROPONENT						
	IN	AR	FA	AD	EN	SC	MP	MI	CM	OD	MMT	AG	F1	QM	TC	MS	AVP	CA	CS	CSS
SL	1	2	3	2	1	3	3	3	2	3	3h	4	3	3	4	3	4/3	3	3	3
HRS(S)	2	1	.5	1	125	0	1	1	1	.5	1	0	1	1	0	1	0/5	4	4	3
HRS(P)	1	1	0	1	101	0	.5	1	1	.2	1	0	0	0	0	0/5	0/5	4	4	2

i. Countermobility

CPT	BRANCH SCHOOLS													PROPONENT						
	IN	AR	FA	AD	EN	SC	MP	MI	CM	OD	MMT	AG	F1	QM	TC	MS	AVP	CA	CS	CSS
SL	1	1	3h	2	1	3	3	3	1	3	2h	3	3	3	3	3	3/3	2	3	3
HRS(S)	2	2	4	2	25	1	1	1	3	.5	5	1	1	2	1	1	1/1	12	4	4
HRS(P)	2	2	4	2	21	1	.5	1	1	.5	5	0	0	0	0	0/1	0/1	4	4	4

j. Countermobility

CPT	BRANCH SCHOOLS													PROPONENT						
	IN	AR	FA	AD	EN	SC	MP	MI	CM	OD	MMT	AG	F1	QM	TC	MS	AVP	CA	CS	CSS
SL	1	1	3	2	1	4	3	3	2	3	3	4	4	3	3	3	4/3	2	3	3
HRS(S)	5	8	.5	1	75	0	1	1	1	.5	5	0	0	1	0	1	0/5	4	4	2
HRS(P)	1	8	0	1	50	0	0	0	1	.2	5	0	0	0	0	0/5	0/5	4	4	2

k. Countermobility

CPT	BRANCH SCHOOLS													PROPONENT						
	IN	AR	FA	AD	EN	SC	MP	MI	CM	OD	MMT	AG	F1	QM	TC	MS	AVP	CA	CS	CSS
SL	1	1	3	2	1	4	3	3	1	3	3	4	4	3	3	3	4/3	2	3	3
HRS(S)	7	6	6	2	25	0	1	1	1	.5	5	0	0	2	1	1/1	1/1	12	4	4
HRS(P)	7	6	6	2	15	0	0	0	1	.5	5	0	0	2	1	0/1	0/1	12	4	4

SUBJECTS

BRANCH SCHOOLS

PROFICIENT

SUBJECTS	LT	SL	IN			AR			FA	AU	LN	SC	MP	MI	CM	OD	MM ¹	AG	FI	QM	TC	MS	AWP	CA	CS	CSS	EN
			HRS(S)	HRS(P)	2	2	3	1																			
c. Survivability	LT	SL	1	2	3	2	2	1	4	3	3	2	2	2	2	3		4	3	3	4	3	4/3	3	3	3	
		HRS(S)	12	2	1	1	50	0	1	1	1	1	0	0	0	0	0	0	0	2	2	0	1	0/5	4	4	2
		HRS(P)	8	2	0	1	27	0	0	0	1	1	0	0	0	0	0	0	0	0	2	0	0	0	0/5		

CPT	SL	1	1	1	2	1	4	3	3	2	2	3	3	2	3		4	4	3	3	3	3/3	2	3	3	
	HRS(S)	4	1	1	2	25	0	1	1	1	1	0	0	0	0	0	0	0	2	2	2	1	1/1	12	4	4
	HRS(P)	1	1	1	2	13	0	0	0	1	1	1	1	1	1	0	0	0	0	0	0	0	0/1			

SUBJECTS	LT	SL	IN			AR			FA	AU	LN	SC	MP	MI	CM	OD	MM ¹	AG	FI	QM	TC	MS	AWP	CA	CS	CSS	EN
			HRS(S)	HRS(P)	2	2	3	1																			
d. General Engineering	LT	SL	3	3	3	2	2	1	3	3	3	2	2	2	2	3		4	4	3	4	3	3/3	3	3	3	
		HRS(S)	1	1	0	1	175	0	1	1	1	1	0	0	0	0	0	0	0	1	1	0	0	0	0	0	2
		HRS(P)	1	1	0	1	152	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1

CPT	SL	3	2	2	2	1	3	3	3	3	1	3	3	1	3		4	4	3	3	3	3/3	3	3	3
	HRS(S)	1	2	2	2	340	0	1	1	1	2	0	0	0	0	0	0	0	1	1	1	0	0	0	0
	HRS(P)	1	2	2	2	300	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

SUBJECTS	LT	SL	IN			AR			FA	AU	LN	SC	MP	MI	CM	OD	MM ¹	AG	FI	QM	TC	MS	AWP	CA	CS	CSS	EN
			HRS(S)	HRS(P)	2	2	3	1																			
e. Atomic Demolition Munition (ADM) Operations	LT	SL	4	3	3	3	3	1	4	3	4	2	2	2	2	3		4	4	4	4	4	4/3	3	3	3	
		HRS(S)	0	0	0	1	6	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		HRS(P)	0	0	0	0	12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	

CPT	SL	3	3	3	3	1	4	3	3	4	1	4	4	1	4		4	4	3	3	3	3/3	3	3	3
	HRS(S)	1	0	0	1	4	0	1	0	0	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	HRS(P)	1	0	0	1	4	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	1

16. NBC Warfare:

SUBJECTS	LT	SL	IN			AR			FA	AU	LN	SC	MP	MI	CM	OD	MM ¹	AG	FI	QM	TC	MS	AWP	CA	CS	CSS	EN
			HRS(S)	HRS(P)	2	2	3	1																			
a. U.S. Policy	LT	SL	3	1	2	1	1	3	1	3	2	1	3	2	1	3		4	4	3	3	3	4/3	2	2	2	
		HRS(S)	1	.5	1	1	1	1	1	.2	.5	1	2	1	2	1	20	0	1	1	2	1	0/1	1	1	1	
		HRS(P)	1	.5	.2	1	1	.2	.5	1	2	1	2	1	2	1	3	0/1									

CPT	SL	3	1	2	1	1	3	1	3	1	1	3	1	1	3		4	4	3	3	3	3	3	2	2
	HRS(S)	1	.5	1	1	1	1	1	.2	.5	4	2	1	2	1	20	0	1	1	2	1	1	1	1	1
	HRS(P)	1	.5	2.5	1	.5	2	.5	4	2	2	.2	2	2	2	20	0	0	0	1	1	1	1	1	1

SUBJECTS	LT	SL	IN			AR			FA	AU	LN	SC	MP	MI	CM	OD	MM ¹	AG	FI	QM	TC	MS	AWP	CA	CS	CSS	EN
			HRS(S)	HRS(P)	2	2	3	1																			
b. Threat Policy	LT	SL	3	2	2	1	1	3	1	3	1	2	2	3	1	3		4	4	3	3	3	4/3	2	2	2	
		HRS(S)	1	.5	.5	1	1	1	.2	1	1	1	0	1	1	3	0	1	1	1	2	1	0/1	2	2	2	
		HRS(P)	1	.5	.2	1	1	.2	1	1	1	1	0	1	1	1	1	0/1									

CPT	SL	3	1	2	1	1	3	1	3	1	2	2	3	1	3		4	4	3	3	3	4/3	2	2	2
	HRS(S)	1	1	2	1	1	1	1	.2	1	1	0	1	1	3	0	1	1	1	2	1	0/1	2	2	2
	HRS(P)	1	1	1	1	1	.5	4	1	1	1	0	1	1	1	1	0	0	0	4	1	1	1	1	1

SUBJECTS

BRANCH SCHOOLS

PROPONENT

SUBJECTS	CPT	LT	BRANCH SCHOOLS													PROPONENT							
			IN	AR	FA	AD	EN	SC	MP	MI	CM	OD	MM1	AG	FI	QM	TC	MS	AVJp	CA	CS	CSS	
c. Survivability	SL	1	1	1	1	1	2	3	2	2	2	1	1	1	1	1	1	1	1	2	2	2	
	HRS(S)	16	25	40	2	3	.5	32	5	40	18	8	4	4	4	2	19	0/2	4/3	13	13	13	
	HRS(P)	8	16	.2	2	6	.5	18	5	30	15	6	8	8	4	3	19	0/2	0/2				
d. Offensive Use	SL	1	1	1	1	2	3	1	1	1	1	1	2	2	2	2	1	1	3/2	1	1	1	
	HRS(S)	15	2	30	1	4	1	46	5	45	26	8	4	4	4	3.5	2	5/5	5/5	12	12	10	
	HRS(P)	10	2	2	1	4	0	32	3	25	15	4	8	4	8	2	2	5/5	5/5				
e. Defensive Use	SL	3	2	2	2	3	4	3	3	2	3	3	3	3	3	3	3	3	4/3	2	2	2	
	HRS(S)	1	.5	5	1	1	0	1	5	60	.2	2	4	8	1.5	1	0	0/2	4/3	6	6	6	
	HRS(P)	1	.5	.2	1	2	3	0	5	0	0	0	0	7	1	0	0/2	0/2					
f. Reconstitution	SL	3	2	2	2	3	2	3	3	1	1	3	2	2	2	3	2	3/3	1	1	1		
	HRS(S)	1	.5	30	1	2	7	1	5	100	.2	2	4	8	1	3	3	.5/1	3/3	15	15	15	
	HRS(P)	1	.5	4	1	.5	5	0	2	1	0	0	0	7	1	3	3	.5/1					
g. NBC Logistics	SL	4	1	1	1	3	3	2	3	3	3	3	2	2	2	4	3	3	3	1	1	1	
	HRS(S)	0	2	3	1	1	2	2	3	10	0	1	4	3	0	1	0	1	1	2/2	3	3	3
	HRS(P)	0	1	.2	1	.5	0	0	3	0	0	0	0	0	0	1	0	1	1	4/2	4/2	4/2	
9. NBC Logistics	SL	3	3	3	2	4	3	3	4	1	3	3	4	3	3	3	3	4/3	4/3	2/2	2/2	2/2	
	HRS(S)	2	1.5	2	1	0	0	0	1	15	3	1	0	2	1	1	0	0/2	0/2	4/2	4/2	4/2	
	HRS(P)	1	.5	.2	0	0	0	.5	0	5	3	0	0	0	1	0	0	0/2	0/2				
CPT	SL	3	1	3	1	3	3	3	2	2	3	3	2	2	3	3	3	3/3	1/1	1/1	1/1		
	HRS(S)	4	2	2	2	3	3	3	1	30	0	3	4	3	3	3	3	1/2	3/3	4/2	4/2	7/2	
	HRS(P)	4	1	3.4	2	.5	0	.5	1	4	0	0	0	0	0	0	0	1/2	1/2				

SUBJECTS

BRANCH SCHOOLS

PROFICIENT

IN AR FA AU EN SC MP MI OM OD MM¹ AG F1 (M TC NS App CA CS CSS

17. Electronic Warfare:

a. Electronic Warfare Support Measures (ESM) (Intercepting, Identifying, Locating)

LT	SL	HRS(S)	HRS(P)	IN	AR	FA	AU	EN	SC	MP	MI	OM	OD	MM ¹	AG	F1	(M	TC	NS	App	CA	CS	CSS	MI
		3	2	2	2	2	3	4	3	3	4	2	3	3 ^h	4	4	3	3	3	3	4/3	3	4	4
		2	1	.9	1	.1	1	0	1	1	0	2	0	3	0	0	1	1	0	0/1	1	0	0	
		2	1	.1	1		1	0	1	0	0	0	0	3	0	0	0	1	0	0/1				

b. Electronic Countermeasures (ECM)(Jamming, Electronic Deception)

LT	SL	HRS(S)	HRS(P)	IN	AR	FA	AU	EN	SC	MP	MI	OM	OD	MM ¹	AG	F1	(M	TC	NS	App	CA	CS	CSS	MI
		2	2	2	2	2	3	3	3	3	4	2	3	3	4	4	3	3	3	4/3	2	3	3	
		1	5	.9	2	.1	2	1	1	1	0	2	1	1	0	0	1	1	1	0/1	3	1	1	
		1	3	.1	2		2	1	1	.5	0	.2	1	1	0	0	0	1	0	0/1				

c. Signal Security

LT	SL	HRS(S)	HRS(P)	IN	AR	FA	AU	EN	SC	MP	MI	OM	OD	MM ¹	AG	F1	(M	TC	NS	App	CA	CS	CSS	MI/SC
		1	2	2	2	2	2	3	3	3	4	2	3	3	3	3	3	2	2	4/3	2/2	3/2	3/2	
		6	6	.9	4	.2	4	2	1	2	0	1	4	4	2	2	3	2	1	0/2	3/3	1/3	1/3	
		5	4	.2	4		4	2	1	1	0	.2	4	4	2	2	2	3	3	0/2				

d. Integrated Operations with Tactics

LT	SL	HRS(S)	HRS(P)	IN	AR	FA	AU	EN	SC	MP	MI	OM	OD	MM ¹	AG	F1	(M	TC	NS	App	CA	CS	CSS	MI
		1	2	2	2	2	3	4	3	3	4	2	3	3	4	4	3	3	3	4/3	2	3	3	
		10	6	.9	1	0	1	0	1	2	0	2	0	0	0	0	1	3.5	1	0/1	1	1	1	
		2	2	0	1	0	1	0	1	1	0	.2	0	0	0	0	8	0	0/1					

CPT SL HRS(S) HRS(P)

1	1	2	2	2	2	2	3	3	3	3	4	2	3	3	3	3	2	2	2	3/3	1/2	2/2	2/2	MI
2	2	2.5	2.5	2	2	2	3	3	3	2	18	3	.2	.2	0	0	1	2	1	1	3	2	2	2
5	0	2.5	2	2	3	3	3	3	3/0c	1	18	2	.2		0	0	1	2	1	1	2	2	2	MI

SUBJECTS	BRANCH SCHOOLS													PROPOONENT								
	IN	AR	FA	AD	EN	SC	HP	MI	OM	OD	MM ¹	AG	F1	QM	TC	MS	AWp	CA	CS	CSS		
18. Intelligence:	a. Electromagnetic Intelligence	LI	SL	4	2	3	3	3	3	3	3	3	3	3	3	3	3	4/3	4	4	4	
			HRS(S)	0	1	2	1	1	0	.5	1	.2	0	0	0	0	1	1	0/1	0	0	0
		CPT	SL	3	2	3	2	3	3	1	2	3	2 ^h	4	4	3	3	3	3/3	4	4	4
			HRS(S)	1	1	2	7	1	0	1	10	1	5	0	0	0	1	1	1/1	0	0	0
		HRS(P)	0	0	0	1	0	0	1	0	.1	0	0	0	0	1	0	0/1	0	0	0	
	MI																					
	b. Imagery Intelligence	LI	SL	3	3	3	3	3	3	3	3	3	4	4	4	3	3	4/3	3	4	4	
			HRS(S)	1	.5	.5	1	1	0	.5	1	.2	0	0	0	0	1	1	0/1	1	0	0
		CPT	SL	3	3	3	3	3	3	2	2	3	4	4	3	3	3	3/3	3	4	4	
			HRS(S)	1	1	1	1	1	0	1	3	1	0	0	0	1	2	0/1	1	0	0	
HRS(P)		1	0	.1	1	0	0	0	0	.1	0	0	0	0	1	2	0/0	0	1	0		
	MI																					
c. Human Intelligence	LI	SL	2	3	3	3	3	3	2	3	3	3	3	3	3	3	4/3	2	3	3		
			HRS(S)	1	1	2	1	1	0	1	6	1	0	1	1	2	1.5	1	1/1	2	1	1
		CPT	SL	2	3	3	2	3	3	2	1	2	3	3	2	2	3	3/3	2	3	3	
			HRS(S)	1	1	2	1	1	0	.5	6	.1	0	0	0	1	3	0/1	2	1	1	
		HRS(P)	1	.5	6	1	.3	0	.5	6	.1	0	0	0	1	3	0/1	0	1	0	1	
	MI																					
	d. Counter-intelligence	LI	SL	3	3	3	3	3	3	3	3	2	2	3	3	3	4/3	2	3	3		
			HRS(S)	1	.5	1	1	1	0	.5	1	.2	0	0	0	1	1	0/1	2	1	1	
		CPT	SL	3	3	3	3	3	3	1	2	3	2	2	3	3	3/3	2	3	3		
			HRS(S)	1	1	1	1	1	0	1	25	2	0	0	0	1	1	1/1	2	1	1	
HRS(P)		1	.5	6	0	.3	0	.5	25	.1	0	0	0	1	1	0/1	0	1	1			
	MI																					
e. Intelligence Preparation of the Battlefield	LI	SL	2	2	3	3	3	3	3	3	3	4	4	4	3	4/3	2	3	3			
			HRS(S)	1	1	1	1	1	0	1	1	.5	0	0	0	1	0/1	1	1	1		
		CPT	SL	2	2	3	3	3	3	1	2	3	4	4	3	3	3/3	2	3	3		
			HRS(S)	1	1	1	1	1	0	1	2	2	0	0	0	1	0/1	1	1	1		
		HRS(P)	1	0	.2	0	0	0	0	0	0	0	0	0	0	0	0/1	0	1	1		
	MI																					

SUBJECTS

BRANCH SCHOOLS

PROPIEMENT

(c) Sea	LT	BRANCH SCHOOLS											PROPIEMENT			TC					
		IN	AR	FA	AD	EN	SC	MP	MI	CM	OD	MM ¹	AG	F1	QM		TC	MS	AW ¹ p	CA	CS
SL	4	3	3	3	2	4	3	4	2	2	4	4	4	3	2	2	4/3	3	3	3	
HRS(S)	0	.5	.5	1	1	0	.5	0	.5	1	0	0	0	3	5	2	0/2	4	4	4	
HRS(P)	0	0	0	0	0	0	0	0	0	0	0	0	0	1	2	0	0/5				

CPT	SL	HRS(S)	HRS(P)	BRANCH SCHOOLS											PROPIEMENT			TC			
				IN	AR	FA	AD	EN	SC	MP	MI	CM	OD	MM ¹	AG	F1	QM		TC	MS	AW ¹ p
SL	4	2	3	3	2	4	3	2	2	1	4	3	2	2	1	3/3	3	3	3		
HRS(S)	0	2	.5	1	1	0	.5	0	0	2	0	0	1	3	13	3	.5/2	2	2	2	
HRS(P)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6	0	.5/0				

(2) Convoy Operations	LT	BRANCH SCHOOLS											PROPIEMENT			TC					
		IN	AR	FA	AD	EN	SC	MP	MI	CM	OD	MM ¹	AG	F1	QM		TC	MS	AW ¹ p	CA	CS
SL	3	1	3	2	2	3	2	3	2	2	1	2	2	3	2	2	4/3	2	2	2	
HRS(S)	0	2	.1	1	2	1	2	1	14	3	1	0	2	2	7	13	0/2	4	4	4	
HRS(P)	0	0	0	1	4	1	14	0	0	0	2	0	0	3	20	0	0/5				

CPT	SL	HRS(S)	HRS(P)	BRANCH SCHOOLS											PROPIEMENT			TC			
				IN	AR	FA	AD	EN	SC	MP	MI	CM	OD	MM ¹	AG	F1	QM		TC	MS	AW ¹ p
SL	3	1	3	1	2	3	1	2	3	1	20	2	2	2	2	1	3/3	2	2	2	
HRS(S)	0	2	.2	2	2	0	1	20	0	0	0	0	0	4	4	10	1/1	1	1	1	
HRS(P)	0	0	0	0	0	0	0	0	0	0	0	0	0	2	2	0	1/0				

(3) Movement Control	LT	BRANCH SCHOOLS											PROPIEMENT			TC					
		IN	AR	FA	AD	EN	SC	MP	MI	CM	OD	MM ¹	AG	F1	QM		TC	MS	AW ¹ p	CA	CS
SL	3	2	3	2	3	3	3	3	2	3	3	2	2	2	2	2	4/3	2	2	2	
HRS(S)	1	1	.1	1	1	0	0	4	4	0	0	0	0	0	7	7	0/2	2	2	3	
HRS(P)	1	0	0	1	1	0	4	4	0	0	0	0	0	0	2	2	0/5				

CPT	SL	HRS(S)	HRS(P)	BRANCH SCHOOLS											PROPIEMENT			TC			
				IN	AR	FA	AD	EN	SC	MP	MI	CM	OD	MM ¹	AG	F1	QM		TC	MS	AW ¹ p
SL	3	1	3	1	3	1	3	3	2	2	1	2	2	2	2	1	3	2	2	2	
HRS(S)	1	1	.2	2	1	0	4	4	5	2	3	1	1	4	8	3	1	1	1	1	
HRS(P)	1	1	0	1	1	0	4	4	0	0	0	0	0	4	6	0	0				

(4) Aviation Logistics	LT	BRANCH SCHOOLS											PROPIEMENT			TC					
		IN	AR	FA	AD	EN	SC	MP	MI	CM	OD	MM ¹	AG	F1	QM		TC	MS	AW ¹ p	CA	CS
SL	4	4	3	3	4	4	4	4	4	2	3	2	2	3	3	3	3/3	2	2	2	
HRS(S)	0	0	.1	1	0	0	0	0	0	0	1	0	0	3	2.5	2	1/2	2	2	2	
HRS(P)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	1/1				

CPT	SL	HRS(S)	HRS(P)	BRANCH SCHOOLS											PROPIEMENT			TC			
				IN	AR	FA	AD	EN	SC	MP	MI	CM	OD	MM ¹	AG	F1	QM		TC	MS	AW ¹ p
SL	3	4	3	3	3	3	4	4	2	2	3	4	4	2	2	3	2/3	2	2	2	
HRS(S)	1	0	.1	1	1	1	1	1	0	0	0	0	0	0	6	5.5	20/1	1	1	1	
HRS(P)	1	0	.1	0	0	0	3	0	0	0	0	0	0	0	0	0	20/0				

b. Ammunition

(1) Support Structure and Requisitioning	LT	BRANCH SCHOOLS											PROPIEMENT			TC					
		IN	AR	FA	AD	EN	SC	MP	MI	CM	OD	MM ¹	AG	F1	QM		TC	MS	AW ¹ p	CA	CS
SL	3	3	2	3	3	4	3	4	2	2	3	2	2	2	2	3	4/3	2	2	2	
HRS(S)	1	1	1.7	1	1	0	0	1	0	0	.5	0	1	0	2	0/0	0/5	4	4	4	
HRS(P)	1	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0					

CPT	SL	HRS(S)	HRS(P)	BRANCH SCHOOLS											PROPIEMENT			TC			
				IN	AR	FA	AD	EN	SC	MP	MI	CM	OD	MM ¹	AG	F1	QM		TC	MS	AW ¹ p
SL	3	1	2	2	2	4	2	3	2	2	1	2	2	2	2	3	3	2	2	2	
HRS(S)	1	1	2.5	2	1	0	0	1	1	0	.5	0	1	1	4	1	.5	2	2	2	
HRS(P)	1	1	.4	0	0	0	0	0	0	0	0	0	0	0	0	0	0				

SUBJECTS

BRANCH SCHOOLS

PROPOONENT

(2) Safety, Storage, and Transportation	LT	BRANCH SCHOOLS													PROPOONENT								
		IN	AR	FA	AU	EN	SC	MP	MI	OM	OD	MM ¹	AG	F1	QM	TC	MS	AV ¹ P	CA	CS	CSS		
	SL	2	2	2	2	3	4	3	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
	HRS(S)	2	2	1.5	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	HRS(P)	2	2	0	.5	0	0	0	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1
	AV ¹ P	4/3	0/5	0/0																			

(3) Supply Rates and DAO Functions	LT	BRANCH SCHOOLS													PROPOONENT								
		IN	AR	FA	AU	EN	SC	MP	MI	OM	OD	MM ¹	AG	F1	QM	TC	MS	AV ¹ P	CA	CS	CSS		
	SL	3	3	2	4	3	4	3	4	2	4	3	4	2	3	3	3	3	4	2	2	2	2
	HRS(S)	1	.5	0	0	1	0	.5	0	0	.5	0	0	0	1	1	1.5	1	0/5	4	4	4	4
	HRS(P)	1	0	0	0	0	0	0	0	.5	1	5	0	0	7	0	0	0/0	2	2	2	2	2
	AV ¹ P	0/5	0/0																				

(4) Munitions Identification	LT	BRANCH SCHOOLS													PROPOONENT								
		IN	AR	FA	AU	EN	SC	MP	MI	OM	OD	MM ¹	AG	F1	QM	TC	MS	AV ¹ P	CA	CS	CSS		
	SL	2	1	2	2	2	3	4	4	2	4	3	4	2	3	3	3	3	4	2	2	2	2
	HRS(S)	6	2	.5	2	1	0	0	0	1	1	3	3	4	4	1.5	2	0	0/5	2	2	2	2
	HRS(P)	6	2	.5	0	0	0	0	1	1	1	3	3	4	0	0	0/0	2	2	2	2	2	2
	AV ¹ P	0/5																					

(5) Emergency Destruction Procedures	LT	BRANCH SCHOOLS													PROPOONENT								
		IN	AR	FA	AU	EN	SC	MP	MI	OM	OD	MM ¹	AG	F1	QM	TC	MS	AV ¹ P	CA	CS	CSS		
	SL	3	3	2	3	2	4	2	2	2	3	3	4	3	3	3	3	3	4	2	2	2	2
	HRS(S)	3	1	.7	1	1	0	1	1	1	1	1	1	1	1	1	1	1	0/5	2	2	2	2
	HRS(P)	3	0	.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	2	2	2	2	2
	AV ¹ P	4/3	0/5																				

(6) EOD Operations	LT	BRANCH SCHOOLS													PROPOONENT								
		IN	AR	FA	AU	EN	SC	MP	MI	OM	OD	MM ¹	AG	F1	QM	TC	MS	AV ¹ P	CA	CS	CSS		
	SL	3	3	3	3	3	3	3	4	2	1	1	1	1	1	1	1	1	4	3	3	3	3
	HRS(S)	1	.5	1	1	1	0	1	0	1	0	1	0	1	1	1	1	1	0/5	2	2	2	2
	HRS(P)	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0/0	2	2	2	2	2
	AV ¹ P	4/3	0/5																				

CPT	SL	BRANCH SCHOOLS													PROPOONENT								
		IN	AR	FA	AU	EN	SC	MP	MI	OM	OD	MM ¹	AG	F1	QM	TC	MS	AV ¹ P	CA	CS	CSS		
	3	3	3	2	2	2	3	4	2	2	3	3	4	3	3	3	3	3	3/3	3	3	3	3
	HRS(S)	1	.5	1	1	1	0	1	0	1	0	1	0	1	1	1	1	1	1/5	1	1	1	1
	HRS(P)	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0/0	1	1	1	1	1
	AV ¹ P	1/5																					

SUBJECTS

BRANCH SCHOOLS

PROPOONENT

C. Maintenance

	IN	AR	FA	AV	EN	SC	MP	MI	OM	UD	MW	AG	F1	QM	TC	MS	AWP	CA	CS	CSS	UD	
(1) Recovery and Evacuation	LT																					
	SL	2	2	3	2	3	2	2	2	2	2	4	3	3	2	2	3/3	3	3	2		
	HRS(S)	8	8	1	1	.3	1	2	1	18	2	0	0	1	6	5.5	3	4	4	18		
	HRS(P)	8	8	.1	1	.3	0	2	.5	18	2	0	0	0	8	0	.5/1					
(2) Command and Staff Management of Preventive Maintenance	CPT																					
	SL	2	1	3	2	3	2	1	2	1	1	4	3	2	1	1	3/3	2	2	1		
	HRS(S)	1	8	2.2	2	2	2	1	3	6	2	0	1	2	4.2	4	1/2	2	3	6		
	HRS(P)	1	8	.3	0	1	0	2	.5	6		0	0	0	2	0	1/1					
	LT																					
	SL	2	2	2	3	1	3	2	2	2	1	2	1	3	2	1	1	3/3	2	2	1	
	HRS(S)	4	1	3.1	6	.7	2	2	1	4	2	4	1	8	6	3	1/4	4	4	4		
	HRS(P)	2	1	.5	6		2	2	.5	4	2	0	0	8	24	0	1/1					
(3) Repair Parts Supply (PLL)	CPT																					
	SL	2	1	1	1	3	2	2	2	1	1	1	3	2	1	1	3/2	1	1	1		
	HRS(S)	12	24	8	6	2	2	3	1	3	4	4	1	4	6	4	2/4	8	3	3		
	HRS(P)	12	24	8	6	0	2	3	4	4		0	0	3	1	0	2/4					
	LT																					
	SL	2	3	3	2	2	2	3	2	2	2	2	3	2	1	1	3/3	2	2	2		
	HRS(S)	6	8	12	9	5	4	6	2	10	4	1	2	16	8	3	2/2	3	3	8		
	HRS(P)	3	7	10	9	4	0	6	4	10	4	0	0	8	8	0	1/1					
(4) Preventive Maintenance Checks and Services (PMCS)	CPT																					
	SL	2	1	2	1	2	2	2	1	1	1	3	3	1	1	1	3/2	2	2	2		
	HRS(S)	6	12	12	7	4	4	5	2	4	4	1	2	4	8	4	3/2	4	4	8		
	HRS(P)	6	6	12	7	4	4	5	3	3	4	0	0	3	7	0	3/2					
	LT																					
	SL	1	2	2	2	1	2	3	2	2	2	2	1	2	1	1	3/2	2	2	2		
	HRS(S)	30	15	4.2	19	3	2	3	1	4	4	4	8	11	5.5	3	.5/10	10	10	4		
	HRS(P)	25	11	4.2	19	3	2	3	2	4	4	0	0	14	2	0	.5/10					
CPT	SL	1	1	2	1	2	2	2	2	1	1	1	2	1	1	1	2/2	2	2	1		
	HRS(S)	8	8	5	9	4	5	5	2	4	4	4	4	32	6	4	2/4	4	4	4		
	HRS(P)	8	5	5	3	0	2	2	2	2	6	0	0	30	1	0	2/4					

SUBJECTS

BRANCH SCHOOLS

PROPONENT

(5) The Army Maintenance Management System (TAMMS)	LT	BRANCH SCHOOLS										PROPONENT											
		IN	AR	FA	AU	EN	SC	MP	MI	CM	OD	MM ¹	AG	F1	QM	TC	MS	AW ¹ P	CA	CS	CSS		
	SL	2	2	2	2	1	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
	HRS(S)	10	15	6.7	9	4	11	15	5	2	6	8	2	1	4	14	10	3	3	3	3	6	6
	HRS(P)	9	12	1.7	9	4	11	15	5	6	9	8	2	2	2	12	12	0	1/0	1/0	1/0	1/0	1/0

d. Manpower

(1) Account-ability	LT	BRANCH SCHOOLS										PROPONENT											
		IN	AR	FA	AU	EN	SC	MP	MI	CM	OD	MM ¹	AG	F1	QM	TC	MS	AW ¹ P	CA	CS	CSS		
	SL	1	3	4	3	3	3	2	4	2	3	2	4	2	3	2	2	1	1	2	2	2	2
	HRS(S)	1	.5	0	2	1	0	1	0	.5	8	11	16	2	2	3	3	3	3	2/.5	2/.5	2/0	2/0
	HRS(P)	1	0	0	0	0	0	0	0	0	8	11	6	2	2	2	0	2	2	2/0	2/0	2/0	2/0

(2) Estimates	LT	BRANCH SCHOOLS										PROPONENT											
		IN	AR	FA	AU	EN	SC	MP	MI	CM	OD	MM ¹	AG	F1	QM	TC	MS	AW ¹ P	CA	CS	CSS		
	SL	3	4	4	3	3	3	2	4	2	3	2	4	2	3	3	3	1	3/3	3	3	3	3
	HRS(S)	1	0	0	1	1	0	1	0	.5	2	2	1	1	1	2	1.5	3	3	.5/.5	.5/.5	.5/0	.5/0
	HRS(P)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	.5/0	.5/0	.5/0	.5/0

(3) Casualty Reporting/Notification	LT	BRANCH SCHOOLS										PROPONENT											
		IN	AR	FA	AU	EN	SC	MP	MI	CM	OD	MM ¹	AG	F1	QM	TC	MS	AW ¹ P	CA	CS	CSS		
	SL	3	2	3	3	2	3	2	4	2	3	2	4	2	3	3	3	3	3/3	2	2	2	3
	HRS(S)	1	1	.5	1	1	0	0	0	.5	0	0	0	0	0	0	0	0	0	.5/0	.5/0	.5/0	.5/0
	HRS(P)	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	.5/0	.5/0	.5/0	.5/0

(4) Replacements	LT	BRANCH SCHOOLS										PROPONENT											
		IN	AR	FA	AU	EN	SC	MP	MI	CM	OD	MM ¹	AG	F1	QM	TC	MS	AW ¹ P	CA	CS	CSS		
	SL	3	2	4	3	2	3	2	4	2	3	2	4	2	3	3	3	2	3/3	2	2	2	2
	HRS(S)	1	1	0	1	1	0	1	0	.5	0	0	0	0	0	0	0	0	0	.5/0	.5/0	.5/0	.5/0
	HRS(P)	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	.5/0	.5/0	.5/0	.5/0

CPT	SL	BRANCH SCHOOLS										PROPONENT											
		IN	AR	FA	AU	EN	SC	MP	MI	CM	OD	MM ¹	AG	F1	QM	TC	MS	AW ¹ P	CA	CS	CSS		
	SL	3	1	3	2	2	3	1	2	2	3	1	2	2	3	2	2	3	3	2	2	2	2
	HRS(S)	1	1	.2	1	1	0	1	0	1	0	0	0	0	0	0	0	0	0	0/1	0/1	0/1	0/1
	HRS(P)	1	1	.2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0/1	0/1	0/1	0/1

SUBJECTS

BRANCH SCHOOLS

PROPORTION

(5) Health Care

	IN	AR	FA	AD	EN	SC	MP	MI	OM	UD	MMI	AG	FI	QM	TC	MS	AWP	CA	CS	CSS	QM	
(a) Treatment of Casualties (First Aid)	LT	SL	1	1	2	2	2	2	2	2	2	1	2	2	2	2	1	3/2	1	1	1	4
	HRS(S)	HRS(P)	4	0	1	2	8	4	3	8	0	4	2	2	16	4.5	12	.5/1	4	4	4	4
CPT	SL	1	1	2	2	2	2	2	2	2	1	2	2	2	2	1	2/2	1	1	1	4	
HRS(S)	HRS(P)	2	0	.5	0	3	8	5	8	0	1	2	2	8	3.5	3	1/5	4	4	4	4	

	IN	AR	FA	AD	EN	SC	MP	MI	OM	UD	MMI	AG	FI	QM	TC	MS	AWP	CA	CS	CSS	QM
(b) Medical Evacuation	LT	SL	1	2	3	2	2	3	2	3	1	1	1	1	3	3	1	3/3	2	2	2
	HRS(S)	HRS(P)	2	1	.2	2	2	3	1	1	1	1	1	0	6.5	1	.5/1	2	2	2	2
CPT	SL	1	2	3	2	2	2	3	2	3	1	1	1	3	3	1	.5/1	2	2	2	
HRS(S)	HRS(P)	2	0	.5	0	3	8	5	8	0	1	2	2	8	3.5	3	1/5	4	4	4	

	IN	AR	FA	AD	EN	SC	MP	MI	OM	UD	MMI	AG	FI	QM	TC	MS	AWP	CA	CS	CSS	QM
e. Supply	LT	SL	2	2	2	2	2	2	2	2	1	2	2	2	2	2	1	3/3	2	2	2
	HRS(S)	HRS(P)	8	8	3.4	18	8	19	34	17	10	90	185	86	185	7	10	327	14	18	5/2
CPT	SL	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	1	3/3	2	2	
HRS(S)	HRS(P)	8	16	12	7	23/250C	17	20	6	170	180	6	4	486	24	4	24/4	14	14	20	

	IN	AR	FA	AD	EN	SC	MP	MI	OM	UD	MMI	AG	FI	QM	TC	MS	AWP	CA	CS	CSS	QM
f. Petroleum, Oil, and Lubricants (POL)	LT	SL	3	2	4	2	2	3	2	3	2	2	3	1	2	3	3/3	2	2	2	
	HRS(S)	HRS(P)	2	1	0	3	2	0	1	1	0	2	1	1	318	3	1/2	3	3	3	6
CPT	SL	2	1	3	2	3	2	2	2	2	2	2	3	1	2	3	3/3	2	2	2	
HRS(S)	HRS(P)	4	2	1	3	0/2C	2	2	1	0	1	1	1	283	0	0	2	5	5	8	

	IN	AR	FA	AD	EN	SC	MP	MI	OM	UD	MMI	AG	FI	QM	TC	MS	AWP	CA	CS	CSS	QM
9. Substance	LT	SL	3	2	4	3	2	4	2	3	2	2	3	2	2	2	3/3	2	2	2	
	HRS(S)	HRS(P)	1	1	0	4	2	0	1	1	1	2	1	356	4	2	1/5	3	3	3	3
CPT	SL	2	1	3	2	3	2	2	2	2	2	2	3	1	2	3	3/3	2	2	2	
HRS(S)	HRS(P)	4	2	1	3	0/2C	2	2	1	0	1	1	1	283	0	0	2	5	5	8	

	IN	AR	FA	AD	EN	SC	MP	MI	OM	UD	MMI	AG	FI	QM	TC	MS	AWP	CA	CS	CSS	QM
CPT	SL	2	1	4	2	3	2	3	2	2	2	2	2	2	2	2	3/3	2	2	2	
	HRS(S)	HRS(P)	2	2	0	2	2	2	1	1	0	1	1	340	3	0	0/1	5	4	4	4

SUBJECTS

BRANCH SCHOOLS

PRORONMENT

SUBJECTS	LT	SL	IN	AR	FA	AU	EN	SC	MP	MI	QM	OD	PM ¹	AG	F1	QM	TC	MS	AV ² p	CA	CS	CSS	QMI		
																								HRS(S)	HRS(P)
h. Field Services	3	2	4	3	2	3	2	3	2	3	2	3	2	2	3	2	2	2	2	2	3/3	3	3	2	4
	1	1	0	0	0	0	0	0	0	0	0	1	1	0	0	19	2	0	0	.5/0	3	3	4		
	1	0	0	0	0	0	0	0	0	0	0	1	1	0	0	19	2	0	0	.5/0	3	3	4		

21. Fundamentals of Combat:

a. Vehicle Recognition

SUBJECTS	LT	SL	IN	AR	FA	AU	EN	SC	MP	MI	QM	OD	PM ¹	AG	F1	QM	TC	MS	AV ² p	CA	CS	CSS	QMI	
																								HRS(S)
a. Vehicle Recognition	3	2	1	2	3	2	3	3	2	3	3	2	3	4	3	2	2	2	3	4/2	1	1	1	14
	4	4	4.2	2	1	0	0	0	4	4	3	.5	4	1	0	0	1	1	1	0/5	14	14	14	
	4	1	.5	0	0	0	0	0	2	0	2	0	1	0	0	0	1	1	1	0/5	14	14	14	

b. POW Processing

SUBJECTS	LT	SL	IN	AR	FA	AU	EN	SC	MP	MI	QM	OD	PM ¹	AG	F1	QM	TC	MS	AV ² p	CA	CS	CSS	QMI	
																								HRS(S)
b. POW Processing	3	3	3	3	3	3	3	3	2	1	2	1	2	3	3	3	3	3	3	4/3	2/1	2/2	2/3	MP/MI
	2	1	.2	1	1	1	1	0	8	3	.5	1	1	1	1	2	2	1	0/1	2/3	2/1	2/1	2/1	MP/MI
	2	0	.2	0	1	0	0	0	4	0	.5	.5	1	0	0	0	0	0	0/0	2/3	2/1	2/1	MP/MI	

c. Geneva Convention

SUBJECTS	LT	SL	IN	AR	FA	AU	EN	SC	MP	MI	QM	OD	PM ¹	AG	F1	QM	TC	MS	AV ² p	CA	CS	CSS	QMI	
																								HRS(S)
c. Geneva Convention	1	2	3	1	2	1	2	3	2	1	2	1	2	2	2	2	2	2	2	2/1	3	3	3	JA
	2	2	3	1	1	1	1	1	2	1	1	1	2	1	1	4	3.5	1	1/1	2/1	2	2	2	JA
	2	1	0	3	3	2	2	1	2	1	2	2	1	0	2	1	3	2	0/1	2/1	2	2	2	JA

d. Code of Conduct

SUBJECTS	LT	SL	IN	AR	FA	AU	EN	SC	MP	MI	QM	OD	PM ¹	AG	F1	QM	TC	MS	AV ² p	CA	CS	CSS	QMI	
																								HRS(S)
d. Code of Conduct	1	1	3	1	1	1	1	1	2	1	2	1	2	2	2	1	2	1	2/1	3	3	3	3	IMA
	1	2	.2	1	1	1	1	3	2	15	1	2	1	1	1	4	3.5	1	1/1	3	1	1	1	IMA
	1	1	.2	2	2	2	0	3	2	0	2	.5	1	2	2	1	3	1	0/1	3	1	1	1	IMA

SUBJECTS	CPT	SL	IN	AR	FA	AU	EN	SC	MP	MI	QM	OD	PM ¹	AG	F1	QM	TC	MS	AV ² p	CA	CS	CSS	QMI	
																								HRS(S)
	1	1	3	1	1	1	2	1	2	1	2	1	2	2	2	1	2	1	2/1	3	3	3	3	IMA
	1	3	.2	2	2	2	.5	1	2	15	1	2	1	1	1	4	3.5	1	1/1	3	1	1	1	IMA
	1	3	0	1	1	1	0	0	2	0	2	0	1	2	2	1	3	1	0/1	3	1	1	1	IMA

SUBJECTS

BRANCH SCHOOLS

PROFICIENT

e. Process Captured Documents and Material

	IN	AR	FA	AD	EN	SC	MP	MI	CM	UD	MM ¹	AG	F1	QM	TC	MS	AWP	CA	CS	CSS
LT	3	3	3	3	2	3	2	1	2	3	2	3	3	2	2	3	3/3	2/1	2/3	2/3
SL	1	1	.5	1	1	0	2	10	1	.5	1	1	1	3	1	.5	5/1	2/2	2/1	2/1
HRS(S)	1	1	.2	0	0	0	1	0	.5	1	1	0	0	0	0	0	.5/0			
HRS(P)	1	1																		
CPT	3	2	3	2	2	3	1	1	2	2	1	3	3	2	2	3	3/3	2/1	2/3	2/3
SL	1	2	5	3	1	0	2	4	.5	1	1	1	1	3	1	.5	1/5	1/2	2/3	2/3
HRS(S)	1	2	5	3	1	0	1	.1				0	0	0	0	0	1/0		1/1	1/1
HRS(P)	1	0	5	0	0	0	1													

f. Land Navigation

	IN	AR	FA	AD	EN	SC	MP	MI	CM	UD	MM ¹	AG	F1	QM	TC	MS	AWP	CA	CS	CSS
LT	1	1	1	1	1	2	2	1	1	1	2	1	2	1	1	2	2/2	1	1	1
SL	40	23	18	4	10	8	36	12	8	6	8	8	8	16	7	14	8/4	40	40	20
HRS(S)	35	23	17	8	6	8	12	12	8	3	8	7	7	10	9	14	8/0			
HRS(P)	1	1																		
CPT	1	1	1	1	1	2	1	1	1	1	1	1	2	1	1	2	3/2	1	1	1
SL	8	10	8	2	3	2	24	3	10	2	1	1	2	1	1	2	3/2	1	1	4
HRS(S)	4	6	0	4	0	2	12	3	12	2	1	8	8	14	4	3	9	8	8	4
HRS(P)	1	1	1	1	1	2	1	1	1	1	1	2	3	4	3	9	0/0			

g. Use of Organic Radio Equipment (Radio and Wire Communications)

	IN	AR	FA	AD	EN	SC	MP	MI	CM	UD	MM ¹	AG	F1	QM	TC	MS	AWP	CA	CS	CSS
LT	1	1	2	2	1	2	2	2	1	1	1	1	1	1	1	1	4/2	2	2	2
SL	12	27	9	12	8	0	24	15	4	6	10	8	8	10	8	4	0/5	40	40	40
HRS(S)	6	27	9	6	7	0	12	15	8	4	10	0	0	3	9	4	0/5			
HRS(P)	1	1	1	1	1	2	1	1	1	1	1	1	1	1	1	1	4/3	2/2	2/2	3/2
CPT	1	1	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1/2	1	1	1
SL	18	28	7.6	10	10	42	16	8	6	0	10	8	8	13	4	2	2/1	80	80	80
HRS(S)	11	28	7.6	10	10	42	12	8	5	0	10	0	0	3	3	1	2/0			
HRS(P)	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	4/3	2/2	2/2	3/2
HRS(S)	1	1	1.5	1	1	0	2	1	15	0	1	0	0	0	1	0	0/1	2/6	2/4	1/4
HRS(P)	1	1																		

h. Smoke Operations

	IN	AR	FA	AD	EN	SC	MP	MI	CM	UD	MM ¹	AG	F1	QM	TC	MS	AWP	CA	CS	CSS
LT	3	3	1	2	2	3	3	3	1	3	3	4	3	2	3	3	4/3	2/2	2/2	3/2
SL	1	1	1.5	1	1	0	2	1	15	0	1	0	1	3	1	1	0/1	2/6	2/4	1/4
HRS(S)	1	1	1	1	1	0	0	1	11	0	1	0	0	0	1	0	0/0			
HRS(P)	1	1																		
CPT	2	2	2	2	2	3	2	3	1	3	2	3	3	2	2	2	2/3	2/1	2/1	3/1
SL	2	2	1	1	2	0	2	1	30	.5	1	1	1	3	2.5	1	2/1	4/8	2/6	1/6
HRS(S)	2	2	1	1	2	0	0	1	20	.2		0	0	0	3	0	0/0			
HRS(P)	2	2																		
CPT	4	3	4	4	3	3	3	3	2	4	3	4	3	3	3	3	4/3	2	2	2
SL	0	.5	0	0	0	0	1	1	1	0	1	0	0	0	0	0	0/1	17	17	17
HRS(S)	0	0	0	0	0	0	0	0	.5	1	1	1	1	2	1.5	.5	0/1			
HRS(P)	0	0																		

i. Strategic Deployment

	IN	AR	FA	AD	EN	SC	MP	MI	CM	UD	MM ¹	AG	F1	QM	TC	MS	AWP	CA	CS	CSS
LT	4	3	4	4	3	3	3	3	2	4	3	4	3	3	3	3	4/3	2	2	2
SL	0	.5	0	0	0	0	3	3	2	0	1	0	0	0	0	0	0/0	17	17	17
HRS(S)	0	0	0	0	0	0	0	0	.5	1	1	1	1	2	1.5	.5	0/1			
HRS(P)	0	0																		
CPT	3	2	3	3	3	3	3	1	2	2	2	3	1	2	3	3	3	1	1	1
SL	1	1	.5	3	1	2	1	1	1	2	2	1	16	15	1	.5	1	60	60	60
HRS(S)	1	1	0	2	1	2	2	2	1	2	2	1	4	0	0	0	0			
HRS(P)	0	0	2	0	0	0	0	0	.5	1	1	0	0	0	0	0	0			

SUBJECTS

BRANCH SCHOOLS

PROPONENT

SUBJECTS	LT	SL	BRANCH SCHOOLS										PROPONENT			CATRADA							
			IN	AR	FA	AD	EN	SC	MP	MI	QM	OD	MW†	AG	FI		QM	TC	MS	AWJp	CA	CS	CSS
j. Training Management	1	2	2	2	1	2	2	2	1	2	2	2	1	2	1	2	2	2	2	2	2	2	CGSC
	20	10	4.2	12	10	25	24	8	30	2	40	4	4	16	13	6	.5/4	16	16	16	16	CGSC	
	16	6	4.2	12	4	25	24	4	31	3	40	4	4	12	24	6	.5/0	16	16	16	16	CGSC	
k. How to Train	1	1	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	2/1	1	1	1	CGSC	
	22	15	14	14	8	256	25	8	30	24	10	16	8	12	12.5	8	16/16	30	30	30	30	CGSC	
	22	15	14	14	5	256	25	4	34	9	10	3	0	3	24	8	16/16	30	30	30	30	CGSC	
k. How to Train	1	2	2	2	1	d	2	2	1	1	1	1	1	1	2	2	2	3/3	2	2	2	CATRADA	
	40	10	1	2	10		12	8	5	28	5	1	16	18	7	2	5/4	16	16	16	16	CATRADA	
	40	6	1	2	3		4	0	3	4	5	0	0	3	2	2	5/0	16	16	16	16	CATRADA	
k. How to Train	1	1	2	1	1	d	4	1	1	1	1	1	1	1	1	1	2/1	1	1	1	1	CATRADA	
	40	10	7	2	8		4	8	5	2	10	16	8	11	7.5	2	10/1	30	30	30	30	CATRADA	
	40	10	7	2	0		4	0	4	5	10	0	0	0	4	0	10/1	30	30	30	30	CATRADA	

NOTES: a. Concept deleted per draft FM 100-5, dated Jan 81.

b. Includes integrated battlefield.

c. #/# is 25 Track/72 Track, CPT only.

d. How to Train included in Training Management.

e. Cav/Ar

f. Consolidation at para 5a, 6a, 8a.

g. Included in 9d and e.

h. Consolidated entry for paragraph or subparagraph below.

i. Missile and Munition Center, Speciality Codes 73 and 75.

j. #/# is Warrant Officer Candidate Military Development Course/Initial Entry Rotary Wing Course, LT data.

k. See para 6f, breakout and link-up.

l. See para 8b, cavalry reconnaissance.

m. Treated as an obstacle under engineer subjects.

n. Not applicable to CA LTs.

o. Missile and Munition Center does not teach an Officer Advanced Course yet, HRS(P) not reported.

p. #/# is Aviation Warrant Officer Advanced Course/Warrant Officer Senior Course, CPT data.

q. More than half AMEDD officers accessions are direct commissions. All subjects rated SL-4, HRS(S)-0.

COMBINED ARMS SUFFICIENCY STUDY

ANNEX C

OVERALL SUFFICIENCY LEVELS OF SUBJECTS

In the list below subjects are annotated to show the percentage of schools and proponents that rated a subject at the 1 (fully proficient) or 2 (working knowledge) level. Percentages for lieutenants and captains are shown.

Key: CAPITAL LETTERS - Percentage 50% or more for lieutenants.
Underlined - Percentage 50% or more for captains.
* - Percentage 25% or less for lieutenants.
** - Percentage 25% or less for lieutenants and captains.

Appendixes:

- 1 - Subjects rated low for Lieutenants and high for Captains.
- 2 - Subjects rated low for Lieutenants and Captains.

SUBJECTSPercent at SL 1 or 2

	<u>LT</u>	<u>CPT</u>
1. Doctrinal Foundation:		
a. <u>MISSION AND ROLE OF THE US ARMY</u>	89	89
b. <u>PRINCIPLES OF WAR</u>	74	95
c. US Army Operational Concepts (AirLand Battle)		
*(1) Enemy Air Defenses	16	42
*(2) Suppression of Enemy Air Defenses	21	37
(3) <u>Close Air Support</u>	32	68
*(4) Airspace Management	16	32
*(5) Protection of Sensors and Deep Attack Systems	0	26
*(6) <u>Extended Battlefield</u>	21	58
d. <u>UNDERLYING FUNDAMENTALS OF MODERN COMBAT</u>	68	89
2. Threat Background:		
a. <u>MISSION AND ROLE OF THE ARMED FORCES</u>	53	74
b. <u>ORGANIZATIONS AND EQUIPMENT</u>	58	74
c. <u>OFFENSIVE OPERATIONS</u>	53	84
d. <u>Defensive Operations</u>	47	79
e. <u>Combat Support (including NBC & Radio Electronic Combat (REC))</u>	42	74
f. <u>Special Operations</u>	32	68
3. Organizational Basics:		
a. <u>LEADERSHIP</u>	100	100
b. <u>ORGANIZATION AND PREPARATION FOR COMBAT</u>	86	95

	<u>LT</u>	<u>CPT</u>
c. Command and Control and Communications (C ³)		
(1) <u>STAFF PROCEDURES IN COMBAT</u>	63	100
(2) <u>PLANS, ORDERS, GRAPHICS, RECORDS, AND REPORTS</u>	90	100
(3) <u>DECISION MAKING</u>	84	100
(4) <u>COMMAND AND CONTROL COMMUNICATIONS (C²)</u>	68	95
4. Tactical Basics:		
a. <u>BATTLEFIELD MOVEMENT (MARCHES, MANEUVER)</u>	82	95
b. <u>Tactical Intelligence</u>	37	69
c. <u>OPERATIONAL SECURITY</u>	89	95
d. <u>Passage of Lines</u>	45	68
e. <u>River Crossing</u>	40	73
f. <u>OPERATIONS DURING PERIODS OF LIMITED VISIBILITY/NIGHT OPERATIONS</u>	68	77
g. <u>PATROLLING</u>	68	68
5. Offensive Operations:		
a. <u>CONCEPTS AND FUNDAMENTALS</u>	68	86
b. <u>Movement to Contact</u>	45	64
c. <u>Meeting Engagement</u>	41	67
d. <u>HASTY ATTACK</u>	50	68
e. <u>DELIBERATE ATTACK</u>	50	64
f. <u>Exploitation</u>	30	55
g. <u>Pursuit</u>	30	55

	<u>LT</u>	<u>CPT</u>
h. <u>Relief of Encircled Forces</u>	30	50
i. Reconnaissance in Force	32	47
*j. Deception Operations (Feints, Ruses, Raids)	25	45
6. Defensive Operations:		
a. Concepts and Fundamentals		
(1) <u>COVERING FORCE AREA</u>	59	82
(2) <u>MAIN BATTLE AREA</u>	59	82
(3) <u>REAR AREA</u>	82	95
b. <u>DEFENSE IN SECTOR</u>	50	68
c. Defense from Battle Positions		
(1) <u>LINEAR</u>	50	64
(2) <u>IN-DEPTH</u>	50	64
(3) <u>PERIMETER</u>	68	73
d. <u>STRONG POINTS</u>	50	59
e. <u>COUNTERATTACK</u>	50	64
f. <u>Breakout/Linkup</u>	36	64
g. <u>C³ OPTIONS ONCE THE BATTLE <u>BEGINS</u></u>	53	68
7. Retrograde Operations:		
a. <u>Disengagement</u>	45	63
b. <u>Delay</u>	32	64
c. <u>Withdrawal</u>	27	55
*d. Retirement	14	29

	<u>LT</u>	<u>CPT</u>
8. Cavalry Operations (Air and Ground):		
a. <u>Concepts and Fundamentals</u>	26	53
*b. <u>Reconnaissance</u>	21	53
*c. Security	16	47
*d. Economy of Force	16	47
*e. Operations of Divisional Cavalry (Division 86)	5	37
*f. Covering Force	21	47
9. Special Military Operations:		
a. <u>MILITARY OPERATIONS IN URBAN TERRAIN</u>	57	79
b. Rear Area Combat Operations (RACO)		
(1) <u>ORGANIZATION FOR COMBAT</u>	50	77
(2) <u>PERIMETER DEFENSE</u>	68	86
(3) <u>ACTIVE/PASSIVE SECURITY</u>	68	86
(4) <u>WEAPONS EMPLOYMENT</u>	68	82
(5) <u>PHYSICAL LAYOUT OF REAR AREA</u>	55	82
c. <u>Reconstitution of Ineffective Units</u>	32	63
**d. Counterinsurgency Operations	16	16
*e. Counterterror Operations	23	45
**f. Special Forces Operations	5	21
**g. Foreign Internal Defense	0	21
*h. Unconventional Warfare	0	28
*i. Psychological Operations	0	26

	<u>LT</u>	<u>CPT</u>
*j. Civil Affairs	11	32
*k. Amphibious	11	26
*l. Airborne	5	32
m. <u>Airmobile</u>	27	55
**n. Ranger	5	11
10. Considerations for Special Environments:		
*a. Desert	14	45
*b. Jungle	16	37
*c. Mountain	16	37
*d. Northern Regions	16	37
11. Indirect Fire Support:		
a. <u>REQUEST AND ADJUST INDIRECT FIRE</u>	84	90
b. Artillery Effects (Shell fuze Combinations)	32	42
c. <u>Organization, Command and Control</u>	32	58
*d. <u>Priorities of Support on the Extended Battlefield</u>	16	58
*e. Land Space Requirements in the MBA and CFA	5	37
12. Air Defense:		
*a. <u>Short Range Air Defense Systems (SHORAD)</u>	16	63
b. <u>Man Portable Air Defense Systems</u>	26	68
*c. Non-Divisional Air Defense Systems	11	37
d. <u>UNIT ACTIVE AIR DEFENSE MEASURES</u>	58	79
e. <u>UNIT PASSIVE AIR DEFENSE MEASURES</u>	68	89

	<u>LT</u>	<u>CPT</u>
f. <u>Visual Aircraft Recognition</u>	42	63
g. <u>Priorities of Support on the Extended Battlefield</u>	32	58
*h. Land Space Requirements in the MBA and CFA	21	42
13. Army Aviation		
*a. Combat Aviation	16	42
*b. Combat Support Aviation	16	42
*c. <u>Combat Service Support Aviation</u>	11	58
14. Tactical Nuclear Operations:		
a. <u>NUCLEAR WEAPONS EFFECTS</u>	58	95
b. The Nuclear Battle		
*(1) <u>Planning</u>	16	58
*(2) <u>Tactics</u>	11	58
*c. Nuclear Release and Employment	16	42
*d. Nuclear Logistics	5	26
e. <u>Reconstitution</u>	32	53
f. <u>C³ on the Nuclear Battlefield</u>	37	79
15. Engineer Operations:		
a. Mobility	26	37
b. Countermobility	26	37
c. Survivability	26	37
*d. General Engineering	16	26
**e. Atomic Demolition Munition (ADM) Operations	11	16

	<u>LT</u>	<u>CPT</u>
16. NBC Warfare:		
a. <u>U.S. POLICY</u>	53	74
b. <u>THREAT POLICY</u>	53	79
c. <u>SURVIVABILITY</u>	84	95
d. <u>Offensive Use</u>	26	53
e. <u>Defensive Use</u>	47	74
f. <u>Reconstitution</u>	32	58
g. <u>NBC Logistics</u>	42	55
17. Electronic Warfare:		
*a. Electronic Warfare Support Measures (ESM) (Intercepting, Identifying, Analyzing, Locating)	16	37
b. <u>Electronic Countermeasures (ECM)</u> (Jamming, Electronic Deception)	26	53
c. <u>SIGNAL SECURITY</u>	50	86
d. <u>Integrated Operations with Tactics</u>	26	63
18. Intelligence:		
*a. Electromagnetic Intelligence	11	26
**b. Imagery Intelligence	5	16
*c. Human Intelligence	21	42
*d. Counterintelligence	16	26
*e. Intelligence Preparation of the Battlefield	21	37
*f. Tactical All Source Intelligence Production and Management	11	32
*19. NATO Interoperability	5	47

	<u>LT</u>	<u>CPT</u>
20. Combat Service Support:		
a. Transportation		
(1) Load Planning		
(a) <u>Air</u>	42	63
(b) <u>Land</u>	47	58
(c) <u>Sea</u>	32	47
(2) <u>CONVOY OPERATIONS</u>	74	84
(3) <u>MOVEMENT CONTROL</u>	58	74
(4) Aviation Logistics	26	42
b. Ammunition		
(1) <u>Support Structure and Requisitioning</u>	42	68
(2) <u>SAFETY, STORAGE, AND TRANSPORTATION</u>	68	79
(3) <u>Supply Rates and DAO Functions</u>	26	53
(4) <u>Munitions Identification</u>	47	58
(5) <u>Emergency Destruction Procedures</u>	42	58
*(6) EOD Operations	16	32
c. Maintenance		
(1) <u>RECOVERY AND EVACUATION</u>	63	79
(2) <u>COMMAND AND STAFF MANAGEMENT OF PREVENTIVE MAINTENANCE</u>	79	90
(3) <u>REPAIR PARTS SUPPLY (PLL)</u>	74	90
(4) <u>PREVENTIVE MAINTENANCE CHECKS AND SERVICES (PMCS)</u>	95	100

	<u>LT</u>	<u>CPT</u>
(5) <u>THE ARMY MAINTENANCE MANAGEMENT SYSTEM (TAMMS)</u>	89	100
d. Manpower		
(1) <u>ACCOUNTABILITY</u>	58	90
(2) <u>Estimates</u>	26	79
(3) <u>Casualty Reporting/ Notification</u>	42	68
(4) <u>REPLACEMENTS</u>	53	68
(5) Health Care		
(a) <u>TREATMENT OF CASUALTIES (FIRST AID)</u>	100	100
(b) <u>MEDICAL EVACUATION</u>	63	84
e. <u>SUPPLY</u>	100	100
f. <u>PETROLEUM, OIL, AND LUBRICANTS (POL)</u>	63	74
g. <u>SUBSISTENCE</u>	63	79
h. <u>FIELD SERVICES</u>	53	68
21. Fundamentals of Combat:		
a. <u>VEHICLE RECOGNITION</u>	53	68
b. <u>POW Processing</u>	41	64
c. <u>GENEVA CONVENTION</u>	74	100
d. <u>CODE OF CONDUCT</u>	79	90
e. <u>PROCESS CAPTURED DOCUMENTS AND MATERIAL</u>	50	64
f. <u>LAND NAVIGATION</u>	100	100
g. <u>USE OF ORGANIC RADIO EQUIPMENT (RADIO AND WIRE COMMUNICATIONS)</u>	100	100

	<u>LT</u>	<u>CPT</u>
h. <u>Smoke Operations</u>	45	73
*i. <u>Strategic Deployment</u>	21	53
j. <u>TRAINING MANAGEMENT</u>	100	100
k. <u>HOW TO TRAIN</u>	100	100

COMBINED ARMS SUFFICIENCY STUDY

ANNEX C

OVERALL SUFFICIENCY LEVEL OF SUBJECTS

APPENDIX 1

SUBJECTS RATED LOW FOR LIEUTENANTS AND HIGH FOR CAPTAINS

1. Doctrinal Foundation:
 - c. U.S. Operational Concepts:
 - (3) Close Air Support
 - (6) Extended Battlefield
4. Tactical Basics:
 - b. Tactical Intelligence
8. Cavalry Operations (Air and Ground):
 - a. Concepts and Fundamentals
 - b. Reconnaissance
9. Special Military Operations:
 - m. Airmobile
11. Indirect Fire Support:
 - d. Priorities of Support on the Extended Battlefield
12. Air Defense:
 - a. Short Range Air Defense Systems
 - b. Man Portable Air Defense Systems
13. Army Aviation:
 - c. Combat Service Support, Aviation
14. Tactical Nuclear Operations:
 - b. The Nuclear Battle
 - (1) Planning
 - (2) Tactics
 - f. C³ on the Nuclear Battlefield

17. Electronic Warfare:
 - b. Electronic Countermeasures
 - d. Integrated Operations with Tactics.
19. NATO Interoperability
20. Combat Service Support:
 - d. Manpower
 - (2) Estimates
21. Fundamentals of Combat:
 - i. Strategic Deployment

COMBINED ARMS SUFFICIENCY STUDY

ANNEX C

OVERALL SUFFICIENCY LEVEL OF SUBJECTS

APPENDIX 2

SUBJECTS RATED LOW FOR LIEUTENANTS AND CAPTAINS

1. Doctrinal Foundation:
 - c. U.S. Army Operational Concepts:
 - (2) Suppression of Enemy Air Defense
 - (4) Air Space Management
 - (5) Protection of Sensors and Deep Attack Systems
7. Retrograde Operations:
 - d. Retirement
8. Cavalry Operations (Air and Ground):
 - e. Operations of Divisional Cavalry (Division 86)
9. Special Military Operations:
 - d. Counterinsurgency Operations
 - f. Special Forces Operations
 - g. Foreign Internal Defense
 - h. Unconventional Warfare
 - i. Psychological Operations
 - j. Civil Affairs
 - k. Amphibious
 - l. Airborne
 - n. Ranger
10. Considerations for Special Environments
11. Indirect Fire Support:
 - e. Land Space Requirements in the MBA and CFA
12. Air Defense:
 - c. Non-Divisional Air Defense Systems
14. Tactical Nuclear Operations:
 - d. Nuclear Logistics

15. Engineer Operations
17. Electronic Warfare:
 - a. Electronic Warfare Support
18. Intelligence
20. Combat Service Support:
 - b. Ammunition
 - (6) EOD Operations

COMBINED ARMS SUFFICIENCY STUDY

ANNEX D

GROUPING OF SUBJECTS BY CATEGORY

1. In our analysis it was determined that the responses to the study could be grouped into the categories of Sufficient, Insufficient, and Not Determined. This annex provides a consolidated listing of subjects by category.

2. Sufficient: High level of agreement on appropriate sufficiency level. Agreement on hours associated with sufficiency levels appears meaningful. Variation of hours appears to be, in general, appropriate to the branch's level of participation in combined arms operations. Service schools should compare their responses against the other schools and against their own Programs of Instruction. These are several subjects for which the proponent's response is quite different from that of most of the schools. These should be reviewed by proponents. A listing of subjects in this category is at appendix 1.

3. Insufficient: In this category are those subjects which are, in most cases, assigned sufficiency levels inadequate or inappropriate to the importance of the subject to all members of the Combined Arms Team. Proponents are tasked to review the current state of their guidance to the field and schools are tasked to re-examine the adequacy of their POIs in these areas. A list of these subjects is at appendix 2.

4. Not Determined: In general, subjects in this category show agreement on sufficiency level ratings, but a wide variance on hours associated with sufficiency levels. This variance appears to be caused by a combination of factors which include subject overlap, lack of precise definition, and failure to discriminate between the combined arms and purely technical aspects of the subject. Proponents will be asked to review each of these subjects and provide more precise definition. A list of these subjects is at appendix 3.

Appendixes:

- 1 - Sufficient
- 2 - Insufficient
- 3 - Not Determined

COMBINED ARMS SUFFICIENCY STUDY

ANNEX D

GROUPING OF SUBJECTS BY CATEGORY

APPENDIX 1

- SUFFICIENT

<u>SUBJECT</u>	<u>PROPONENT</u>
1. Doctrinal Foundation:	
a. Mission and role of the US Army	CGSC
b. Principles of War	CGSC
c. US Army Operational Concepts (AirLand Battle)	
Close Air Support	CGSC
d. Underlying Fundamentals of Modern Combat	CGSC
4. Tactical Basics:	
a. Battlefield Movement (Marches, Maneuver)	IN/AR
c. Operational Security	CGSC
d. Passage of Lines	IN/AR
* e. River Crossing	IN/AR/EN
5. Offensive Operations:	IN/AR
7. Retrograde Operations:	IN/AR
8. Cavalry Operations (Air and Ground):	AR
9. Special Military Operations:	
b. Rear Area Combat Operations (RACO)	CGSC/MP

- | | |
|---|--------|
| d. Counterinsurgency Operations | IN |
| e. Counterterror Operations | MP/IMA |
| f. Special Forces Operations | IMA |
| g. Foreign Internal Defense | IMA |
| h. Unconventional Warfare | IMA |
| i. Psychological Operations | IMA |
| j. Civil Affairs | IMA |
| k. Amphibious | IN |
| l. Airborne | IN |
| m. Airmobile | IN/AV |
| n. Ranger | IN |
| 10. Considerations for Special Environments: | |
| a. Desert | IN/AR |
| b. Jungle | IN |
| c. Mountain | IN |
| d. Northern Regions | IN |
| 11. Indirect Fire Support: | |
| b. Artillery Effects (Shell fuze
Combinations) | FA |
| c. Organization, Command and Control | FA |
| d. Priorities of Support on the
Extended Battlefield | FA |
| e. Land Space Requirements in the MBA
and CFA | FA |
| 16. NBC Warfare: | CM |
| *18. Intelligence: | MI |

- *19. NATO Interoperability: CACDA
- 20. Combat Service Support:
 - a. Transportation
 - (1) Load Planning TC
 - (a) Air TC
 - (b) Land
 - (c) Sea
 - (4) Aviation Logistics TC
 - b. Ammunition MM
- 21. Fundamentals of Combat:
 - b. POW Processing MP/MI
 - c. Geneva convention FA
 - d. Code of Conduct IMA
 - e. Process Captured Documents and Material MP/MI
 - * f. Land Navigation IN
 - * g. Use of Organic Radio Equipment (Radio and Wire Communications) SC
 - h. Smoke Operations FA/CM
 - * i. Strategic Deployment CGSC

* Proponents should review input.

COMBINED ARMS SUFFICIENCY STUDY

ANNEX D

GROUPING OF SUBJECTS BY CATEGORY

APPENDIX 2

INSUFFICIENT

<u>SUBJECT</u>	<u>PROPONENT</u>
2. Threat Background:	CACDA
a. Mission and Role of the Armed Forces	
b. Organizations and Equipment	
c. Offensive Operations	
d. Defensive Operations	
e. Combat Support (including NBC & Radio Electronic Combat (REC))	
f. Special Operations	
4. Tactical Basics:	
b. Tactical Intelligence	MI
g. Patrolling	IN
9. Special Military Operations:	
a. Military Operations in Urban Terrain	IN
13. Army Aviation	AV
15. Engineer Operations:	EN
17. Electronic Warfare:	MI
21. Fundamentals of Combat:	
j. Training Management	CGSC

COMBINED ARMS SUFFICIENCY STUDY

ANNEX D

GROUPING OF SUBJECTS BY CATEGORY

APPENDIX 3

NOT DETERMINED

<u>SUBJECT</u>	<u>PROPONENT</u>
3. Organizational Basics:	
a. Leadership	CGSC
b. Organization and Preparation for Combat	IN/AR
c. Command and Control and Communica- tions (C ³):	CGSC
(1) Staff Procedures in Combat	
(2) Plans, Orders, Graphics, Records, and Reports	
(3) Decision Making	
(4) Command and Control Communica- tions (C ²)	
4. Tactical Basics:	
f. Operations During Periods of Limited Visibility/Night Operations	IN/AR
6. Defensive Operations:	IN/AR
9. Special Military Operations:	
c. Reconstitution of Ineffective Units	CGSC
11. Indirect Fire Support:	
a. Request and Adjust Indirect Fire	FA

12. Air Defense:	AD
14. Tactical Nuclear Operations:	FA
20. Combat Service Support:	
a. Transportation	
(2) Convoy Operations	TC
(3) Movement Control	TC
c. Maintenance	OD/QM
d. Manpower	SSC
e. Supply	QM
f. Petroleum, Oil, and Lubricants (POL)	QM
g. Subsistence	QM
h. Field Services	QM
21. Fundamentals of Combat:	
a. Vehicle Recognition	CATRADA
k. How to Train	CATRADA

COMBINED ARMS SUFFICIENCY STUDY

ANNEX E

THE ROLE OF PROPONENTS IN COMBINED ARMS SUFFICIENCY

1. It was established at the beginning of the Combined Arms Sufficiency Study that the subject proponents should have a major role in determining sufficiency requirements. Each of the subjects on the list has a proponent commandant who was identified from current established responsibilities for doctrine development. These proponents were asked to recommend sufficiency levels and hours of instruction for each of their subjects. Their recommendations were by grade (pre-commissioning, lieutenants, and captains), and further subdivided into recommendations for Combat, Combat Support, and Combat Service Support officers.

2. In the categorization of subjects discussed in paragraph 6 of the main report (Sufficient, Insufficient, Not Determined) we considered the input from proponents, but that input was not the only determining factor in the selection of subject placement. There are subjects in each category where joint proponents disagree with each other about sufficiency of coverage. In some cases, proponents' recommendations are well outside the norm of most schools' responses. In these cases judgments on sufficiency often discounted the proponent's input.

3. Traditionally, proponents have had very little input to decisions on the contents of programs of instruction at service schools. In the officer/job task analysis process, however, proponents are being tasked to develop training support packages for the common and shared tasks to be included in Military Qualification Standards Manuals and in officer training programs. When proponent input was requested as part of this study, we realized that we were asking for the proponent to state an opinion about content of POI, an opinion of a type not heretofore requested. After a review of the consolidated data we received in return, it appears that the proponent can now play an important role in resolving some of the areas of apparent disagreement between schools in the treatment of specific subjects.

4. For example, a look at three subjects in the Not Determined category serves to illustrate what appears to be confusion in the field over what should be taught, and how much. They also illustrate areas where the proponents can serve the common good by reviewing the doctrine and providing advice and support to teaching schools.

a. Leadership. Although all respondents rated this subject at a sufficiency level of 1 or 2, the hours reported as necessary to reach that level of sufficiency varied from 7 to 80. The proponent (CGSC) rated sufficiency at level 1 and estimated 30 hours of instruction required. In this wide range of responses there is no clear correlation between sufficiency level/hours and grouping of branches by CA, CS and CSS. Upon examination, it

seems likely that the variation results from differences between respondents concerning just what this subject encompasses, and how much of what they now teach (or think they should be teaching) can be considered "leadership". In this case the proponent should provide some standardized guidelines for the conduct or leadership training. This is, in fact, a project being worked by the CGSC, the designated leadership proponent.

b. Defensive Operations. In most cases, this subject had sufficiency level ratings of 1 and 2, but it is difficult to discern any overall pattern to the responses. At the time of the study, doctrine and terminology were changing and terms such as "defense in sector" did not mean the same thing to all respondents. Until we have a clear definition of the subject, coordinated between the joint proponents and the proponent of FM 100-5, this area will remain murky. Clearly, proponents can assist here by arriving at common terms, mutually acceptable doctrine, and coordinated training responsibility.

c. Combat Service Support. Two sub-areas, Maintenance and Supply, are good examples of subjects reflecting general agreement on sufficiency levels, but wide variation in hours required to reach proficiency. We suspect that the cause of variation here is failure to differentiate between combined arms training requirements and garrison training requirements. We cannot, for example, determine from the data whether the training reported under TAMMS educates the officer on how the system will function to sustain the force in combat, or whether it focuses on how to survive maintenance inspections in a garrison environment. Both are of concern to the commandant as he makes his decision about POI development, but only the former was the concern of this study. Here the proponent can help by specifying more precisely what officers need to know, as it relates to supporting combat activities.

5. It seems very likely that a number of subject areas (particularly those in the Insufficient and Not Determined categories) could be improved by the proponents comparing their input against that of the schools, reviewing the current state of their support to the field, and by providing advice and assistance to the teaching schools.

6. Proponents can host updates and seminars for the personnel tasked to teach their subjects at the service schools. This study would provide an instrument to refine the focus of those sessions by allowing the proponent to see how his subject areas are viewed through the eyes of other school commandants.

7. Some subjects appear to mean different things to different schools. This lack of agreement may have been a contributing cause of variation between the schools' responses. One major contribution proponents can make to mutual understanding is to develop and coordinate concise definitions of their subjects.

8. Following are three proposals under consideration for inclusion in a Combined Arms Sufficiency Action Plan:

a. Task joint proponents to coordinate their recommended sufficiency levels to resolve differences.

b. Task proponents for subjects in the Not Determined category to develop and coordinate definitions of their subjects.

c. Following refinement of the subject list, CAC to resurvey proponents to obtain a revised set of recommendations on sufficiency levels and hours.

COMBINED ARMS SUFFICIENCY STUDY

ANNEX F

METHODOLOGY

1. **Subject List.** An initial list was developed through a review of FM 100-5 and various lists that have been generated through Officer Job/Task Analysis. Subject proponents were established by the use of TRADOC Circular 350-81-2, Officer Job/Task Analysis and Training Development. This initial list was staffed through CATRADA, CACDA, And CGSC. A revised list was staffed to all participants in the study (See Annex A for a list of study participants). The list was revised again and staffed within the Combined Arms Center. The final list is at Annex G. The final list was the basis for the questionnaires.

2. Two questionnaires were developed, one for branches and one for proponents.

a. A proponency evaluation form is at Appendix 1. Proponents were asked to rate their subjects for sufficiency level and to provide the number of hours they associated with that level of sufficiency. Sufficiency level was rated for lieutenants prior to the Officer Basic Course, lieutenants at the end of the Officer Basic Course, and captains at the end of the Officer Advanced Course. Lieutenants and captains were further subdivided by combat arms, combat support arms, and combat service support arms.

b. A branch evaluation form is at Appendix 2. Each school was asked to establish sufficiency levels for the officers of their branch; lieutenants prior to attending the Officer Basic Course (pre-commissioning), lieutenants at the end of the basic Course, and captains at the end of the Advanced Course. In addition to establishing sufficiency levels and hours of instruction associated with that sufficiency level, each school was asked to state the number of hours they currently teach on each subject. There were four exceptions to this general direction. The Academy of Health Sciences addressed all Army Medical Department Officers instead of one branch. The Missile and Munitions Center addressed their future courses for Specialty Codes 73 (Missile Material Management) and 75 (Munitions Material Management) while the Ordnance Center addressed training for other Ordnance Corps Officers. The Aviation Center was asked to evaluate their courses for warrant officers. The Judge Advocate General's School declined participation as a respondent on the branch evaluation part of the study.

Appendixes:

- 1-Proponency Evaluation Form
- 2-Branch Evaluation Form

COMBINED ARMS SUFFICIENCY STUDY

ANNEX F

METHODOLOGY

APPENDIX 1

PROPENSITY EVALUATION FORM

SUFFICIENCY LEVEL INDICATORS*

In order to perform his duties effectively:

1. Officer must be fully proficient in subject.
2. Officer must have a working knowledge of subject.
3. Officer must be familiar with subject.
4. No training required.

Evaluate each subject based on the following questions:

PRE-COMMISSIONING

"In Column A 1, using Sufficiency Level Indicators 1 through 4, indicate the level of knowledge that all lieutenants should attain prior to attending their branch related Officer Basic Course. In Column A 2, indicate the number of hours of instruction you equate to that level of knowledge."

COMBAT ARMS

"In Column B 1, indicate the level of knowledge that CA lieutenants should attain at completion of the Officer Basic Course. In Column B 2, indicate the number of hours of instruction you equate to that level of knowledge for lieutenants. In Column B 3, indicate the level of knowledge that CA captains should attain at completion of the Officer Advanced Course. In Column B 4, the number of hours of instruction for captains."

COMBAT SUPPORT ARMS

"In Column C 1, indicate the level of knowledge that CS lieutenants should attain at completion of the Officer Basic Course. In Column C 2, indicate the number of hours of instruction you equate to that level of knowledge for lieutenants. In Column C 3, indicate the level of knowledge that CS captains should attain at completion of the Officer Advanced Course. In Column C 4, the number of hours of instruction for captains."

COMBAT SERVICE SUPPORT ARMS

"In Column D 1, indicate the level of knowledge that CSS lieutenants should attain at completion of the Officer Basic Course. In Column D 2, indicate the number of hours of instruction you equate to that level of knowledge for lieutenants. In Column D 3, indicate the level of knowledge that CSS captains should attain at completion of the Officer Advanced Course. In Column D 4, the number of hours of instruction for captains."

* Indicators 1 through 4 will be used to answer all questions pertaining to levels of knowledge (Columns A1, B1, B3, C1, C3, D1, D3).

COMBINED ARMS SUFFICIENCY STUDY

PROFICIENCY EVALUATION FORM

	A		B		C		D		
1	2	1	2	3	4	1	2	3	4

1. DOCTRINAL FOUNDATION:

A. MISSION AND ROLE OF THE US ARMY

B. PRINCIPLES OF WAR

C. US ARMY OPERATIONAL CONCEPTS (AIRLAND BATTLE)

(1) ENEMY AIR DEFENSES

(2) SUPPRESSION OF ENEMY AIR DEFENSES

(3) CLOSE AIR SUPPORT

(4) AIRSPACE MANAGEMENT

AD, AHS, AR, AVN, CML, EN, FA, JMA, IN, INT, JAG, H&M, MP, ORD, OM, SIG, SSC, TRANS

COMBINED ARMS SUFFICIENCY STUDY

ANNEX F

METHODOLOGY

APPENDIX 2

BRANCH EVALUATION FORM

SUFFICIENCY LEVEL INDICATORS*

In order to perform his duties effectively:

1. Officer must be fully proficient in subject.
2. Officer must have a working knowledge of subject.
3. Officer must be familiar with subject.
4. No training required.

Evaluate each subject based on the following questions:

PRE-COMMISSIONING

"In Column A 1, using Sufficiency Level Indicators 1 through 4, indicate the level of knowledge that your lieutenants should attain prior to attending the Officer Basic Course. In Column A 2, indicate the number of hours of instruction you equate to that level of knowledge."

OFFICER BASIC COURSE

"In Column B 1, indicate the level of knowledge that your lieutenants should attain at completion of the Officer Basic Course. In Column B 2, indicate the number of hours of instruction you equate to that level of knowledge. In Column B 3, indicate the number of hours your institution presently instructs in this subject."

OFFICER ADVANCED COURSE

"In Column C 1, indicate the level of knowledge that your captains should attain at completion of the Officer Advanced Course. In Column C 2, indicate the number of hours of instruction you equate to that level of knowledge. In Column C 3, indicate the number of hours your institution presently instructs in this subject."

* Indicators 1 through 4 will be used to answer all questions pertaining to levels of knowledge (Columns A1, B1, C1).

COMBINED ARMS SUFFICIENCY STUDY

BRANCH EVALUATION FORM

A		B			C		
1	2	1	2	3	1	2	3

1. DOCTRINAL FOUNDATION:

A. MISSION AND ROLE OF THE US ARMY							
B. PRINCIPLES OF WAR							
C. US ARMY OPERATIONAL CONCEPTS (AIRLAND BATTLE)							
(1) ENEMY AIR DEFENSES							
(2) SUPPRESSION OF ENEMY AIR DEFENSES							
(3) CLOSE AIR SUPPORT							
(4) AIRSPACE MANAGEMENT							
(5) PROTECTION OF SENSORS AND DEEP ATTACK SYSTEMS							
(6) EXTENDED BATTLEFIELD							

COMBINED ARMS SUFFICIENCY STUDY

ANNEX G

CONSOLIDATED SUBJECT LIST

This annex contains a one-page reproduction of the subject list used as the basis for the conduct of the study. The method of constructing this list is described at Annex F, Methodology. Detailed discussion of the subjects is at Annex D.

COMBINED ARMS SUFFICIENCY STUDY

ANNEX H

PRECOMMISSIONING DATA

1. Schools and proponents were requested to provide their views on sufficiency levels appropriate for officers prior to attending the basic course. This information was collected primarily to determine if the approach used by this study yielded information at variance with the ongoing Officer Job/Task Analysis (OJTA) effort.

2. Review of the data shows a high level of agreement between Military Qualification Standards I tasks and those items receiving high sufficiency level ratings. The items rated high on the sufficiency study were:

Mission and Role of the US Army

Principles of War

Leadership

Decision Making

Patrolling

Request and Adjust Indirect Fire

First Aid

Code of Conduct

Land Navigation

COMBINED ARMS SUFFICIENCY STUDY

PRE-COMMISSIONING

SUBJECTS

BRANCH SCHEDULES

PROFONENT

	IN	AR	FA	AD	EN	SC	MP	MI	QM	OD	PMI	AG	F1	QM	TC	MS		
1. Doctrinal Foundation:																		
a. Mission and role of the US Army																		
	SL	3	3	2	3	3	2	2	1	3	3	3	2	3	2	3	4	1
	HRS(S)	1	8	4	4	1	4	4	10	2	12	2	4	4	3	2.5		2
CGSC																		
b. Principles of War																		
	SL	3	3	2	1	3	3	3	1	3	3	3	2	2	2	3		1
	HRS(S)	1	6	4	2	1	2	2	10	4	1	2	2	2	4	3		4
CGSC																		
c. US Army Operational Concepts (AirLand Battle)																		
(1) Enemy Air Defenses																		
	SL	4	3	4	4	4	4	4	4	3	4	3h	3	3	4	4		4
	HRS(S)	0	1	0	0	0	0	0	0	1	1	1	1	1	0	0		0
CGSC																		
(2) Suppression of Enemy Air Defenses																		
	SL	4	3	4	4	4	4	4	4	3	4	4	4	4	4	4		4
	HRS(S)	0	1	0	0	0	0	0	0	1	0	0	0	0	0	0		0
CGSC																		
(3) Close Air Support																		
	SL	4	3	4	3	4	3	3	3	3	4	3	3	4	4	3		4
	HRS(S)	0	2	0	2	0	1	1	3	1	0	1	1	0	2			0
CGSC																		
(4) Airspace Management																		
	SL	4	4	4	4	4	3	4	4	4	4	4	4	4	4	4		4
	HRS(S)	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0		0
CGSC																		
(5) Protection of Sensors and Deep Attack Systems																		
	SL	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4		4
	HRS(S)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		0
CGSC																		
(6) Extended Battlefield																		
	SL	4	4	4	3	4	3	3	4	3	3	3	3	4	4	3		4
	HRS(S)	0	0	0	2	0	2	1	0	1	3	1	1	1	0	2.5		0
CGSC																		
d. Underlying Fundamentals of Modern Combat																		
	SL	3	3	3	3	2	3	3	3	3	3	3	2	2	3	3		3
	HRS(S)	1	1	4	1	4	3	4	3	1	2	10	10	1	1	2.5		8
CGSC																		

SUBJECTS

BRANCH SCHOOLS

PRORONMENT

2. Threat Background:

	IN	AR	FA	AD	EN	SC	MP	MI	GA	OD	MH ¹	AG	FI	GM	TC	MS	
a. Mission and Role of the Armed Forces																	
SL	3	3	3	3	3	3	3	3	3	3	3 ^h	3	3	3	3	3	3
HRS(S)	1	1	1	1	1	2	1	3	2	1	9	2	2	1	2	2	.5
b. Organizations and Equipment																	
SL	3	3	3	3	4	3	3	4	3	3	3	3	3	3	3	3	3
HRS(S)	1	4	4	1	0	2	1	0	1	1	1	1	1	1	1	1.5	1
c. Offensive Operations																	
SL	3	3	3	3	3	3	3	4	3	3	3	3	3	3	3	3	3
HRS(S)	1	2	8	1	1	2	1	0	1	1	1	1	1	1	2	1.5	1
d. Defensive Operations																	
SL	3	3	2	2	1	3	3	4	3	3	3	3	3	3	3	3	3
HRS(S)	1	2	2	1	1	2	1	0	1	1	1	1	1	1	3	1.5	.5
e. Combat Support (including NBC & Radio Electronic Combat (REC))																	
SL	3	3	3	3	4	3	3	4	4	3	3	3	4	3	3	3	3
HRS(S)	1	6	2	.5	0	2	2	0	1	1	1	1	0	2	1	1	.5
f. Special Operations																	
SL	3	3	4	3	4	3	3	4	3	3	3	3	4	3	3	3	3
HRS(S)	1	2	0	.5	0	1	2	0	1	1	1	1	0	1	1	1	.5
3. Organizational Basics:																	
a. Leadership																	
SL	2	3	2	3	2	1	3	2	2	2	2	2	2	2	2	2	1
HRS(S)	20	16	12	30	25	400	80	10	6	45	46	20	20	16	16	16	70
b. Organization and Preparation for Combat																	
SL	3	4	3	3	3	3	3	3	3	3	3	2	2	3	3	3	3
HRS(S)	2	0	1	2	1	80	20	3	1	3	10	10	10	5	14	14	3
c. Command and Control and Communications (C3)																	
(1) Staff Procedures in Combat																	
SL	3	4	3	3	3	3	3	4	3	3	2	2	3	3	3	3	3
HRS(S)	1	0	2	2	1	4	10	0	2	2	2	2	2	5	1	1	12
(2) Plans, Orders, Graphics, Records, and Reports																	
SL	3	3	3	3	3	3	3	4	3	2	3	3	3	3	3	3	2
HRS(S)	5	10	1	2	5	6	30	0	2	4	2	2	2	4	5	5	15

SUBJECTS

BRANCH SCHOOLS

PROPOONENT

	IN	AR	FA	AD	EN	SC	MP	MI	OM	OD	MMI	AG	FI	QM	TC	MS	
(3) Decision Making	SL	3	3	3	3	3	3	1	3	2			2	3	2	2	CGSC
	HRS(S)	3	2	4	2	3	4	10	2				2	2	5	13	12
(4) Command and Control Communications (C ²)	SL	3	3	3	3	3	3	4	3	3			3	3	3	3	CGSC
	HRS(S)	2	2	1	2	2	6	3	0	2	1		2	2	5	3	6
4. Tactical Basics:																	
a. Battlefeld Movement (Marches, Maneuver)	SL	3	3	2	2	3	3	3	3	2	3h		3	3	3	3	IN/AR
	HRS(S)	12	4	4	10	2	50	4	3	2	20		2	2	5	4	12/4
b. Tactical Intelligence	SL	3	3	2	3	3	3	4	3	3			3	3	3	3	MI
	HRS(S)	2	1	4	4	1	5	2	0	2			2	2	1	2	0
c. Operational Security	SL	3	3	3	3	3	3	3	3	3			3	3	3	3	CGSC
	HRS(S)	2	2	3	2	1	3	2	3	1			2	2	1	5.5	1
d. Passage of Lines	SL	3	3	3	3	3	3	4	3	4			3	3	3	3	IN/AR
	HRS(S)	1	1	3	2	1	2	0	1	0			1	1	1	1	3/3
e. River Crossing	SL	3	3	3	3	3	3	3	3	4			4	4	3	3	IN/AR/EN
	HRS(S)	2	1	5	2	1	2	3	1	0			0	0	1	2	2/1/1
f. Operations During Periods of Limited Visibility/Night Operations	SL	3	3	3	3	3	3	3	3	2			3	3	3	3	IN/AR
	HRS(S)	1	8	8	4	2	2	3	3	6			4	4	4	4	3/3
g. Patrolling	SL	3	2	3	2	3	3	1	3	2			2	3	3	3	IN
	HRS(S)	20	24	8	10	4	20	6	15	6			4	4	4	8	20
5. Offensive Operations:																	
a. Concepts and Fundamentals	SL	3	3	3	3	3	3	2	3	3	3h		3	3	3	3	IN/AR
	HRS(S)	4	4	4	2	4	10	3	5	1	.5	6	1	4	4	3	3/3

SUBJECTS

BRANCH SCHOOLS

PROPONENT

	IN	AR	FA	AD	EN	SC	MP	MI	OM	OD	MMI	AG	FI	QM	TC	MS		
b. Movement to Contact	SL	3	3	3	3	3	3	3	3	3		3	3	3	3	3	3/3	IN/AR
	HR(S)	4	1	2	1	1	.5	1	3	.2	.5	3	4	4	2	1.5		4/1
c. Meeting Engagement	SL	3	3	3	3	3	3	3	3	3		3	3	3	3	3	3/3	IN/AR
	HR(S)	4	1	2	1	1	.5	1	3	.2	.5	3	4	4	2	1.5		4/1
d. Hasty Attack	SL	3	3	3	3	3	3	3	3	3		3	3	3	3	3	3/3	IN/AR
	HR(S)	4	1	2	1	1	.5	1	3	.2	.5	3	4	4	2	1.5		4/1
e. Deliberate Attack	SL	3	3	3	3	3	3	3	3	3		3	3	3	3	3	3/3	IN/AR
	HR(S)	2	1	2	1	1	.5	1	3	.5	.5	2	2	2	2	2		2/1
f. Exploitation	SL	4	3	3	3	3	3	3	3	3		4	4	3	3	3	4/3	IN/AR
	HR(S)	0	1	1	1	1	.5	5	3	.5	.5	0	0	2	1.5		0/1	IN/AR
g. Pursuit	SL	4	3	3	3	3	3	3	3	3		4	4	3	3	3	4/3	IN/AR
	HR(S)	0	1	.5	1	1	.5	.5	3	.2	.5	0	0	2	1.5		0/1	IN/AR
h. Relief of Encircled Forces	SL	4	3	3	3	3	3	3	3	3		4	4	3	3	3	4/3	IN/AR
	HR(S)	0	1	.5	1	0	.5	.5	3	.2	.5	0	0	1	1		0/1	IN/AR
i. Reconnaissance In Force	SL	4	3	3	3	3	3	3	3	3		4	4	3	3	3	4/3	IN/AR
	HR(S)	0	1	.5	1	0	.5	.5	3	.2	.5	0	0	2	1		0/1	IN/AR
j. Deception Operations (Feints, Ruses, Raids)	SL	4	4	3	3	4	3	3	3	3		4	4	3	3	3	4/4	IN/AR
	HR(S)	0	0	.5	1	0	.5	1	3	.5	.5	0	0	2	1		0/0	IN/AR

6. Defensive Operations:

a. Concepts and Fundamentals

SUBJECTS

BRANCH SCHOOLS

PROPORTION

	IN	AR	FA	AD	EN	SC	MP	MI	DA	OD	MM ¹	AVG	FI	QM	TC	MS		PROPORTION
(1) Covering Force Area	SL	3	3	3	3	3	3	3	3	3	3h	3	3	3	3	3	3/3	IN/AR
	HRS(S)	1	2	1	2	0	4	2	3	.5	1	9	2	2	1	1	1/2	
(2) Main Battle Area	SL	3	3	3	3	4	3	3	3	3	3	3	3	3	3	3	3/3	IN/AR
	HRS(S)	1	2	3	2	0	4	2	3	.5	1	2	2	2	1	1	1/2	
(3) Rear Area	SL	3	3	3	3	4	3	3	3	3	3	3	3	3	3	3	3/3	IN/AR
	HRS(S)	1	2	1	2	0	4	1	3	.5	1	2	2	2	1	1.5	1/2	
b. Defense In Sector	SL	3	3	2	3	3	3	3	3	3	3	3	3	3	3	3	3/3	IN/AR
	HRS(S)	4	2	1	2	1	10	1	3	.5	1	2	2	2	1	2	4/2	
c. Defense from Battle Positions	SL	3	4	3	3	3	3	3	3	3	3	3	3	3	3	3	3/4	IN/AR
	HRS(S)	2	0	1	2	1	.5	2	3	.5	1	1	1	1	1	2	2/0	
(1) Linear	SL	3	4	3	3	3	3	3	3	3	3	3	3	3	3	3	3/4	IN/AR
	HRS(S)	2	0	1	2	1	.5	2	3	.5	1	1	1	1	1	2	2/0	
(2) In-Depth	SL	3	4	3	3	3	3	3	3	3	3	3	3	3	3	3	3/4	IN/AR
	HRS(S)	2	0	1	2	1	.5	2	3	.5	1	1	1	1	1	2	2/0	
(3) Perimeter	SL	3	3	3	2	3	3	3	3	3	3	3	3	3	3	3	3/3	IN/AR
	HRS(S)	2	4	1	4	1	.5	2	3	.5	1	1	1	1	1	2	2/4	
d. Strong Points	SL	3	3	3	3	3	3	3	3	3	3	4	4	3	4	4	3/3	IN/AR
	HRS(S)	1	1	1	2	1	.5	1	3	.5	1	0	0	1	0	0	1/1	
e. Counterattack	SL	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3/3	IN/AR
	HRS(S)	2	1	1	1	1	.5	1	3	.5	1	1	1	1	1	1	2/1	
f. Breakout/Linkup	SL	4	4	3	3	3	3	4	4	3	4	4	4	3	3	3	4/4	IN/AR
	HRS(S)	0	0	1	1	1	.5	2	0	.5	1	0	0	1	2	2	0/0	

SUBJECTS

BRANCH SCHOOLS

PROPONENT

	IN	AR	FA	AD	EN	SC	MP	MI	OM	OD	MM ¹	AG	FI	QM	TC	MS	
7. Retrograde Operations:																	
g. C3 Options Once the Battle Begins																	
SL	3	4	3	3	3	3	3	4	3	3	3 ^h	4	4	4	3	3	3
HRS(S)	2	0	1	1	1	.5	1	0	.5	1	2	0	0	1	2		4
CGSC																	4
a. Disengagement																	
SL	4	3	3	3	3	3	4	3	3	3	3 ^h	4	4	4	3	4	4
HRS(S)	0	2	1	1	1	1	1	1	.5	1	2	0	0	1	0		0/2
IN/AR																	IN/AR
b. Delay																	
SL	4	3	3	3	4	3	3	3	3	3		3	3	3	3	4	4
HRS(S)	0	2	1	2	0	1	1	1	.5	1		1	1	2	0		0/2
IN/AR																	IN/AR
c. Withdrawal																	
SL	3	3	3	3	4	3	3	3	3	3	3	3	3	3	3	4	4
HRS(S)	2	2	1	2	0	1	1	1	.5	1		1	1	1	0		3/3
IN/AR																	IN/AR
d. Retirement																	
SL	4	3	3	3	4	3	4	3	3	3	3	3	3	3	3	4	4
HRS(S)	0	2	1	1	0	1	1	1	.2	1		1	1	1	0		4/3
IN/AR																	IN/AR
8. Cavalry Operations (Atr and Ground):																	
a. Concepts and Fundamentals																	
SL	4	3	3	3	3	3	3	4	3	3	3 ^h	3	3	3	3	3	3
HRS(S)	0	2	1	1	1	3	2	0	1	1	4	2	2	1	1		3
AR																	AR
b. Reconnaissance																	
SL	4	4	4	4	3	3	3	4	3	3		4	4	4	3	3	4
HRS(S)	0	0	0	1	1	.5	2	0	.5	1		0	0	1	1		0
AR																	AR
c. Security																	
SL	4	4	4	4	3	3	3	4	3	3	3	4	4	3	3	3	4
HRS(S)	0	0	0	1	1	.5	1	0	.5	1		0	0	1	1		0
AR																	AR
d. Economy of Force																	
SL	4	4	4	4	3	3	3	4	3	3	3	4	4	3	3	3	4
HRS(S)	0	0	0	1	1	.5	1	0	.5	1		0	0	1	1		0
AR																	AR
e. Operations of Divisional Cavalry (Division 86)																	
SL	4	4	4	4	3	4	4	4	4	3		3	4	4	4	4	4
HRS(S)	0	0	0	1	1	0	0	0	.5	1		1	0	0	0		0
AR																	AR

SUBJECTS

BRANCH SCHEDULES

PROPORTION

SUBJECTS	BRANCH SCHEDULES													PROPORTION			
	IN	AR	FA	AD	EN	SC	MP	MI	QM	OD	MM	AG	F1		QM	TC	MS
f. Covering Force	SL	4	3	4	3	4	3	3	4	3	3	3	4	4	4	4	3
	HRS(S)	0	2	0	1	0	.5	1	0	.5	1	1	0	0	0	0	2
9. Special Military Operations:																	
a. Military Operations in Urban Terrain	SL	3	3	3	3	4	3	3	4	4	3	3	3	3	4	4	3
	HRS(S)	2	1	1	1	0	2	1	0	0	1	3	2	2	1	0	2
b. Rear Area Combat Operations (RACO)	(1) Organization for Combat	SL	3	4	4	3	3	3	4	3	3	3 ^h	2	3	3	3	3/3
	HRS(S)	2	0	0	2	1	1	1	0	1	2	3	1	1	1	2	4/1
(2) Perimeter Defense	SL	3	4	4	3	3	3	4	4	3	2	2	3	3	3	3	3/3
HRS(S)	2	0	0	2	1	1	1	0	0	2	1	1	1	1	1	2	4/1
(3) Active/Passive Security	SL	3	4	4	3	3	3	4	4	3	3	2	3	3	3	3	3/3
HRS(S)	2	0	0	2	1	1	1	0	0	2	1	1	1	1	2	2	4/1
(4) Weapons Employment	SL	3	4	4	3	3	3	4	4	3	3	2	3	3	3	3	3/3
HRS(S)	2	0	0	2	1	1	1	0	0	2	1	1	1	1	2	2	4/1
(5) Physical Layout of Rear Area	SL	3	4	3	3	3	3	4	4	3	3	2	3	4	4	3	3/3
HRS(S)	0	0	1	2	1	1	1	0	0	3	3	1	1	0	2	2	4/1
c. Reconstitution of Ineffective Units	SL	4	3	4	4	4	4	4	4	4	3	4	4	4	4	4	3
	HRS(S)	0	1	0	0	0	0	2	0	0	1	0	0	0	0	0	1
d. Counterinsurgency Operations	SL	3	3	4	4	4	3	4	4	3	3	4	4	4	4	4	3
	HRS(S)	1	1	0	0	1	1	4	0	.5	1	0	0	0	0	0	1
e. Counterterror Operations	SL	3	3	4	4	4	3	3	3	3	3	4	4	4	4	4	3/3
	HRS(S)	1	1	0	0	1	1	4	3	.5	1	0	0	0	0	0	4/1

SUBJECTS

BRANCH SCHOOLS

PROPORTION

	IN	AR	FA	AD	EN	SC	MP	MI	OM	OD	NMI	AG	FI	QM	TC	MS		
f. Special Forces Operations	SL	3	3	4	4	3	3	4	3	3	3	1	4	4	4	3	3	IMA
	HRS(S)	1	1	0	0	1	1	1	.5	1	1	1	0	0	0	1	1	
g. Foreign Internal Defense	SL	3	4	4	4	3	4	4	4	3		1	4	4	4	4	3	IMA
	HRS(S)	1	0	0	0	1	0	0	0	1		0	0	0	0	0	1	
h. Unconventional Warfare	SL	3	3	4	4	3	3	4	4	3	3	3	4	4	4	3	3	IMA
	HRS(S)	1	.5	0	0	1	1	0	0	1	1	1	0	0	0	1	1	
i. Psychological Operations	SL	3	3	4	4	3	3	4	4	3	3	3	4	4	4	4	3	IMA
	HRS(S)	1	.5	0	0	1	1	1	0	1	1	1	0	0	0	0	1	
j. Civil Affairs	SL	3	4	4	4	3	3	4	4	3	3	3	4	4	3	4	3	IMA
	HRS(S)	1	0	0	0	1	1	0	0	1	1	1	0	0	1	0	1	
k. Amphibious	SL	3	3	4	4	3	4	4	4	3	4	4	4	4	4	3	3	IN
	HRS(S)	1	.5	0	0	1	0	1	0	1	0	0	0	0	0	1	1	
l. Airborne	SL	3	3	3	3	3	3	4	3	3	3	3	4	4	3	3	3	IN
	HRS(S)	1	1	1	1	1	.5	1	1	1	1	1	0	0	2	1	1	
m. Airmobile	SL	3	3	3	3	3	3	3	3	3	3	3	4	4	3	3	3	IN
	HRS(S)	1	1	1	1	1	.5	1	1	1	1	1	0	0	2	1	1	
n. Ranger	SL	3	3	3	3	3	3	4	3	3	3	3	4	4	3	3	3	IN/AV
	HRS(S)	1	1	1	1	1	.5	1	1	1	1	1	0	0	2	1	1	

10. Considerations for Special Environments:

a. Desert	SL	3	4	4	3	4	3	3	3	3	3h	4	4	4	4	3	3/4	IN/AR
	HRS(S)	1	0	0	1	0	1	1	.5	1	2	0	0	0	0	1	1/0	

SUBJECTS	BRANCH SCHOOLS														PROponent				
	IN	AR	FA	AD	EN	SC	MP	MI	OM	OD	MMI	AG	FI	OM		TC	MS		
b. Jungle	SL	3	4	4	3	4	3	3	3	3	3	1	4	4	4	3	3	IN	
	HRS(S)	1	0	0	1	0	1	1	1	.5	1	1	0	0	0	1	1	1	
c. Mountain	SL	3	4	4	3	4	3	3	3	3	3	1	4	4	4	3	3	IN	
	HRS(S)	1	0	0	1	0	1	1	1	.5	1	1	0	0	0	1	1	1	
d. Northern Regions	SL	3	4	4	3	4	3	3	3	3	3	1	4	4	4	3	3	IN	
	HRS(S)	1	0	0	1	0	1	1	1	.5	1	1	0	0	0	1	1	1	
11. Indirect Fire Support:																			
a. Request and Adjust Indirect Fire	SL	3	3	2	3	3	3	2	3	3	3	2	2	2	3	3	3	2	FA
	HRS(S)	4	4	8	1	1	10	4	10	1	3	4	4	4	2	5.5	4	4	
b. Artillery Effects (Shell fuze Combinations)	SL	3	3	3	4	3	3	3	4	3	4	0	3	3	3	3	3	3	FA
	HRS(S)	1	2	1	0	1	3	1	0	1	0	0	1	1	1	1	1	.2	
c. Organization, Command and Control	SL	3	3	3	3	4	3	3	4	3	4	0	4	4	4	3	3	4	FA
	HRS(S)	1	2	1	1	0	3	2	0	1	0	0	0	0	2	1	1	0	
d. Priorities of Support on the Extended Battlefield	SL	4	4	4	3	4	4	3	4	4	4	0	4	4	4	3	4	4	FA
	HRS(S)	0	0	0	1	0	0	2	0	0	1	1	0	0	0	1	1	0	
e. Land Space Requirements in the MBA and CFA	SL	4	4	4	4	4	4	4	4	4	4	0	4	4	4	4	4	4	FA
	HRS(S)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
12. Air Defense:																			
a. Short Range Air Defense Systems (SHORAD)	SL	3	3	3	3	4	3	3	3	3	3	3h	3	3	3	3	3	3	AD
	HRS(S)	1	.5	1	1	0	2	2	1	.5	1	4	1	1	1	1	1	1	1
b. Man Portable Air Defense Systems	SL	3	3	3	3	4	3	3	3	3	3	3	3	3	3	3	3	3	AD
	HRS(S)	1	.5	1	1	0	4	2	1	.5	1	1	1	1	1	1	1	1	1

SUBJECTS

BRANCH SCHOOLS

PROFICIENT

	BRANCH SCHOOLS														PROFICIENT		
	IN	AR	FA	AD	EN	SC	MP	MI	GM	OD	MN ¹	AG	FI	GM		TC	MS
c. Non-Divisional Air Defense Systems	SL	3	3	4	3	4	4	3	4	3	3	4	4	3	3	3	3
	HRS(S)	1	.5	0	1	0	0	1	0	.5	1	0	0	0	1	1	1
d. Unit Active Air Defense Measures	SL	3	3	3	3	4	3	3	4	4	3	3	3	3	3	3	3
	HRS(S)	1	.5	1	2	0	1	1	0	0	1	1	1	1	1	1	1
e. Unit Passive Air Defense Measures	SL	3	3	3	3	4	3	3	4	4	3	3	3	3	3	3	3
	HRS(S)	1	.5	1	2	0	4	1	0	0	1	1	1	1	1	1	1
f. Visual Aircraft Recognition	SL	4	3	3	3	4	3	3	4	3	3	3	3	4	3	3	3
	HRS(S)	0	1	1	1	0	2	1	0	.5	0	1	1	1	0	2	2
g. Priorities of Support on the Extended Battlefield	SL	4	3	4	3	4	4	3	4	4	4	4	4	4	3	4	3
	HRS(S)	0	.5	0	1	0	0	.5	0	1	0	0	0	0	1	1	1
h. Land Space Requirements in the MBA and CFA	SL	4	3	4	3	4	4	4	4	4	4	4	4	4	4	4	4
	HRS(S)	0	.5	0	1	0	0	0	0	0	0	0	0	0	0	0	0
13. Army Aviation																	
a. Combat Aviation	SL	3	3	3	3	4	3	3	3	3	3	3	3	3	3	3	3
	HRS(S)	1	.5	.5	1	0	1	1	1	1	.5	2	0	0	1	1	1
b. Combat Support Aviation	SL	3	3	3	3	4	3	3	4	3	3	4	4	3	3	3	3
	HRS(S)	1	.5	.5	1	0	1	.5	0	.5	3	0	0	1	1	1	1
c. Combat Service Support Aviation	SL	3	3	4	3	4	3	3	4	3	3	4	4	3	3	3	3
	HRS(S)	1	.5	0	1	0	1	.5	0	.5	1	0	0	1	1	1	1
14. Tactical Nuclear Operations:																	
a. Nuclear Weapons Effects	SL	3	3	3	3	4	3	3	3	3	3	3	3	3	3	3	3
	HRS(S)	2	1	2	2	0	5	1	1	1	4	3	2	1	2	2	2

SUBJECTS

BRANCH SCHOOLS

PROFICIENT

	IN	AR	FA	AD	EN	SC	MP	MI	OM	OD	MM ¹	AG	FI	QM	TC	NS		
d. General Engineering	SL	3	4	3	3	3	3	4	3	3	3 ^h	3	3	3	3	4	3	EN
	HRS(S)	1	0	1	1	2	1	0	1	1		1	1	1	1	0	1	
e. Atomic Demolition Munition (ADM) Operations	SL	4	3	4	4	4	3	4	4	4		3	4	4	4	4	4	EN
	HRS(S)	0	.5	0	0	0	1	0	0	0		2	0	0	0	0	0	

16. NBC Warfare:

a. U.S. Policy

b. Threat Policy

c. Survivability

d. Offensive Use

e. Defensive Use

f. Reconstitution

g. NBC Logistics

17. Electronic Warfare:

a. Electronic Warfare Support Measures (ESM) (Intercepting, Identifying, Analyzing, Locating)

	SL	3	4	3	4	4	3	4	4	3	3 ^h	3	4	4	4	3	3	MI
	HRS(S)	1	0	.5	0	0	1	0	.5	.5	4	1	0	0	1	1	1	
	SL	4	4	4	4	3	3	4	3	3		4	4	4	3	4	3/3	OM/MM
	HRS(S)	0	0	0	1	1	1	0	1	1		0	0	1	0	0	1/2	
	SL	4	4	2	3	4	3	3	3	3		3	3	3	3	3	3	OM
	HRS(S)	0	0	4	1	0	10	1	3	1		1	1	1	2	1	3	
	SL	4	4	3	3	4	3	4	3	3		4	4	4	3	4	3	OM
	HRS(S)	0	0	0	1	0	2	1	0	1		0	0	1	0	0	1	
	SL	4	4	3	3	4	4	3	3	3		3	3	3	3	3	3	OM
	HRS(S)	0	0	2	1	0	0	1	0	1		1	1	1	2	1	3	
	SL	3	3	3	3	3	1	3	3	3		3	3	3	3	3	3	OM
	HRS(S)	2	.5	4	1	0	4	1	3	1		1	1	2	2	2	2	
	SL	3	3	3	3	3	1	3	3	3		3	3	3	3	3	3	OM
	HRS(S)	1	1	1	1	1	1	0	1	1		1	1	2	2	2	1	
	SL	3	3	3	3	3	1	3	3	3		3	3	3	3	3	3	OM
	HRS(S)	1	1	1	1	1	1	0	1	1		1	1	2	2	2	1	

SUBJECTS

BRANCH SCHOOLS

PROFONENT

	BRANCH SCHOOLS										PROFONENT							
	IN	AR	FA	AD	EN	SC	MP	MI	OM	OD		MM ¹	AG	F1	QM	TC	RS	
b. Electronic Countermeasures (ECH) (Jamming, Electronic Deception)	SL	3	4	3	4	4	3	3	4	3	3	3	4	4	4	3	3	MI
	HRS(S)	1	0	.5	0	0	1	1	0	.5	.5	1	0	0	1	1	1	
c. Signal Security	SL	2	3	3	4	3	3	3	4	3	3	3	3	3	3	3	3	MI/SC
	HRS(S)	2	2	1	0	1	5	1	0	.5	.5	1	1	1	1	2	1/2	
d. Integrated Operations with Tactics	SL	2	4	3	4	4	3	3	4	3	3	3	3	3	3	3	3	MI
	HRS(S)	6	0	1	0	0	1	1	0	.5	.5	1	1	1	1	2	0	
18. Intelligence:																		
a. Electromagnetic Intelligence	SL	4	3	4	4	4	3	3	4	3	3	4	4	4	4	4	4	MI
	HRS(S)	0	.5	0	0	0	.5	1	0	.2	.5	1	0	0	0	0	0	0
b. Imagery Intelligence	SL	3	3	4	4	4	3	4	4	3	4	4	4	4	4	4	4	MI
	HRS(S)	1	.5	0	0	0	.5	0	0	.2	.5	0	0	0	0	0	0	1
c. Human Intelligence	SL	3	3	4	3	4	3	4	4	3	4	4	4	3	4	4	4	MI
	HRS(S)	1	.5	0	2	0	.5	0	0	.2	.5	0	0	1	0	1	0	1
d. Counterintelligence	SL	3	3	4	4	4	3	4	4	3	4	4	4	3	4	4	4	MI
	HRS(S)	1	.5	0	0	0	.5	0	0	.2	.5	0	0	1	0	1	0	1
e. Intelligence Preparation of the Battlefield	SL	2	3	4	4	4	3	4	4	3	4	4	4	4	4	4	4	MI
	HRS(S)	3	.5	0	0	0	.5	0	0	.2	.5	0	0	0	0	0	0	1
f. Tactical All Source Intelligence Production and Management	SL	3	3	3	4	4	3	4	4	3	4	4	4	4	4	4	4	MI
	HRS(S)	1	.5	1	0	0	2	0	0	.5	0	0	0	0	0	0	0	1
19. NATO Interoperability	SL	4	4	3	4	4	4	3	4	4	4	4	4	4	4	4	4	MI
	HRS(S)	0	0	1	0	0	0	1	0	0	1	0	0	0	0	0	0	0

SUBJECTS

BRANCH SCHOOLS

PROPORTION

20. Combat Service Support:

a. Transportation

(1) Load Planning

(a) Air

	IN	AR	FA	AD	EN	SC	MP	MI	OM	OU	PH ¹	AG	FI	QM	TC	MS		
SL	3	3	3	4	4	3	4	4	3	3	3 ^h	4	4	4	4	3	4	TC
HRS(S)	1	.5	.5	0	0	1	0	0	.3	1	7	0	0	0	1	0	0	

(b) Land

SL	3	3	3	4	4	3	4	4	3	3		4	4	3	3	3	4	TC
HRS(S)	1	.5	.5	0	0	1	0	0	.3	1		0	0	1	1	1	0	

(c) Sea

SL	4	3	4	4	4	4	4	4	3	3		4	4	4	4	4	4	TC
HRS(S)	0	.5	0	0	0	0	0	0	.3	1		0	0	0	0	0	0	

(2) Convoy Operations

SL	3	2	3	3	4	3	4	4	3	3		4	4	3	3	3	3	TC
HRS(S)	1	2	2	2	0	2	1	0	.2	.5		0	0	1	2	2	2	

(3) Movement Control

SL	3	3	3	3	4	3	4	4	3	3		4	4	3	3	3	4	TC
HRS(S)	1	.5	1	2	0	1	0	0	.3	.5		0	0	1	1	1	0	

(4) Aviation Logistics

SL	4	4	4	4	4	4	4	4	3	3		4	4	4	4	3	4	TC
HRS(S)	0	0	0	0	0	0	0	0	.5	.5		0	0	0	1	1	0	

b. Ammunition

(1) Support Structure and Requisitioning

SL	3	4	4	4	4	4	4	4	3	3		4	4	4	4	4	3	NM
HRS(S)	1	0	0	0	0	0	0	0	1	1		0	0	0	0	0	2	

(2) Safety, Storage, and Transportation

SL	3	3	4	4	4	4	4	4	3	3		4	4	3	3	3	3	NM
HRS(S)	1	.5	0	0	0	0	0	1	1	2		0	0	1	1	1	4	

(3) Supply Rates and DAO Functions

SL	3	4	4	4	4	4	4	4	3	3		4	4	3	4	4	3	NM
HRS(S)	1	0	0	0	0	0	1	0	1	1		0	0	1	0	0	3	

SUBJECTS

BRANCH SCHOOLS

PROFONMENT

SUBJECTS	BRANCH SCHOOLS													PROFONMENT				
	IN	AR	FA	AD	EN	SC	MP	MI	QA	OD	NM ¹	AG	EI		QM	TC	MS	
(4) Munitions Identification	SL	3	3	3	4	4	3	4	4	3	3	4	4	4	4	4	3	NM
	HRS(S)	1	1	1	0	0	1	0	2	1	1	0	0	0	0	0	2	
(5) Emergency Destruction Procedures	SL	4	4	3	4	4	4	3	4	4	4	4	4	4	4	4	3	NM
	HRS(S)	0	0	2	0	0	0	1	1	0	0	0	0	0	0	0	2	
(6) EOD Operations	SL	3	3	4	4	4	3	4	4	3	3	4	4	4	4	4	3	NM
	HRS(S)	1	.5	0	0	0	1	0	0	1	1	0	0	0	0	0	2	
c. Maintenance																		
(1) Recovery and Evacuation	SL	3	4	3	3	4	3	3	3	4	3	3	3	4	4	4	4	OD
	HRS(S)	1	0	1	1	0	1	1	.2	0	1	1	1	1	0	0	0	
(2) Command and Staff Management of Preventive Maintenance	SL	3	4	3	3	4	3	4	4	3	3	3	3	4	4	3	3	OD
	HRS(S)	1	0	1	2	0	2	0	.2	1	1	1	1	0	1	1	1	
(3) Repair Parts Supply (PLL)	SL	3	4	3	3	4	3	3	3	4	3	3	3	4	4	4	3	QM
	HRS(S)	1	0	1	1	0	5	1	.2	0	1	1	1	0	0	0	1	
(4) Preventive Maintenance Checks and Services (PMCS)	SL	3	3	3	3	4	3	3	4	4	3	3	3	3	3	3	3	OD
	HRS(S)	1	4	3	3	1	1	0	.2	0	1	2	2	1	1	1	0	
(5) The Army Maintenance Management System (TAMMS)	SL	3	3	3	3	4	3	3	3	4	3	3	3	3	3	3	3	OD
	HRS(S)	1	4	2	2	0	5	1	.5	0	1	2	2	1	1	2	0	
d. Manpower																		
(1) Accountability	SL	1	3	3	4	4	3	4	4	3	3 ^h	3	3	3	3	3	3	SSC
	HRS(S)	1	.5	2	0	0	1	1	0	1	1	1	1	1	1	1	1	
(2) Estimates	SL	4	4	4	4	4	3	4	4	3	3	4	4	4	4	4	4	SSC
	HRS(S)	0	0	0	0	0	1	1	0	1	0	0	0	0	0	0	0	

SUBJECTS

BRANCH SCHOOLS

PROPOSER

		BRANCH SCHOOLS													PROPOSER					
		IN	AR	FA	AD	EN	SC	MP	MI	QM	OD	MM	AG	FI		QM	TC	MS		
(3) Casualty Reporting/ Notification	SL	4	3	4	4	4	3	3	4	4	3	3	3	3	4	4	4	3	SSC	
	HRS(S)	0	.5	0	0	0	1	1	0	0	1	1	1	1	0	0	0	1		
(4) Replacements	SL	4	3	4	3	4	3	3	4	4	3	4	4	4	4	4	4	4	SSC	
	HRS(S)	0	.5	0	1	0	1	1	0	0	1	0	0	0	0	0	0	0		
(5) Health Care	(a) Treatment of Casualties (First Aid)	SL	1	1	2	2	2	3	3	2	2	2	2	2	3	2	2	1	ANS	
		HRS(S)	4	6	10	20	6	10	20	3	3	3	6	6	6	12	8	30		
	(b) Medical Evacuation	SL	3	3	4	4	3	3	4	3	3	3	3	3	4	3	3	3	ANS	
		HRS(S)	1	1	0	0	1	1	1	0	1	1	1	1	0	1	1	2		
e. Supply	SL	3	3	3	3	3	3	3	4	3	3	3	3	3	3	3	3	3	QM	
	HRS(S)	2	1	4	3	1	40	4	0	1	2	8	6	6	4	3	3	1		
f. Petroleum, Oil, and Lubricants (POL)	SL	3	3	4	4	4	3	3	4	3	3	4	4	4	3	4	4	3	QM	
	HRS(S)	1	1	0	0	0	1	1	0	0	1	1	0	0	1	0	1	1		
g. Substance	SL	3	3	4	4	3	3	3	4	3	3	4	4	4	3	4	4	3	QM	
	HRS(S)	1	1	0	0	1	1	1	0	0	1	0	0	0	1	0	0	1		
h. Field Services	SL	3	3	4	4	3	3	3	3	3	3	4	4	4	3	4	4	3	QM	
	HRS(S)	1	1	0	0	1	1	1	1	0	1	0	0	0	1	0	0	1		
21. Fundamentals of Combat:																				
a. Vehicle Recognition	SL	3	3	3	3	4	3	3	4	3	3	4	3	3	3	3	3	3	CATRAOA	
	HRS(S)	1	2	6	1	0	1	1	0	.5	3	1	1	1	1	1	2	2		
b. POW Processing	SL	3	4	3	4	4	3	4	3	3	3	4	4	4	4	4	4	4	MP/MI	
	HRS(S)	1	0	2	0	0	1	0	1	0	1	1	0	0	0	0	0	0	4/3 0/1	

