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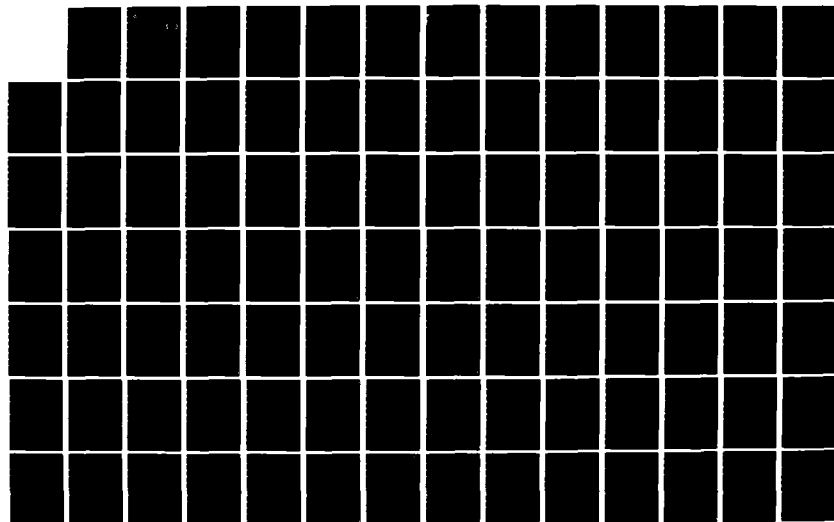
COMBINED ARMS SUFFICIENCY STUDY (CASS) UPDATE(U) ARMY
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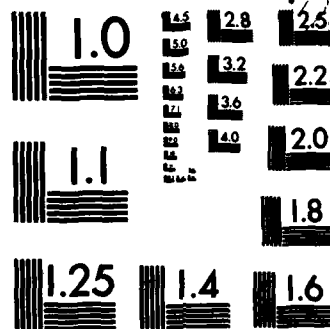
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DEPARTMENT OF THE ARMY
U.S. ARMY COMMAND AND GENERAL STAFF COLLEGE
FORT LEAVENWORTH, KANSAS 66027

REPLY TO
ATTENTION OF

ATZL-SWP-IT

7 APR 1983

SUBJECT: Combined Arms Sufficiency Study (CASS) Update

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1. References:

a. Letter, Headquarters, Combined Arms Center and Fort Leavenworth, dated 23 September 1981, Subject: Combined Arms Sufficiency Study.

b. Letter, Headquarters, Combined Arms Center and Fort Leavenworth, dated 26 November 1982, Subject: Combined Arms Sufficiency Study.

c. Message, Commander USACAC and Fort Leavenworth, ATZL-SWP-IT, DTG 182346Z February 1983, Subject: Combined Arms Sufficiency Study (CASS).

2. As announced in reference b, the update of the original Combined Arms Sufficiency Study (reference a), has been accomplished. Results of the study are forwarded for your use.

3. The results of this study are to be used to gauge the sufficiency of Combined Arms instruction at the level necessary for company grade officers to have an understanding of their role in the AirLand Battle. Pay particular attention to the subjects rated by the schools at Sufficiency Level 1 and 2. Also of special interest are the subject areas identified as anomalies in the study, and those subjects which are treated in specified schools in a manner significantly at variance from the norm.

4. The CASS is intended to be used as a reference during development of Combined Arms training in Officer Basic and Advanced Courses to assure that Combined Arms subjects receive adequate attention. CASS data will continue to be refined and updated in the future. Study results will also be used during TRADOC Service School Evaluations and during CAC quarterly liaison visits to assess the overall adequacy of Combined Arms training.

5. Although the focus on Combined Arms Sufficiency, for this study, has been on institutional programs, Combined Arms subject coverage in non-resident course material should also be examined for currency and completeness.

6. Due to actions pending at HQ TRADOC on the status of overall training strategies, the action plan, previously requested, to describe the treatment of Combined Arms training is hereby placed in abeyance. Additional instructions will be forthcoming.

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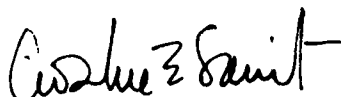
ATZL-SWP-IT

SUBJECT: Combined Arms Sufficiency Study (CASS) Update

7 APR 1983

In the interim the team from the Combined Arms Training Integration Directorate will be available on request to assist with Combined Arms programs for OBC and OAC.

1 Encl
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COMBINED ARMS SUFFICIENCY STUDY

UPDATE .

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Combined Arms Sufficiency Study (CASS) Update

GENERAL

1. Since the initial Combined Arms Sufficiency Study (CASS), dated 23 September 1981, many changes have taken place as new doctrine has been published and many programs of instruction (POI) for Officer Basic and Advanced Courses have evolved to accommodate new requirements. The intent of the Combined Arms Sufficiency Study as originally conducted, was to obtain a snapshot of the status of Combined Arms instruction at the time and provide commandants comparative data with which they could make an educated estimate of the effectiveness of their combined arms instruction. The original intent is still applicable.
2. The purpose of the current update is to build on the original study, refine the Combined Arms Sufficiency data, and through a systematic process, identify courses of action to continue to enhance Combined Arms instruction in company level professional development courses.
3. The original study pointed out that there is little if any standardization in the way Combined Arms subjects are treated in various school POI. However, there was general consensus that to do the Combined Arms teaching job to standards which could be considered sufficient, more time and resources were needed than are presently available. Thus hard decisions are required to teach both essential specialty subjects and Combined Arms fundamentals in the time available.
4. This update is intended to develop Combined Arms Sufficiency data to a credible confidence level so that decisions can be made on tradeoffs and accommodations, with a clear understanding of what the costs are in terms of specialty and Combined Arms understanding.
5. The objectives of the present Combined Arms Sufficiency update are to:
 - a. Identify all Combined Arms subjects and develop an updated list.
 - b. Identify Combined Arms subjects which should be taught in Officer Basic and Advanced Courses, and to what level of sufficiency.
 - c. Enhance Combined Arms instruction by better defining personnel and other resource requirements.
 - d. Facilitate the infusion of Combined Arms subjects into the OJTA process.
6. The Combined Arms subjects identified in the updated data are forwarded for use by the commandants in assessing the relative emphasis on Combined Arms training in officer professional development courses. Not only is a snapshot of Combined Arms treatment in individual schools provided but also a collective view of how other schools and subject proponents treat each Combined Arms subject.

7. The requirement for submission of Individual School Action Plans for achieving Combined Arms Sufficiency in OAC and OBC, as originally discussed in the 26 November 1982 letter, is hereby placed in abeyance. Further guidance on Combined Arms training strategies will be provided by separate correspondence. However, a Combined Arms team from this headquarters can be made available upon request to work with individual school staffs in developing OAC and OBC Combined Arms programs.

8. At the direction of the Commander, TRADOC, the results of the Combined Arms Sufficiency Study have been used in the development of a proposed list of common core Combined Arms subjects for possible mandatory instruction in Officer Advanced Courses. Further action on this is still pending. If directed, the common core subject list will be promulgated by separate correspondence. At Annex L is the list of Combined Arms subjects recommended to TRADOC for inclusion in the proposed common core. Comparison of current Combined Arms training with this proposed common core subject list may indicate where improvements or adjustments are needed in OBC and OAC POI's.

DISCUSSION

9. All Combined Arms subjects have been grouped under specific battlefield functional areas in accordance with doctrinal categorization in FM 100-5. Annex B identifies Combined Arms subjects by functional area.

10. It should be noted that the following subjects: Command Post Function and Organization, Military Police Operations, Area Damage Control, Rear Area Protection, Terrain Analysis, Air Cavalry, Mine Warfare, USA Organization and Capabilities (Bn, Bde, Div, Corps) and Internal Defense and Development, have been added to the Combined Arms Subject List. Though not included on the recent survey, these subjects will be included during future surveys and should be included in individual programs where appropriate. For the purpose of this review, best judgement sufficiency levels have been assigned to each subject (see Annex C). More precise levels will be established during subsequent updates. Other changes to the original Combined Arms list: (a) Tactical Nuclear Operations (paragraph 14) and NBC Warfare (paragraph 16) have been consolidated under the umbrella of Nuclear Chemical Action Plan (NUCAP) tasks. (b) Proponent recommended sufficiency levels and hours for Army Aviation have been aligned with the 19 aviation tasks identified in the RETO process. (c) The original Combat Service Support subjects have been adjusted to reflect the organization and functions of CSS forces in the context of AirLand Battle, instead of peacetime operations.

11. Correlation has been established between the original CSS subjects surveyed and the adjusted CSS listing to reflect the AirLand Battle context. In accomplishing this, some earlier listed subjects determined to be no longer applicable in the AirLand Battle context have been merged with other subjects and deleted from the list as stand alone subjects. Following are some key adjustments to the previous CSS subject list: (a) "Logistics Operations", has subsumed Ammunition Support Structure and Requisitioning, Ammunition Supply Rates and DAO Functions, and Supply. (b) "Transportation Operations", has subsumed Convoy Operations and Movement Control. (c) "Maintenance Operations" has subsumed Recovery and Evacuation, Command and Staff Management of Preventive Maintenance and The Army Maintenance Management System. (d) "Personnel and Administration Operations" has subsumed Manpower Accountability, Casualty Reporting and Replacements. (e) "Medical Services Operations" has subsumed First Aid and Medical Evacuation.

12. It is important to align Combined Arms instruction for the student officer with the appropriate tactical level of involvement on the battlefield. In order to assist in determining the appropriate tactical level of involvement by branch, a schematic of the typical echelons where branch officers will be found on the AirLand Battlefield is at Annex I.

13. The process of folding Combined Arms subjects into the OJTA/MQS system must be initiated to insure that Combined Arms subjects receive proper attention during the training development process. It is recognized that converting Combined Arms subjects, as we have described them in the CASS,

into specific task descriptions for an officer will be somewhat challenging. However, because of the importance of these subjects to the officer's understanding of the conduct of AirLand Battle, this incorporation must be made. Designated subject proponents are expected to take the lead in this adaptation.

14. To facilitate the development of tasks and to insure that current doctrine and training support is provided, liaison between schools is encouraged. To reiterate a recommendation made in the original CASS, a traditional means of updating service school faculty is to periodically bring the faculty member "back home" to his/her branch school to receive information on changes and new ideas. This should be one of the principal goals of each branch proponent in implementing better Combined Arms training.

15. Since the lack of resources and differing mix and experience level of instructors at individual schools can have a significant impact on the type and quality of instruction, another purpose of the CASS is to assure that resources are made available for the schools to conduct Combined Arms instruction to required sufficiency. Commandants should review present Combined Arms instruction capabilities and where voids exist that cannot be corrected, request assistance as appropriate. CAC will actively support all reasonable and verifiable requests for necessary resources.

FINDINGS

16. Analysis of the updated CASS data revealed, as expected, continuing differences among the TRADOC schools as to the importance of individual Combined Arms subjects, what constitutes a sufficient understanding of each in terms of the various branches and specialties, and the emphasis being placed on Combined Arms training in general. In order to promote some congruency in the treatment of Combined Arms subjects, an effort has been made to correlate subject sufficiency input by functional grouping as follows:

- a. Combat Arms, Maneuver - (Infantry, Armor and Aviation).
- b. Combat Arms, Non-Maneuver - (Field Artillery, Air Defense Artillery and Engineer).
- c. Combat Support - (Signal Corps, Military Police, Military Intelligence and Chemical Corps).
- d. Combat Service Support - (Ordnance, Missile and Munitions, Adjutant General, Finance Corps, Quartermaster, Transportation and Medical Service Corps).

By grouping sufficiency data in the manner described above, distinctions between the requirements of individual branches and specialties can be more effectively made.

17. Examination of the original Combined Arms subject list revealed several subject areas which probably should not have been considered Combined Arms in the context of CASS. Although such subjects may be important and highly regarded by the schools, they are more naturally associated with individual Common Military Training (CMT), or specialty development training. At Annex A are subjects determined to be in this category which have been deleted from the most recent Combined Arms subject list. Appendices 1 through 8 list these subjects in sufficiency level priority, for each functional arms group, as reported by the schools.

18. Survey results for Combat Arms (Maneuver and Non-Maneuver) are at Annex D. Combat Support schools data are at Annex E and Combat Service Support school data are at Annex F.

19. Based on data submitted by service schools and subject proponents, and using methodology described in Annex K, relative importance of individual Combined Arms subjects has been established (for OAC and OBC) for Combat Arms (Maneuver and Non-Maneuver), Combat Support and Combat Service Support Schools. The resulting Combined Arms subjects rated by the schools at sufficiency level 1 and 2 (with mean (average) hours indicated for acquiring that sufficiency) are at Annex G. The Combined Arms subjects rated at sufficiency level 3 and 4 are at Annex H. (It should be noted that schools and subject proponents often disagreed as to required sufficiency levels and hours. As was expected, proponents consistently called for more time and higher emphasis.)

20. In reviewing the input, certain anomalies were noted which need clarification. For example, in a number of cases little or no instruction is shown for subjects which have been determined to merit sufficiency level 1 and 2. The question which needs to be answered in these cases is why little or no coverage is being provided if understanding the subject is essential. In other cases instructional time is being devoted to subjects rated at sufficiency level 4, and subjects identified as requiring familiarity but no instructional time required. At Annex J is a list of such anomalies.

CONCLUSIONS

21. Unlike the original CASS, no subjective determination as to what subjects are "sufficient", "insufficient" or "not determined" was made. Due to the variances in specialty requirements and levels of tactical involvement in the AirLand Battle, a flexible approach will be taken to the treatment of Combined Arms subjects in individual programs. What is sufficient for one specialty may not be for another. The main objective is to provide meaningful data which commandants can use in deciding what should be taught in individual programs.

22. This study should be useful to commandants as a reference during future course development. The data in the CASS will allow the commandant to compare current Combined Arms training programs with other branch schools having a similar function on the AirLand Battlefield.

23. Review of OBC and OAC course programs of instruction should focus on the subjects rated at sufficiency level 1 and 2, the anomalies, and the subjects where coverage appears significantly at variance with other schools.

24. The CASS will be used by CAC Combined Arms Integration Teams as a reference during future OBC and OAC Program of Instruction (POI) reviews, and during future liaison/assistance visits to discuss Combined Arms training.

ANNEX A

SUBJECTS DELETED FROM THE COMBINED ARMS SUBJECT LIST

ANNEX A

SUBJECTS DELETED FROM COMBINED ARMS SUBJECT LIST¹
(ALPHA NUMERIC DIGIT REFERS TO ORIGINAL CASS PARAGRAPH)

- 1a Mission and Role of USA
- 1c(1) Enemy AD²
- 1c(5) Protection of Sensors and Deep Attack Systems
- 1c(6) Extended Battlefield³
- 1d Underlying Fundamentals of Modern Combat³
- 5c Meeting Engagement⁴
- 6g C³ Options Once the Battle Begins⁵
- 7a Disengagement⁶
- 8f Covering Force
- 11b Artillery Effects (Shell fuze Combinations)
- 12f Visual Aircraft Recognition
- 14. Tactical Nuclear Operations⁷
 - a. Nuclear Weapons Effects
 - b. The Nuclear Battle
 - (1) Planning
 - (2) Tactics
 - c. Nuclear Release and Employment
 - d. Nuclear Logistics
 - e. Reconstitution
 - f. C³ on the Nuclear Battlefield⁵
- 15e Atomic Demolition Munition (ADM) Operations
- 16. NBC Warfare⁷
 - a. US Policy
 - b. Threat Policy
 - c. Survivability
 - d. Offensive Use
 - e. Defensive Use
 - f. Reconstitution
 - g. NBC Logistics
- 17d Integrated Intelligence Operations with Tactics
- 19. NATO Interoperability
- 20a(1) Load Planning
 - (a) Air
 - (b) Land
 - (c) Sea
- 20a(4) Aviation Logistics
- 20b(2) Ammunition Safety, Storage and Transportation
- 20b(4) Munition Identification
- 20b(5) Ammunition Emergency Destruction Procedures
- 20b(6) EOD Operations
- 20c(3) Repair Parts Supply (PLL)
- 20c(4) Preventive Maintenance Checks and Services (PMCS)
- 20d(2) Estimates⁸

20f	Petroleum, Oil and Lubricants (POL)
20g	Subsistence
21a	Combat Vehicle Identification
21b	POW Processing
21c	Geneva Convention
21d	Code of Conduct
21e	Process Captured Documents and Material
21f	Land Navigation
21g	Use of Organic Radio Equipment
21j	Training Management (to include OPFOR Training)
21k	How To Train ⁸

NOTES:

1. Subjects on this list have been determined to be Common Military Training (CMT) in nature, and thus deleted from this CASS list, or have been rolled up into broader Combined Arms categories for purposes of the CASS.
2. Subject included in Threat.
3. Subject included in USA AirLand Battle Operational Concept.
4. Subject included in Movement to Contact.
5. Subject included in Command, Control and Communications (C3).
6. Subject included in Retrograde Operations.
7. Subjects covered in Nuclear Chemical Action Plan (NUCAP) tasks (paragraph 6D, Nuclear and Chemical Weapons Employment).
8. Subject Proponent Recommended Deletion.

***ANNEX A**

APPENDIX 1 THROUGH 4

**REPORTED DATA ON SUBJECTS DELETED FROM THE
COMBINED ARMS SUBJECT LIST FOR OFFICER BASIC COURSES**

***Since some of these subjects will be of interest in future training development, in individual programs, data collected during this update is displayed in a format reflecting priority of emphasis as reported.**

ANNEX A

APPENDIX 1

REPORTED DATA ON SUBJECTS DELETED FROM THE ORIGINAL
COMBINED ARMS LIST (ALPHA-NUMERIC DIGIT REFERS TO ORIGINAL LIST PARAGRAPH NUMBER)
FOR COMBAT ARMS MANEUVER OBC

<u>SUBJECTS</u>		<u>RECOMMENDED SUFFICIENCY LEVEL</u>	<u>AVERAGE TIME REQUIRED HR(S)</u>
21d	Code of Conduct	1	1.3
21c	Geneva Convention	1.3	1.7
21f	Land Navigation	1.3	22.3
21g	Use of Organic Radio Equipment	1.3	14.7
20c(4)	Preventive Maintenance Checks and Services	1.7	18.3
5c	Meeting Engagement	2	6.7
7a	Disengagement	2	5.5
11b	Artillery Effects	2	2.7
17d	Integrated Intelligence Operations with Tactics	2	5.7
20b(4)	Munition Identification	2	2.8
21k	How to Train	2	12.7
1a	Mission/Role of USA	2.3	2.3
1d	Underlying Fundamentals of Modern Combat	2.3	2.7
12f	Visual Aircraft Recognition	2.3	2
21a	Combat Vehicle Identification	2.3	4.3
21b	POW Processing	2.3	1.3
21j	Training Management	2.3	6.7
6g	C3 Options Once the Battle Begins	2.7	2
8f	Covering Force	2.7	2
20b(2)	Ammo, Safety, Storage & Transportation	2.7	1.5
20c(3)	PLL	2.7	5.3
20f	POL	2.7	1.7
1c(1)	Enemy AD	3	1.3
20a(1)(b)	Land Load Planning	3	1.7
20b(5)	Ammo Emergency Destruction Procedures	3	1.5
20g	Subsistence	3	0.5
21e	Process Captured Documents & Material	3	1
1c(6)	Extended Battlefield	3.3	0.7
15e	ADM Operations	3.3	0.2
19	NATO Interoperability	3.3	0.7
20a(1)(a)	Air Load Planning	3.3	1.2
20a(1)(c)	Sea Load Planning	3.3	0.8
20b(6)	EOD Operations	3.3	0.3
1c(5)	Protection of Sensors and Deep Attack Systems	3.7	0.7
20a(4)	Aviation Logistics	3.7	0.7
20d(2)	Estimates	3.7	0.2

ANNEX A

APPENDIX 2

REPORTED DATA ON SUBJECTS DELETED FROM THE ORIGINAL
COMBINED ARMS LIST (ALPHA-NUMERIC DIGIT REFERS TO ORIGINAL LIST PARAGRAPH NUMBER)
FOR CA NON-MANEUVER OBC

<u>SUBJECTS</u>		<u>RECOMMENDED SUFFICIENCY LEVEL</u>	<u>AVERAGE TIME REQUIRED HR(S)</u>
21f	Land Navigation	1	14
21g	Use of Organic Radio Equipment	1.33	9.67
21k	How to Train	1.5	5.5
20c(4)	Preventive Maintenance Checks and Services	1.67	9.07
21j	Training Management	1.67	9.73
20b(4)	Munition Identification	2	1.17
20c(3)	PLL	2	7.67
21a	Combat Vehicle Identification	2	2.4
21d	Code of Conduct	2	1.07
1a	Mission and Role of USA	2.33	1.5
1d	Underlying Fundamentals of Modern Combat	2.33	3.23
5c	Meeting Engagement	2.33	1
20b(2)	Ammo Safety, Storage and Transpor- tation	2.33	1.17
20b(5)	Ammo Emergency Destruction Procedures	2.33	.9
21c	Geneva Convention	2.33	2.33
1c(1)	Enemy AD	2.67	.73
6g	C ³ Options Once the Battle Begins	2.67	6
20a(1)(a)	Air Load Planning	2.67	1.5
20a(1)(b)	Land Load Planning	2.67	1.67
20a(1)(c)	Sea Load Planning	2.67	.83
20f	POL	2.67	1.69
21e	Process Captured Documents and Material	2.67	.83
7a	Disengagement	3	.83
8f	Covering Force	3	2.17
11b	Artillery Effects	3	1
12f	Visual Aircraft Recognition	3	.55
15e	ADM Operations	3	.75
17d	Integrated Intelligence Operations	3	.63
19	NATO Interoperability	3	1.67
20b(6)	EOD Operations	3	1

<u>SUBJECTS</u>		<u>RECOMMENDED SUFFICIENCY LEVEL</u>	<u>AVERAGE TIME REQUIRED HR(S)</u>
20g	Subsistence	3	2
21b	POW Processing	3	.73
1c(6)	Extended Battlefield	3.33	.67
20a(4)	Aviation Logistics	3.33	.37
20d(2)	Estimates	3.33	.67
1c(5)	Protection of Sensors and Deep Attack Systems	3.67	.67

ANNEX A

APPENDIX 3

REPORTED DATA ON SUBJECTS DELETED FROM ORIGINAL
COMBINED ARMS LIST (ALPHA-NUMERIC DIGIT REFERS TO ORIGINAL LIST PARAGRAPH NUMBER)
FOR COMBAT SUPPORT OBC

<u>SUBJECTS</u>		<u>RECOMMENDED SUFFICIENCY LEVEL</u>	<u>AVERAGE TIME REQUIRED HR(S)</u>
21d	Code of Conduct	1.5	2.5
21f	Land Navigation	1.5	23
21g	Use of Organic Radio Equipment	1.5	19.25
21k	How to Train	1.67	9.67
21j	Training Management	1.75	22.75
1a	Mission and Role of USA	2	3
20c(3)	PLL	2	3.5
20c(4)	Preventive Maintenance Checks and Services	2	2.75
21c	Geneva Convention	2	1.75
21e	Process Captured Documents and Material	2	1.75
21b	POW Processing	2.3	3.13
11e	Artillery Effects	2.5	2
12f	Visual Aircraft Recognition	2.5	.73
17d	Integrated Intelligence Operations with Tactics	2.5	1.5
20f	POL	2.5	.81
20g	Subsistence	2.5	.81
21a	Combat Vehicle Identification	2.5	6.13
15e	ADM Operations	3	.63
20a(1)(a)	Air Load Planning	3	.25
20a(1)(b)	Land Load Planning	3	.25
20b(2)	Ammo Safety, Storage and Transportation	3	.88
20b(5)	Ammo Emergency Destruction Procedures	3	.75
20b(6)	EOD Operations	3	.5
20a(1)(c)	Sea Load Planning	3.3	.25
20b(4)	Munition Identification	3.3	.5
1c(5)	Protection of Sensors and Deep Attack Systems	3.5	.75
19	NATO Interoperability	3.5	.38
20a(4)	Aviation Logistics	3.5	.5

ANNEX A

APPENDIX 4

REPORTED DATA ON SUBJECTS DELETED FROM ORIGINAL
COMBINED ARMS LIST (ALPHA-NUMERIC DIGIT REFERS TO ORIGINAL LIST PARAGRAPH NUMBER)
FOR COMBAT SERVICE SUPPORT OBC

	<u>SUBJECTS</u>	<u>RECOMMENDED SUFFICIENCY LEVEL</u>	<u>AVERAGE TIME REQUIRED HR(S)</u>
21g	Use of Organic Equipment	1	7.71
20c(4)	Preventive Maintenance Checks and Services	1.43	5.64
21f	Land Navigation	1.43	9.57
21d	Code of Conduct	1.57	1.93
21j	Training Management	1.57	12.14
21k	How to Train	1.57	11
21c	Geneva Convention	1.86	1.93
1a	Mission and Role of USA	2	2.07
20c(3)	PLL	2	6.29
20a(1)(b)	Land Load Planning	2.14	2.33
20g	Subsistence	2.14	3
20f	POL	2.29	2.14
20b(2)	Ammo Safety, Storage and Transportation	2.43	2.07
20d(2)	Estimates	2.43	1.75
21b	POW Processing	2.57	1.29
21e	Process Captured Documents and Material	2.57	1.14
12f	Visual Aircraft Recognition	2.71	1.67
20a(1)(a)	Air Load Planning	2.71	4.17
20a(1)(c)	Sea Load Planning	2.71	1.83
21a	Combat Vehicle Identification	2.71	1.57
11b	Artillery Effects	3	1
19	NATO Interoperability	3	1.57
20b(4)	Munition Identification	3	1.29
20a(4)	Aviation Logistics	3.14	1.42
8f	Covering Force	3.29	.71
17d	Integrated Intelligence Operations with Tactics	3.29	.92
20b(5)	Ammunition Emergency Destruction Procedures	3.29	.93
20b(6)	EOD Operations	3.29	.64
1c(5)	Protection of Sensors & Deep Attack Systems	3.43	.42
15e	ADM Operations	3.71	.17

***ANNEX A**

APPENDIX 5 THROUGH 8

**PRIORITIZATION OF SUBJECTS DELETED FROM THE
COMBINED ARMS SUBJECT LIST FOR OFFICER ADVANCED COURSES**

***Since some of these subjects will be of interest in future training development, in individual programs, data collected during this update is displayed in a format reflecting priority of emphasis as reported.**

ANNEX A

APPENDIX 5

REPORTED DATA ON SUBJECTS DELETED FROM THE ORIGINAL
COMBINED ARMS LIST (ALPHA-NUMERIC DIGIT REFERS TO ORIGINAL LIST PARAGRAPH NUMBER)
FOR COMBAT ARMS MANEUVER OAC

	<u>SUBJECTS</u>	<u>RECOMMENDED SUFFICIENCY LEVEL</u>	<u>AVERAGE TIME REQUIRED HR(S)</u>
21c	Geneva Convention	1	2
21d	Code of Conduct	1	2
21g	Use of Organic Radio Equipment	1	16
1d	Underlying Fundamentals of Modern Combat	1.3	2.3
5c	Meeting Engagement	1.3	5
20c(4)	Preventive Maintenance Checks and Services	1.3	6
21j	Training Management	1.3	21
21k	How to Train	1.3	8.7
6g	C3 Options Once the Battle Begins	1.7	3
7a	Disengagement	1.7	2.8
8f	Covering Force	1.7	18.7
11b	Artillery Effects	1.7	1.7
17d	Integrated Intelligence Operations with Tactics	1.7	2
21f	Land Navigation	1.7	8
1a	Mission and Role of USA	2	1
1c(6)	Extended Battlefield	2	2.3
12f	Visual Aircraft Recognition	2	1.7
20b(2)	Ammo Safety Storage and Transportation	2	1.5
20b(4)	Munition Identification	2	2.8
20c(3)	PLL	2	7
20f	POL	2	2.7
21a	Combat Vehicle Identification	2	2.7
21b	POW Processing	2	1
1c(1)	Enemy AD	2.3	1.7
20a(1)(a)	Air Load Planning	2.3	3.7
20a(1)(b)	Land Load Planning	2.3	1.3
20g	Subsistence	2.3	1.5
19	NATO Interoperability	2.7	3.7
20b(5)	Ammo Emergency Destruction Procedures	2.7	0.8
20d(2)	Manpower Estimates	2.7	1
21e	Process Captured Documents and Material	2.7	1.3
1c(5)	Protection of Sensors and Deep Attack Systems	3	1
15e	ADM Operations	3	0.5
20a(1)(c)	Sea Load Planning	3	0.8
20a(4)	Aviation Logistics	3	7
20b(6)	EOD Operations	3	0.8

ANNEX A

APPENDIX 6

REPORTED DATA ON SUBJECTS DELETED FROM THE ORIGINAL
COMBINED ARMS LIST (ALPHA-NUMERIC DIGIT REFERS TO ORIGINAL LIST PARAGRAPH NUMBER)
FOR CA NON-MANEUVER OAC

<u>SUBJECTS</u>	<u>RECOMMENDED SUFFICIENCY LEVEL</u>	<u>AVERAGE TIME REQUIRED HR(S)</u>
21f Land Navigation	1	6.33
20c(3) PLL	1.33	8
20c(4) Preventive Maintenance Checks and Services	1.33	6
21g Use of Organic Radio Equipment	1.33	9.2
21j Training Management	1.33	15.33
21k How to Train	1.5	7.5
20a(1)(b) Land Load Planning	1.67	2
1c(1) Enemy AD	2	1.07
1d Underlying Fundamentals of Modern Combat	2	7.23
5c Meeting Engagement	2	2
6g C3 Options Once the Battle Begins	2	3
20a(1)(a) Air Load Planning	2	1.67
20b(4) Munition Identification	2	1.27
21c Geneva Convention	2	2.5
1a Mission and Role of USA	2.33	1.17
1c(6) Extended Battlefield	2.33	2.23
8f Covering Force	2.33	2.5
17d Integrated Intelligence Ops with Tactics	2.33	1.83
19 NATO Interoperability	2.33	3
20b(2) Ammo Safety, Storage and Transportation	2.33	1.33
20b(6) EOD Operations	2.33	1.33
21d Code of Conduct	2.33	.9
21e Process Captured Documents and Material	2.33	3
7a Disengagement	2.67	4.8
20a(1)(c) Sea Load Planning	2.67	.83
20d(2) Estimates	2.67	1
20f POL	2.67	2
21a Combat Vehicle Identification	2.67	1.33
12f Visual Aircraft Recognition	2.5	.5
1c(5) Protection of Sensors and Deep Attack Systems	3	1.13
11b Artillery Effects	3	1.5
15e ADM Operations	3	.5
20a(4) Aviation Logistics	3	.7
20g Subsistence	3	1.33
21b POW Processing	3	.73

ANNEX A

APPENDIX 7

REPORTED DATA ON SUBJECTS DELETED FROM THE ORIGINAL
COMBINED ARMS LIST (ALPHA-NUMERIC DIGIT REFERS TO ORIGINAL LIST PARAGRAPH NUMBER)
FOR COMBAT SUPPORT OAC

	<u>SUBJECTS</u>	<u>RECOMMENDED SUFFICIENCY LEVEL</u>	<u>AVERAGE TIME REQUIRED HR(S)</u>
21g	Use of Organic Radio Equipment	1	27.5
21j	Training Management	1	22.75
21k	How to Train	1	7
1a	Mission and Role of USA	1.25	2.5
21f	Land Navigation	1.25	9.25
1d	Underlying Fundamentals of Modern Combat	1.5	3.3
20c(3)	PLL	1.5	3.5
21d	Code of Conduct	1.5	1.25
1c(6)	Extended Battlefield	1.75	2.5
20c(4)	PMCS	1.75	2.5
21b	POW Processing	1.73	1.75
21c	Geneva Convention	1.75	1.25
21e	Process Captured Documents & Material	1.75	.63
20d(2)	Estimates	2	.75
6g	C3 Options Once the Battle Begins	2.25	1.5
8f	Covering Force	2.25	1.25
12f	Visual Aircraft Recognition	2.25	.75
17d	Integrated Intelligence Operations with Tactics	2.25	2.5
20b(2)	Ammo Safety, Storage and Transportation	2.25	1.25
20f	POL	2.25	.81
20g	Subsistence	2.25	1
21a	Combat Vehicle Identification	2.25	1.25
7a	Disengagement	2.33	.83
5c	Meeting Engagement	2.5	.63
11b	Artillery Effects	2.5	1.75
20a(1)(a)	Air Load Planning	2.5	.88
20a(1)(b)	Land Load Planning	2.5	.63
20b(5)	Ammo Emer Dest Procedures	2.5	1
1c(1)	Enemy AD	2.75	.88
1c(5)	Protection of Sensors and Deep Attack Systems	2.75	.88
15e	ADM Operations	2.75	1.75
19	NATO Interoperability	2.75	1.5
20a(1)(c)	Sea Load Planning	2.75	.75
20b(4)	Munition Identification	2.75	.5
20b(6)	EOD Operations	2.75	.75
20a(4)	Aviation Logistics	3	1

ANNEX A

APPENDIX 8

REPORTED DATA ON SUBJECTS DELETED FROM THE ORIGINAL
COMBINED ARMS LIST (ALPHA-NUMERIC DIGIT REFERS TO ORIGINAL LIST PARAGRAPH NUMBER)
FOR COMBAT SERVICE SUPPORT OAC

	<u>SUBJECTS</u>	<u>RECOMMENDED SUFFICIENCY LEVEL</u>	<u>AVERAGE TIME REQUIRED HR(S)</u>
21g	Use of Organic Radio Equipment	1	6.43
21j	Training Management	1	12.93
21k	How to Train	1	8.07
20c(4)	PMCS	1.14	8.29
21f	Land Navigation	1.29	6.71
20a(1)(b)	Land Load Planning	1.43	3.17
21d	Code of Conduct	1.43	1.43
20c(3)	PLL	1.57	3.86
1a	Mission and Role of USA	1.71	1.43
21a(1)(a)	Air Load Planning	1.71	3
20d(2)	Estimates	1.71	2.33
20g	Subsistence	1.71	3.29
21c	Geneva Convention	1.71	1.57
20a(1)(c)	Sea Load Planning	2	1.83
20b(2)	Ammo Safety, Storage & Transportation	2	2.14
1d	Underlying Fundamentals of Modern Combat	2.14	2.71
20f	POL	2.14	2.36
21b	POW Processing	2.14	1.29
12f	Visual Aircraft Recognition	2.29	1.75
21e	Process Captured Documents & Material	2.29	1.21
1c(6)	Extended Battlefield	2.57	1.58
5c	Meeting Engagement	2.57	1.05
6g	C3 Options Once the Battle Begins	2.57	1.5
21a	Combat Vehicle Identification	2.57	1.29
1c(1)	Enemy AD	2.71	1.08
7a	Disengagement	2.71	1.03
8f	Covering Force	2.71	1.58
11b	Artillery Effects	2.71	.86
17d	Integrated Intelligence Operations with Tactics	2.71	.87
20a(4)	Aviation Logistics	2.71	2.42
20b(4)	Munition Identification	2.71	1.29
19	NATO Interoperability	2.86	1.29
20b(6)	EOD Operations	3	.93
15e	ADM Operations	3.14	.67
20b(5)	Ammo Emer Dest Procedures	3.14	1
1c(5)	Protection of Sensors and Deep Attack Systems	3.29	.42

ANNEX B

COMBINED ARMS SUBJECT LIST

ANNEX B

COMBINED ARMS SUBJECTS LIST

1. DOCTRINAL BASICS	<u>SUBJECT PROPONENT</u>
A. Principles of War	CGSC
B. USA AirLand Battle Operational Concept	CGSC
C. Organization and Preparation for Combat	IN/AR
* D. USA Organization and Capabilities (BN, BDE, DIV, CORPS)	CGSC
E. Force Modernization Issues	CGSC
(1) New Equipment	
(2) New Organization	
F. Strategic Deployment	CGSC
2. COMMAND, CONTROL AND COMMUNICATION (C3)	
A. Staff Procedures in Combat	CGSC
B. Decision Making	CGSC
* C. Command Post Organization and Functions	CGSC
D. Plans, Orders, Estimates, Graphics, Records and Reports (to include 5 paragraph Field Order)	CGSC
E. Command and Control Communications (C3)	CGSC
F. Command, Control, and Communications Countermeasures (C3CM)	CACDA
G. Airspace Management	CGSC
3. INTELLIGENCE AND ELECTRONIC WARFARE (IEW)	
A. Tactical Intelligence	USAICS
B. Electronic Warfare	USAICS
(1) Electronic Warfare Support Measures (ESM)	
(2) Electronic Countermeasures (ECM)	
C. Intelligence Preparation of the Battlefield	USAICS
D. Tactical All-Source Intelligence Production	USAICS
(1) Signals Intelligence	
(2) Imagery Intelligence	
(3) Human Intelligence	
(4) Tactical Counterintelligence	
4. AIR DEFENSE	
A. Short Range Air Defense Systems (SHORAD)	AD
B. Manportable Air Defense Systems	AD
C. Non-Divisional Air Defense Systems	AD
D. Unit Active Air Defense Measures	AD
E. Unit Passive Air Defense Measures	AD
F. Air Defense Priority Support in the AirLand Battle	AD
G. Air Defense Land Space Requirements in MBA and CFA and During Offense	AD

5. CLOSE COMBAT

A. Tactical Basics

- (1) Battlefield Movement (Maneuver, Marches, etc) IN/AR
- (2) OPSEC (including SIGSEC and ECCM) CGSC/USAICS/SC
- (3) Passage of Lines IN/AR
- (4) Operations during Obscured Battlefield Conditions IN/AR/FA/CM
(to include Night and Smoke Operations)
- (5) Patrolling IN
- (6) Terrain Analysis USAICS
 - (A) Planning Considerations
 - (B) Terrain Appreciation

B. Threat

- (1) Missions and roles of Threat Armed Forces CACDA
- (2) Organization and Equipment CACDA
- (3) Offensive Operations CACDA
- (4) Defensive Operations CACDA
- (5) Combat Support CACDA
- (6) Special Operations CACDA

C. Offensive Operations

- (1) Doctrine and Fundamentals IN/AR
 - (A) Area of Influence
 - (B) Area of Interest
- (2) Movement to Contact IN/AR
- (3) Hasty Attack IN/AR
- (4) Deliberate Attack IN/AR
- (5) Exploitation IN/AR
- (6) Pursuit IN/AR
- (7) Approach of Encircled Forces IN/AR
- (8) Reconnaissance in Force IN/AR
- (9) Military Operations in Urban Terrain (MOUT) IN

D. Defensive Operations

- (1) Doctrine and Fundamentals IN/AR
 - (A) Covering Force Area
 - (B) Main Battle Area
 - (C) Rear Area
 - (D) Area of Influence and Interest
- (2) Defense in Sector IN/AR
- (3) Defense from Battle Positions IN/AR
 - (A) Linear
 - (B) Perimeter
- (4) Defense In-Depth IN/AR
- (5) Strong Points IN/AR
- (6) Counterattack IN/AR
- (7) Breakout and Link-up IN/AR
- (8) Employment of Reserves IN/AR
- (9) Military Operations in Urban Terrain (MOUT) IN

E. Retrograde Operations

- (1) Delay IN/AR
- (2) Withdrawal
- (3) Retirement

F. Reconnaissance and Security Operations	AR
(1) Doctrine and Fundamentals	AR
(2) Reconnaissance	AR
(3) Security	AR
(4) Economy of Force	AR
(5) Cavalry Operations (Ground)	AR

6. FIRE SUPPORT

A. Indirect Fire Support	
(1) Request and Adjust Indirect Fire	FA
(2) Field Artillery Organization, Command and Control	FA
(3) Field Artillery Priority Support in the AirLand Battle	FA
(4) Field Artillery Land Space Requirements in the MBA and CFA and During Offensive	FA
*(5) Target Value Analysis Procedures	FA
B. Close Air Support (CAS and BAI)	CGSC
C. Suppression of Enemy Air Defenses (SEAD)	CGSC
** D. Nuclear and Chemical Weapons Employment	FA/CM/CGSC
(1) US National Policy	
(2) US/NATO Employment Doctrine	
(3) Threat NBC Policy	
(4) NBC Weapons Effects on Personnel, Equipment and Mission	
(5) Sustained Operations in NBC Environment	
(6) Individual and Unit Protective Measures	
(7) Self and Unit Member Aid	
(8) Fallout Prediction and Radiological Monitoring	
(9) Mass Casualty Treatment	
(10) NBC Detection, Warning and Reporting	
(11) Equipment Decontamination, Maintenance and Cannibalization	
(12) Psychological Preparation for NBC Battlefield Stress	
(13) Utilization of Unit NBC Personnel	
(14) OPSEC in NBC Environment	
(15) Electro-Magnetic Pulse (EMP) Effects	
(16) Personnel Replacement Procedures	
(17) Reconstitution of Units	
(18) Mobility Restrictions in NBC Environment	
(19) Smoke Operations	
(20) Plan and Conduct Individual and Collective Training	
(21) Integrate and Exploit Friendly Nuclear and Retaliatory Chemical Fires (Offense and Defense)	
(22) Nuclear and Chemical Weapons Effects and Vulnerability Analysis Techniques	
(23) Train in Obscured Environment	
(24) Mission Oriented Protective Posture (MOPP)	

7. ENGINEER OPERATIONS (COMBAT SUPPORT)

- A. Mobility EN
- B. Countermobility EN
- C. Survivability EN
- D. General Engineering EN
- * E. Mine Warfare EN
- * F. Area Damage Control EN

8. ARMY AVIATION

- A. Combat Aviation AV
- * B. Air Cavalry AV
- C. Combat Support Aviation AV
- D. Combat Service Support Aviation AV

*9. COMBAT SERVICE SUPPORT

- A. Division Support Command (DISCOM) LOGCEN
- B. Corps Support Command (COSCOM) LOGCEN
- C. Combat Service Support Operations
 - (1) Organization for Combat LOGCEN
 - (2) Logistics Operations QM
 - (A) Supply Classification (Supply) QM/MM
 - (B) Resupply and Basic Load Considerations QM/MM
 - (Ammunition Support Structure and Requisitioning, Ammunition Supply Rates and DAO functions)
 - (3) Transportation Operations TC
 - (Convoy Operations, Movement Control)
 - (4) Field Services Operations QM
 - (5) Maintenance Operations OD
 - (Recovery and Evacuation, Command and Staff Management of Preventive Maintenance, The Army Maintenance Management System (TAMMS))
 - (6) Personnel and Administration Operations SSC
 - (Accountability, Casualty Reporting, Replacements)
 - (7) Medical Services AHS
 - (First Aid, Medical Evacuation)
- D. Combat Service Support Planning/DISCOM Force Development LOGCEN
 - (1) Supporting the AirLand Battle
 - (A) Organization for Offensive and Defensive Operations
 - (B) Out of Sector Support
 - (2) Support of MOUT Operations
- E. Mission and Role of Forward Support Battalion (FSB) LOGCEN
 - in Support of Brigade Operations
- F. Reconstitution of Ineffective Units LOGCEN

10. SPECIAL AND OTHER OPERATIONS

- A. Low Intensity Conflict Operations
 - (1) Counterinsurgency Operations IN

(2) Counterterror Operations	CGSC
(3) Foreign Internal Defense	IMA
* (4) Internal Defense and Development	IMA
B. Special Forces Operations	IMA
C. Unconventional Warfare Operations	IMA
D. Psychological Operations	IMA
E. Civil Affairs Operations	IMA
F. Amphibious Operations	IN
G. Airborne Operations	IN
H. Airmobile Operations	IN/AV
I. Ranger Operations	IN
J. Operations in Special Terrain	
(1) Desert	IN/AR
(2) Jungle	IN
(3) Mountain	IN
(4) Northern Regions (Cold Weather)	IN
(5) Military Operations in Urban Terrain (MOUT)	IN
K. River Crossing Operations	IN/AR/EN
L. Tactical Deception Operations	CGSC
* M. Rear Area Protection	CGSC/MP
(1) Doctrine and Fundamentals	
(2) Rear Area Combat Operations for Level I, II, and III Threat	
(A) Organization for Combat	
(B) Perimeter Defense	
(C) Active and Passive Security	
(D) Weapons Employment	
(E) Physical Layout of Rear Area	
(3) Movement Control	
(4) Area Damage Control	
(5) Fire Support	
11. LEADERSHIP	CGSC
*12. MILITARY POLICE OPERATIONS	MP
(A) Combat Role	
(B) Movement Control	
(C) Security	

NOTES:

* New subjects not included in the CASS update survey. Therefore no sufficiency data is available, however, further updates will include them.

** Subjects listed under Nuclear and Chemical Weapons Employment have been extracted from the task list in the Nuclear and Chemical Action Plan (NUCAP). Since the CASS update survey did not include these tasks, no sufficiency data was collected on them, however, future updates will include these NUCAP tasks. At Appendix 1 through 4 of Annex H are the compilation of data actually collected on nuclear and chemical subjects from the initial CASS list. This information is provided for use in developing individual nuclear and chemical portions of school's Combined Arms training programs.

***ANNEX C**

**RECOMMENDED SUFFICIENCY LEVELS FOR SUBJECTS
ADDED TO THE COMBINED ARMS SUBJECT LIST**

***These subjects have been added to the Combined Arms Subject List to reflect AirLand Battle Doctrine (see paragraph 10 of text).**

ANNEX C

SUBJECTS ADDED TO THE COMBINED ARMS SUBJECT LIST

CAC RECOMMENDED MINIMUM SUFFICIENCY LEVEL

<u>SUBJECT</u>		<u>OBC</u>	<u>OAC</u>
1d	USA Organization and Capabilities (Bn, Bde, Div, Corps)	2	2
2c	Command Post Function and Organization	3	2
5a(6)	Terrain Analysis	2	2
5d(8)	Employment of Reserves	3	3
6a(5)	Target Value Analysis Procedures	4	3
6d	Nuclear and Chemical Weapons Employment (NUCAP)	3	3
7e	Mine Warfare	3	3
7f	Area Damage Control	4	3
8b	Air Cavalry	3	3
9a	Division Support Command (DISCOM)	3	3
9b	Corps Support Command (COSCOM)	3	3
9c(1)	CSS Organization for Combat	3	3
9d	Combat Service Support Planning/ DISCOM Force Development	3	3
9e	Mission and Role of Forward Support Battalion (FSB) in Support of Brigade Operations	3	3
10a(4)	Internal Defense and Development	3	3
10m	Rear Area Protection	3	3
12	Military Police Operations	3	3

ANNEX D

CONSOLIDATED CASS SURVEY DATA FOR COMBAT ARMS
(MANEUVER AND NON-MANEUVER) SCHOOLS

LEGEND

- 1) SL - Sufficiency Level
 - a) SL 1 - Fully Proficient
 - b) SL 2 - Working Knowledge
 - c) SL 3 - Familiarity
 - d) SL 4 - No Training Required
- 2) HR(S) - Hours Required to Attain Sufficiency Level
- 3) HR(P) - Hours Entirely Devoted to the Subject
- 4) HR(I) - Hours Subject is Integrated Into Other Subject Areas

COMBINED ARMS SUFFICIENCY STUDY UPDATE

COMBAT ARMS SERVICE SCHOOLS

SUBJECT	Proponent	Proponent Sufficiency Level/Hours Required		CA-Maneuver			CAM Mean	CA Non Maneuver		CAM MEAN	Combat Arms Mean		
		LT	SL	IN	AR	FA		AD	EN				
1. Doctrinal Basics													
A. Principles of War	CGSC	LT	SL	1	LT	SL	3	2	2	2	2.3	2.5	
			HR(S)	2		HR(S)	1	2	2	1	1.2	1.8	
						HR(P)	0	1	0	0	0	0.2	
						HR(I)	0	1	0	1	0		
		CPT	SL	1	CPT	SL	1	1	3	2	2	1.8	
			HR(S)	2		HR(S)	4	1	1	3	1	1.5	1.8
B. USA AirLand Battle Operational Concept	CGSC					HR(P)	2	1	0	1	1.2	1.1	
						HR(I)	2	0	0.5	2	0.25		
		LT	SL	1	LT	SL	3	2	2	2	2.3	2.3	
			HR(S)	8		HR(S)	1	2	5	7	3.9	3.3	
						HR(P)	0	1	0	4	0	3	1.7
						HR(I)	0	2.5	0	26.2	2	2.5	
C. Organization/Preparation For Combat	IN/AR	CPT	SL	1	CPT	SL	1	1	2	1	2	1.7	
			HR(S)	8		HR(S)	7	2	2	21	4	9.5	6.6
						HR(P)	2.5	1	0	2	0	2.7	1.9
						HR(I)	3	0	0.5	15	3.5		
		LT	SL	2/2	LT	SL	2	2	2	2	2.3	2.2	
			HR(S)	4/24		HR(S)	4	24	8	8	3.7	7.8	
C. Organization/Preparation For Combat	IN/AR					HR(P)	0	8	12	5	5.8		
						HR(I)	bbb	22	3	2	0.25		
		CPT	SL	1/1	CPT	SL	1	1	2	1	1.3	1.3	
			HR(S)	12/30		HR(S)	12	30	66	40	25.3	30.7	
						HR(P)	6	2	1	0	5.5	4.3	
						HR(I)	6	4.5	0	40	0.5		

SUBJECT	Proponent	Proponent Sufficiency Level/Hours Required		CA-Maneuver			AVA	CAM Mean	CA Non Maneuver			EN	CANH MEAN	Combat Arms Mean
		LT	SL	HR(S)	LT	SL			HR(S)	IN	AR			
D. Force Modernization	CGSC	LT	SL	2	4	3	3	3.3	4	3	3	3	3.3	3.3
			HR(S)	4	4	4	4	2.7	0	2	3	1.7	2.2	
			HR(P)	0	4	4	0	1.3	0	0	0	0	0.7	
			HR(I)	0	0	0	0		0.2	0	0	0		
		CPT	SL	1	4	3	3	3.3	3	3	2	2.7	3	
			HR(S)	4	3	4	4	2.3	1	5	4	3.3	2.8	
			HR(P)	0	3	0	0	1	0	1	0	0.3	0.7	
			HR(I)	0	0.2	0	.5		1	4	0	0		
E. Strategic Deployment	CGSC	LT	SL	2	4	4	3	3.7	4	4	3	3.7	3.7	
			HR(S)	17	0	0	1	0.3	0	0	1	0.3	0.3	
			HR(P)	0	0	0	0	0	0	0	0	0	0	
			HR(I)	0	0	0	0		0	0	0	0		
		CPT	SL	1	3	2	3	2.7	3	3	3	3	2.8	
			HR(S)	60	1	1	1	1	0.5	3	3	1	1.5	1.3
			HR(P)	0	0	0	0	0	0	0	0	0	0	0
			HR(I)	0	0	0	0		0	0	0	0		
2. Command, Control and Communications (C3)														
A. Staff Procedures in Combat	CGSC	LT	SL	2	3	3	2	2.7	3	2	2	2.3	2.5	
			HR(S)	10	3	8	5	5.3	1.5	4	4	2	3.9	
			HR(P)	0	3	0	0	1.7	0	2	0	0.7	1.2	
			HR(I)	0	5	1.5	2	2	2	0	0	2	2	
		CPT	SL	1	2	2	2	2	2	2	2	2	2	
			HR(S)	15	14	6	7	9	59	2	2	6	22.3	15.7
			HR(P)	0	11	4	12	9	9.5	0	0	2	3.8	6.4
			HR(I)	2	3.2	3	21.5		0	0	3			
B. Decisionmaking	CGSC	LT	SL	2	2	2	3	2.3	3	2	2	2.3	2.3	
			HR(S)	12	6	4	4	4.7	1.5	4	4	2	2.5	3.6
			HR(P)	0	0.5	0	0	1.5	1	0	0	0.3	0.9	
			HR(I)	0	8	1			1	0	0			
		CPT	SL	1	1	1	3	1.7	1	1	2	1.3	1.5	
			HR(S)	8	12	3	2	5.7	59	12	2	24.3	15	
			HR(P)	5	3	0	0	2.7	6.5	2	0	2.8	2.8	
			HR(I)	10	3.9	1	30.5		10	0				

2. Command, Control and Communications (C3)

A. Staff Procedures in Combat

CGSC

LT SL

HR(S)

2 10

3 3

2 2

2 2

2 2

B. Decisionmaking

CGSC

LT SL

HR(S)

2 12

2 2

2 2

2 2

2 2

SUBJECT	Proponent	Proponent Sufficiency Level/ Hours Required	CA-Maneuver			CA Non Maneuver	CANH		Combat Arms Mean
			IN	AR	AVA	FA	AD	EN	MEAN
C. Plans, Orders, Estimates, Graphics Records, Reports									
CGSC	LT	SL	2	2	2	2	2	2	2
		HR(S)	10	20	10	1.5	5	10	5.5
		HR(P)	3	5	0	2	3	16	7
	CPT	SL	1	1	2	2	1	2	1.7
		HR(S)	26	16	4	59	53	10	40.7
		HR(P)	10	16.7	2	3.6	18	3.5	8.3
	CPT	HR(I)	16	23.9	0	28.5	35	4	26
		SL	1	1	2	2	1	2	1.5
		HR(S)	12	16	4	59	53	10	40.7
		HR(P)	10	16.7	2	3.6	18	3.5	8.3
D. Command, Control, and Communications									
CGSC	LT	SL	2	2	3	1	2	3	2
		HR(S)	10	4	3	2	6	4	4
		HR(P)	0	5	0	1	0	1	0.7
	CPT	SL	2	2	3	1	2	3	2
		HR(S)	12	10	1	59	5	6	23.3
		HR(P)	3	4	2	10.5	0	3	4.5
	CPT	HR(I)	8	2	0	40.5	5	0	3.8
		SL	1	1	2	2	1	2	2.2
		HR(S)	12	10	1	59	5	6	23.3
		HR(P)	3	4	2	10.5	0	3	4.5
E. Command, Control, Communications Countermeasures (C3QM)									
CGSC	LT	SL	4	4	1	2	3	3	2.7
		HR(S)	0	0	20	10	2	3	5
		HR(P)	0	0	11	0	0	0	0
	CPT	SL	4	4	2	2	2	2	2
		HR(S)	0	0	10	10	4	4	6
		HR(P)	0	0	0	0	0	0	0
	CPT	HR(I)	0	0	18	0	0	0	0
		SL	1	1	2	2	1	2	2.7
		HR(S)	40	4	2	3.3	4	4	4.7
		HR(P)	40	4	2	3.3	4	4	4.7
F. Airspace Management									
CGSC	LT	SL	4	4	3	1	3	4	2.7
		HR(S)	4	0	4	0.1	11	0	3.7
		HR(P)	0.2	0	0	0.5	2.5	0	1
	CPT	SL	3	2	3	1	2	4	2.3
		HR(S)	4	2	1	4.2	14	0	6.1
		HR(P)	1	0.2	0	0	4	0	1.3
	CPT	HR(I)	0.3	0.5	0	1.7	10	0	0.9
		SL	2	2	3	2.7	2	4	2.5
		HR(S)	4	4	1	1.3	14	0	3.7
		HR(P)	4	4	0	0.4	10	0	0.9

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SUBJECT	Proponent	Proponent Sufficiency Level/ Hours Required	CA-Maneuver	CAM Mean	CA Non Maneuver	CANN MEAN	Combat Arms Mean
			IN AR AVA		FA AD EN		
3. Intelligence and Electronic Warfare							
A. Tactical Intelligence							
MI	LT SL 3	LT SL 3	2 2	2	3	2.7	2.3
	HR(S) 5	HR(S) 5	6 2	2	1.7	1.6	2.5
			0 2	0	4.5	1 2	1.3
			0 1	1.5	1	0	
	CPT SL 2	CPT SL 2	2 2	2	1	2	2
	HR(S) 8	HR(S) 20	2 2	8	17	1 8	8
		HR(P) 0	9.5	0	13.3	0.5	3.9
		HR(I) 19	1	0.5	6.2	0	
B. Electronic Warfare							
(1) Electronic Warfare Support Measures (ESM)							
MI	LT SL 3	LT SL 3	2 2	3	2	2.7	2.7
	HR(S) 2	HR(S) 1	1 1	1	0.9	0.9	1
		HR(P) 1	1	0.5	0	0	0.4
		HR(I) 1	0	0.3	0	0	
	CPT SL 2	CPT SL 3	1 1	3	2	2.3	2.3
	HR(S) 5	HR(S) 1	2 2	1	0.4	2.8	2.1
		HR(P) 2	0.24	0	1	2.7	1.7
		HR(I) 2	0	2	0	0	
(2) Electronic Countermeasures (ECM)							
MI	LT SL 3	LT SL 3	2 2	3	2	2.3	2.3
	HR(S) 3	HR(S) 1	5 1	1	0.9	1	1.7
		HR(P) 1	5	0.5	0	0	1.1
		HR(I) 1	0	0.3	0.2	0	
	CPT SL 2	CPT SL 2	1 1	3	2	2.3	2.2
	HR(S) 5	HR(S) 1	2 2	0	2.9	2	1.5
		HR(P) 1	0.24	0	0.4	1.1	0.8
		HR(I) 1	0	2	2.3	0	
C. Intelligence Preparation Of The Battlefield (IPB)							
MI	LT SL 3	LT SL 3	2 3	3	3	2.7	2.8
	HR(S) 1	HR(S) 1	0.5 1	1	1	1.3	1.1
		HR(P) 0	0.5	0.3	0	0	0.1
		HR(I) 0	0	0	0.3	0.5	
	CPT SL 2	CPT SL 2	2 2	3	3	2.7	2.5
	HR(S) 8	HR(S) 8	1 1	2	3	4.3	4
		HR(P) 0	0.5	0	1	1	0.6
		HR(I) 4.2	0	0	0	0	

SUBJECT	Proponent	Proponent Sufficiency Level/ Hours Required		CA-Maneuver			CAM		CA Non Maneuver		CAM		Combat	
		LT	SL	LT	SL	HR(S)	IN	AR	AVA	Mean	FA	AD	EN	Mean
D. Tactical All-Source Intelligence Production	MI	LT	SL	4	LT	SL	3	3	3	3	4	4	3	3.3
			HR(S)	0		HR(S)	1	0	1	0.7	0	0	1	0.3
						HR(P)	0	0	0.2	0.1	0	0	0	0
						HR(I)	0	0	0	0	0	0	0.25	
		CPT	SL	4	CPT	SL	2	2	3	2.3	3	2	3	2.7
			HR(S)	0		HR(S)	6	1	2	3	3	6	2	3.7
						HR(P)	0	0	0	0	0.2	0	0	0.1
						HR(I)	4	0	0	0	0	2.25	0	0
(1) Signals Intelligence (SIGINT)	MI	LT	SL	3	LT	SL	4	4	3	3.7	3	3	3	3.3
			HR(S)	2		HR(S)	0	0	1	0.5	2	1	1	1.3
						HR(P)	1	0	0	0	0	0	0	0.2
						HR(I)	bbb	0	0	0	0	0	0	
		CPT	SL	3	CPT	SL	3	2	3	2.7	3	2	3	2.7
			HR(S)	2		HR(S)	1	1	1	1	2	7	1	3.3
						HR(P)	0	0.13	0	0	6	2	0.25	2.8
						HR(I)	0.5	0	1	0	0	0	0	1.4
(2) Imagery Intelligence (IMINT)	MI	LT	SL	4	LT	SL	3	3	3	3	3	3	3	3
			HR(S)	0		HR(S)	1	0.5	1	0.8	0.5	1	1	0.8
						HR(P)	0	0	0	0	0.1	0	0	0
						HR(I)	0	0	0	0	0	0	0	
		CPT	SL	3	CPT	SL	3	3	3	3	3	3	3	3
			HR(S)	1		HR(S)	1	1	1	1	1	1	1	1
						HR(P)	0	0.13	0	0	6	1	0.25	2.4
						HR(I)	1	0	0	0	0	0	0	1.2
(3) Human Intelligence (HUMINT)	MI	LT	SL	3	LT	SL	2	3	3	2.7	3	3	3	2.8
			HR(S)	1		HR(S)	1	0.5	1	0.8	0.5	2	1	1.2
						HR(P)	0	0	0	0	0	0	1	0.3
						HR(I)	0.5	0	0	0	0.2	0	0	0.2
		CPT	SL	3	CPT	SL	2	3	3	2.7	3	2	3	2.7
			HR(S)	1		HR(S)	1	1	1	1	2	1	1	1.3
						HR(P)	0	0.13	0	0	0.3	0.5	0.25	0.4
						HR(I)	1	0	1	0	0.4	0	0	0.2

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(4) Counterintelligence (CI) MI	Proponent		Proponent Sufficiency Level/Hours Required		CA-Maneuver			CA Non Maneuver			CAM Mean	CAMH		Combat Arms Mean				
	LT	SL	HR(S)	1	LT	SL	HR(S)	IN	AR	AVA		FA	AD		EN	MEAN		
A. Air Defense	CPT	SL	HR(S)	1	CPT	SL	HR(S)	3	2	3	3	3	3	3				
								HR(P)	1	1	1	1	1	1	1	1	1	1
								HR(I)	0	1	0	0	0	0	0	0	0	0
A. Short Range AD Systems (SHORAD)	CPT	SL	HR(S)	1	CPT	SL	HR(S)	3	3	3	3	3	3	3				
								HR(P)	1	1	1	1	1	1	1	1	1	1
								HR(I)	0	0.13	0	0	0	0.2	0	0	0	0.1
B. Manportable AD Systems	CPT	SL	HR(S)	4	CPT	SL	HR(S)	2	2	3	3	3	3	3				
								HR(P)	2	1	1	1	1	1	1	1	1	1
								HR(I)	0	0	0	0	0	0	0	0	0	0
C. Non-Divisional AD Systems	CPT	SL	HR(S)	1	CPT	SL	HR(S)	2	2	3	3	3	3	3				
								HR(P)	1	1	1	1	1	1	1	1	1	1
								HR(I)	0	0	0	0	0	0	0	0	0	0

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SUBJECT	Proponent		Proponent Sufficiency Level/Hours Required		CA-Maneuver			CAM Mean		CA Non Maneuver		CAMH MEAN		Combat Arms Mean
	AD	LT SL	SL	HR(S)	LT	SL	HR(S)	IM	AR	AVA	FA	AD	EN	
D. Unit Active AD Measures	AD	LT	SL	2	2	2	2	2	2	3	3	1	2	2.3b
		HR(S)	2	2	2	2	2	2	2	3	3	2	2	2.3b
		HR(S)	2	2	2	2	2	2	2	3	3	1	1	1.5
		HR(I)	2	2	2	2	2	2	2	3	3	0	0	0.5
E. Unit Passive AD Measures	AD	CPT	SL	1	1	1	1	1	1	2	2	1	2	2
		HR(S)	2	2	2	2	2	2	2	3	3	2	2	2
		HR(S)	2	2	2	2	2	2	2	3	3	1	1	1.2
		HR(I)	2	2	2	2	2	2	2	3	3	0	0	0.3
F. AD Priority Support In AirLand Battle	AD	LT	SL	2	2	2	2	2	2	3	3	1	2	2.3b
		HR(S)	2	2	2	2	2	2	2	3	3	2	2	2.3b
		HR(S)	2	2	2	2	2	2	2	3	3	1	1	1.3
		HR(I)	2	2	2	2	2	2	2	3	3	0	0	0.1
G. AD Land Space Requirements In MBA and CFA	AD	LT	SL	2	2	2	2	2	2	3	3	1	2	2
		HR(S)	2	2	2	2	2	2	2	3	3	2	2	2
		HR(S)	2	2	2	2	2	2	2	3	3	1	1	1.5
		HR(I)	2	2	2	2	2	2	2	3	3	0	0	0.1

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Proponent		Sufficiency Level/ Hours Required		CA-Maneuver		CA Mon Maneuver		CAM Mean		CAM MEAN		Combat Arms Mean		
		IN	AR	IN	AR	FA	AD	IN	AD	FA	AD			
5. Close Combat														
A. Tactical Basics														
(1) Battlefield Movement														
(2) Operations Security	COSC	IM/AR	LT	SL	1/2	LT	SL	1	2	2	2	2	2	
			HR(S)	40/8	HR(S)	10	8	12	10	6	4.1	2	2	
			HR(P)	0	10	0	10	0	3.3	5.5	0	1.8	7.1	
			HR(I)	12	12	12	12	0.5	2	3.5	0	2.6	2	
			CPT	SL	1/1	CPT	SL	1	1	2	14	2	2	2
			HR(S)	20/10	HR(S)	15	10	12	1.3	1	14	1	1	1
			HR(P)	5	8	0	4.3	2	2	2	2	2	2	2
			HR(I)	9	4.8	0	22.3	2	2	2	2	2	2	2
			LT	SL	1	LT	SL	2	2	2	2	2	2	2
			HR(S)	4	HR(S)	3	4	2	2	2	2	2	2	2
(3) Signal Security (SIGSEC)	MI/SC	IM/AR	CPT	SL	1	CPT	SL	1	2	2	2	2	2	
			HR(S)	4	HR(S)	2	2	2	2	2	2	2	2	
			HR(P)	0	3	0	1.5	0.9	0	1	1.3	2.2	2.2	
			HR(I)	0	1	2	1.5	0.5	0	1	0.5	0.8	0.8	
			LT	SL	2	LT	SL	2	2	2	2	2	2	
			HR(S)	6	HR(S)	8	6	2	1.7	3	2.3	2	2	
			HR(P)	0	0	2	5.3	2	2	1	2.3	3.8	3.8	
			HR(I)	0.5	0.5	0	0	1.2	0	0	0.4	0.2	0.2	
			CPT	SL	2	CPT	SL	2	2	2	2	2	2	2
			HR(S)	5	HR(S)	6	6	2	2	2	2	2	2	
(4) Passage of Lines	IM/AR	IM/AR	LT	SL	2/2	LT	SL	1	2	2	2	2	2	
			HR(S)	2/8	HR(S)	6	6	2	4.7	3	2.3	2.2	2.2	
			HR(P)	2	HR(P)	2	6	0.5	2.8	2	2.3	3.5	3.5	
			HR(I)	7	HR(I)	2	0	1	1.3	0	0.3	1.6	1.6	
			CPT	SL	2/1	CPT	SL	1	1	3	3	2	1.8	1.8
			HR(S)	2/8	HR(S)	4	8	3	3.3	4	3.1	3.2	3.2	
			HR(P)	1	HR(P)	2	2	0	0.9	0	1.6	1.5	1.5	
			HR(I)	3	HR(I)	2	0	1	1	0	0	0	0	
			LT	SL	2/2	LT	SL	2	2	3	3	3	2.7	2.7
			HR(S)	2/8	HR(S)	2	8	1	3.7	1	1	1	2.3	2.3
(5) Signal Security (SIGSEC)	MI/SC	IM/AR	CPT	SL	2/1	CPT	SL	1	2	2	2	2	2	
			HR(S)	2/8	HR(S)	4	8	3	4.3	4	2.2	1.8	1.8	
			HR(P)	1	HR(P)	2	2	0	0.6	0	3.3	3.3	3.3	
			HR(I)	3	HR(I)	3	3.5	0.5	8.6	0	0.2	0.6	0.6	
			LT	SL	2/2	LT	SL	2	2	3	3	3	2.7	2.7
			HR(S)	2/8	HR(S)	2	8	1	3.7	1	1	1	2.3	2.3
			HR(P)	1	HR(P)	2	2	0	0.6	0	3.3	3.3	3.3	
			HR(I)	3	HR(I)	3	3.5	0.5	8.6	0	0.2	0.6	0.6	
			CPT	SL	2/1	CPT	SL	1	2	2	3	3	2.7	2.7
			HR(S)	2/8	HR(S)	4	8	3	4.3	4	2.2	1.8	1.8	

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SUBJECT	Proponent	Proponent Sufficiency Level/ Hours Required		CA-Maneuver			CAMH Mean	CA Non Maneuver		CAMH MEAN	Combat Arms Mean		
		LT	SL	2/2 HR(S)	LT	SL	IN	AR	AVA	FA	AD	EN	
(5) Operations During Limited Visibility and Night Operations	IN/AR	LT	SL	2/2 HR(S)	LT	SL	2	2	3	2	2	2	2.2
						HR(S)	80	24	1	0.5	2	24	21.9
						HR(P)	0	21	16	0.5	0	0	6.3
						HR(I)	bbb	3	6	1	0.5	0	
		CPT	SL	1/1 HR(S)	CPT	SL	1	1	3	2	2	2	1.8
						HR(S)	20	8	2	0.4	5	6	6.9
						HR(P)	8	1	0	1	1	0	1.8
						HR(I)	6	1.5	0.5	1.7	4	0	
(6) Smoke Operations	FA/CM	LT	SL	2	LT	SL	3	3	3	1	2	2	2.5 ^b
						HR(S)	1	1	1	1.5	1	1	1.1
						HR(P)	0.5	0	1.5	0	0	0	0.3
						HR(I)	0	1	0.5	6.5	0	0	
		CPT	SL	2	CPT	SL	1	2	2	2	2	2	1.8
						HR(S)	4	2	2	1	1	2	1.2
						HR(P)	2.8	0	0	1.7	0	1	0.9
						HR(I)	6	0.7	0	3.5	2	1.5	
(7) Patrolling	IN	LT	SL	1	LT	SL	1	3	4	3	2	3	2.7
						HR(S)	75	3	0	0.2	2	8	14.7
						HR(P)	15	3	0	0.2	0	2	3.4
						HR(I)	bbb	0	0.2	0.5	0	0	
		CPT	SL	1	CPT	SL	1	2	4	2	3	3	2.5
						HR(S)	6	2	0	0.1	2	2	2
						HR(P)	2	0	0	0	0	0	0.3
						HR(I)	4	0	0	0	2	0	
B. Threat	(1) Mission and Role of Threat Armed Forces	LT	SL	2	LT	SL	3	2	3	1	2	3	2.3
						HR(S)	1	1	1	8	4	1	2.7
						HR(P)	1	1	1	1	1.25	0.5	1
						HR(I)	ddd	0	0	0.5	2	0	
		CPT	SL	1	CPT	SL	3	1	3	1	2	3	2.2
						HR(S)	2	1	2	16	5	2	4.7
						HR(P)	2	0.3	0	0.3	0	0.5	0.5
						HR(I)	0	0	0.5	1	5	0	

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SUBJECT	Proponent	CACDA	Proponent Sufficiency Level/Hours Required		CA-Maneuver			CAMH Mean		CA Non Maneuver			CAMH MEAN		Combat Arms Mean
			LT	SL	1	LT	SL	3	2	3	2	3	2	3	
(2) Organization/Equipment	CACDA	CACDA	LT	SL	2	HR(S)	1	4	6	3	2	3	2	4	2.3
			HR(S)	1	2	HR(P)	1	0.5	3.2	3	2	3	2	4	4
			HR(P)	1	2	HR(I)	ddd	3.5	3	3	2	3	2	4	2.3
			HR(I)	ddd	3.5	3	2	3	3	3	2	3	2	4	2.3
(3) Offensive Operations	CACDA	CACDA	CPT	SL	1	CPT	SL	3	1	3	2	3	2	4	2.2
			HR(S)	3	3	HR(S)	5	4	2	2	9	2	9	4	6.3
			HR(P)	4	4	HR(P)	4	4	0	0	4	2	3	4	3
			HR(I)	1	4.3	HR(I)	1	4.3	0.5	0.5	5	0.25	0.25	0.25	3
(4) Defensive Operations	CACDA	CACDA	LT	SL	1	LT	SL	2	2	2	2	2	2	4	1.8
			HR(S)	2	2	HR(S)	0.5	2	2	2	4	2	4	4	2.8
			HR(P)	1	1	HR(P)	1	1	1.5	1.2	0.5	1	0.9	1	1.1
			HR(I)	ddd	1	HR(I)	ddd	1	6.2	1.3	2	2	1.7	2	3
(5) Combat Support	CACDA	CACDA	CPT	SL	1	CPT	SL	1	1	2	2	2	2	8	1.5
			HR(S)	4	4	HR(S)	10	2	5	5	6	2	8	6	6.8
			HR(P)	10	3	HR(P)	10	3	0	4.3	2	2	1.7	2	1.9
			HR(I)	0	1.6	HR(I)	0	1.6	0.5	0.5	7	5	0	0	1.5
(6) Special Operations	CACDA	CACDA	LT	SL	2	LT	SL	2	2	2	2	2	2	4	1.8
			HR(S)	0.5	0.5	HR(S)	0.5	2	2	2	4	2	4	4	2.8
			HR(P)	1	1	HR(P)	1	1	0.5	0.8	5.5	0.5	2.3	1	1.6
			HR(I)	ddd	1	HR(I)	ddd	1	6	1.3	2	2	1.7	2	1.5
(7) Special Operations	CACDA	CACDA	CPT	SL	1	CPT	SL	1	1	2	2	2	2	8	1.5
			HR(S)	1	1	HR(S)	5	2	5	4	6	2	8	6	6
			HR(P)	1	1	HR(P)	5.5	2	0	2.5	1	1	1.3	1	1.9
			HR(I)	0	4.7	HR(I)	0	4.7	0.5	0.5	2.5	5	0	0	1.5
(8) Special Operations	CACDA	CACDA	LT	SL	2	LT	SL	3	2	3	2	3	2	4	2.3
			HR(S)	1	1	HR(S)	1	10	2	2	3.7	2	3.7	4	4
			HR(P)	2	2	HR(P)	2	0	6	2.7	1.5	0	0.5	1.6	1.6
			HR(I)	1	0	HR(I)	1	0	1	2.3	1	0	0	2.2	2.1
(9) Special Operations	CACDA	CACDA	CPT	SL	1	CPT	SL	3	1	3	2	3	2	8.7	2.3
			HR(S)	2	2	HR(S)	8	24	1	11	8	2	8.7	9.8	9.8
			HR(P)	4	4	HR(P)	4	1.8	0	1.9	16	6	2.2	2.1	2.1
			HR(I)	4	0.3	HR(I)	4	0.3	0.5	0.5	1	2	0	0	2.1
(10) Special Operations	CACDA	CACDA	LT	SL	2	LT	SL	3	2	3	2	3	2	3	2.5
			HR(S)	1	1	HR(S)	1	2	1	1.3	8	2	3.7	2.5	2.5
			HR(P)	0	0	HR(P)	0	0	0	0	0	0	0	0	0
			HR(I)	0	0	HR(I)	0	0	1	2	2	2	0	0	0

SUBJECT	Proponent	Proponent Sufficiency Level/ Hours Required	CA-Maneuver				CAM Mean	CA Non Maneuver	CAM MEAN	Combat Areas Mean				
			IN	AR	AVA		FA	AD	EN					
C. Offensive Operations	(1) Doctrine (Concepts) and Fundamentals	IN/AR	CPT	SL 1 HR(S) 2	CPT	SL HR(S) HR(P) HR(I)	3 4 0 4	2 2 2 0.5	3 1 0 0	2.7 2.3 0.7	1 16 0 0	2 4 0 4	3 2 0 0	2.3 4.6 0.3
			LT	SL 1/2 HR(S) 12/10	LT	SL HR(S) HR(P) HR(I)	1 12 4 0	2 10 10 0	3 2 0.6 2	2 8 4.8	1 c 12 4	2 2 0 0.3	2 1.7 1.5 4	1.8 5.4 4.4
			CPT	SL 1/1 HR(S) 8/6	CPT	SL HR(S) HR(P) HR(I)	1 8 4 2	1 6 4 1.8	2 1 0 0.2	1.3 5 2.7	1 d 10.1 19.2	2 4 1 3	2 4 3 2	1.7 4.6 3.7
			LT	SL 1/2 HR(S) 12/10	LT	SL HR(S) HR(P) HR(I)	1 12 0 bbb	2 10 2 8	3 2 0.2 1	2 8 0.7	1 c 0 1.7	3 1 0 0.3	3 1 0 0	2.3 1 0 0
(3) Hasty Attack	IN/AR	CPT	SL 1/1 HR(S) 22/4	CPT	SL HR(S) HR(P) HR(I)	1 12 5 4	1 4 0 4	2 1 0 0.5	1.3 5.7 1.7	1 d 0.3 6	2 3 1 2	3 2 3 7	2 2.5 1.4	1.7 4.4 1.6
		LT	SL 1/2 HR(S) 12/10	LT	SL HR(S) HR(P) HR(I)	1 12 0 bbb	2 10 10 0	3 2 0.2 1	2 8 3.4	1 c 1 2	3 1 0 0.3	3 1 0 0	2.3 1 0 0	2.2 5.2 1.9
		CPT	SL 1/1 HR(S) 6/12	CPT	SL HR(S) HR(P) HR(I)	1 6 0 7	1 12 0 4	2 1 0 0.5	1.3 6.3 0	1 d 0.5 5	2 2 1 1	3 2 2 2	2 2 1.2	1.7 4.6 0.6
		LT	SL 1/2 HR(S) 12/10	LT	SL HR(S) HR(P) HR(I)	1 12 0 bbb	2 10 10 0	3 2 0.2 1	2 8 3.4	1 c 1 2	3 1 0 0.3	3 1 0 0	2.3 1 0 0	2.2 5.2 1.9
(4) Deliberate Attack	IN/AR	LT	SL 1/2 HR(S) 12/10	LT	SL HR(S) HR(P) HR(I)	1 12 0 bbb	2 10 10 0	3 2 0.2 1	2 8 3.4	1 c 0 1.5	3 1 0 0.3	3 1 1 0	2.3 1 1 0	2.2 5.2 1.9

C. Offensive Operations

(1) Doctrine (Concepts) and Fundamentals

(2) Movement to Contact

(3) Hasty Attack

(4) Deliberate Attack

SUBJECT

SUBJECT	Proponent	Proponent Sufficiency Level/ Hours Required		CA-Maneuver		CAM Mean	CA Non Maneuver		CAM MEAN	Combat Arms Mean
		SL	1/1	CPT	SL		IN	AR		
(5) Exploitation	IN/AR	CPT	SL	1/1	CPT	SL	1	1	2	1.7
		HR(S)	20/56	HR(S)	20	56	1	5	3	17
		HR(P)		HR(P)	12	5	d	1	4	3.8
		HR(I)		HR(I)	3	2	17	4	8	
(5) Exploitation	IN/AR	LT	SL	4/4	LT	SL	4	4	3	3
		HR(S)	0/0	HR(S)	0	0	c	1	1	0.8
		HR(P)		HR(P)	0	0	0	0	0	0
		HR(I)		HR(I)	0	0	0.5	0.3	0	
(6) Pursuit	IN/AR	CPT	SL	3/2	CPT	SL	3	2	2	2.2
		HR(S)	1/2	HR(S)	1	2	d	3	1	1.6
		HR(P)		HR(P)	0.2	0	0.3	1	0	0.3
		HR(I)		HR(I)	0	4	1.3	1.5	0.25	
(6) Pursuit	IN/AR	LT	SL	4/4	LT	SL	4	4	3	3
		HR(S)	0/0	HR(S)	0	0	c	1	1	0.7
		HR(P)		HR(P)	0	0	0	0	0	0
		HR(I)		HR(I)	0	0	0.5	0.3	0	
(7) Approach (Relief) of Encircled Forces	IN/AR	CPT	SL	3/2	CPT	SL	3	2	2	2.2
		HR(S)	1/2	HR(S)	1	2	d	3	1	1.6
		HR(P)		HR(P)	0.2	0	0.3	1	0	0.3
		HR(I)		HR(I)	0	2	2	1.5	0.25	
(7) Approach (Relief) of Encircled Forces	IN/AR	LT	SL	4/4	LT	SL	4	4	3	3
		HR(S)	0/0	HR(S)	0	0	c	1	1	0.7
		HR(P)		HR(P)	0	0	0	0	0	0
		HR(I)		HR(I)	0	0	0	0	0	
(8) Reconnaissance in Force IN/AR	IN/AR	CPT	SL	3/2	CPT	SL	3	2	2	2.2
		HR(S)	3/4	HR(S)	3	2	d	1	1	1.8
		HR(P)		HR(P)	0	0	0	0	0	0
		HR(I)		HR(I)	0	2	1	1	0	
(8) Reconnaissance in Force IN/AR	IN/AR	LT	SL	4/4	LT	SL	4	4	3	3
		HR(S)	0/0	HR(S)	0	0	c	1	1	0.7
		HR(P)		HR(P)	0	0	0	0	0	0
		HR(I)		HR(I)	0	0	0.2	0	0	
(8) Reconnaissance in Force IN/AR	IN/AR	CPT	SL	3/2	CPT	SL	2	1	2	1.8
		HR(S)	2/2	HR(S)	2	7	d	2	1	2.8
		HR(P)		HR(P)	0.1	5	0	0	1.5	0.9
		HR(I)		HR(I)	0	2	0	1	0	

SUBJECT	Proponent	Proponent Sufficiency Level/ Hours Required	CA-Maneuver				CA Non Maneuver	CAM Mean	CAMH MEAN	Combat Arms Mean
			IN	AR	AVa	FA	AD	EN		
D. Defensive Operations										
(1) Doctrine (Concepts) and Fundamentals										
(a) Covering Force Area IN/AR										
	LT	SL 1/2 HR(S) 1/4	1	2	3	1	3	3	2-3	2-2
			SL			HR(S)	e	1	1.5	2-2
			HR(P)	0	0.2	8	0	0.5	2.8	1.6
			HR(I)	0	2	2.2	0.5	0		
	CPT	SL 1/1 HR(S) 2/3	1	1	3	1	2	2	2-7	1-7
			SL			HR(S)	f	5	5.5	3-4
			HR(P)	1	0	9	2	1.5	4.2	2-4
			HR(I)	0	0.3	20.4	4	0		
(b) Main Battle Area IN/AR										
	LT	SL 1/2 HR(S) 1/4	1	2	3	1	3	3	2-3	2-2
			SL			HR(S)	e	2	2	2-2
			HR(P)	0	0.2	0	0	0.5	0.2	0-3
			HR(I)	0	2	9.2	1	0		
	CPT	SL 1/1 HR(S) 2/2	1	1	3	1	1	2	1-3	1-5
			SL			HR(S)	f	5	12.5	6
			HR(P)	1	0	1.5	10	2.5	4.7	3-5
			HR(I)	2	0.6	20.1	10	3		
(c) Rear Area										
	LT	SL 1/2 HR(S) 1/4	1	3	3	1	3	3	2-3	2-3
			SL			HR(S)	e	2	1.5	1-4
			HR(P)	0	0.2	0	0	0.5	0.2	0-3
			HR(I)	0	1	1.2	1	0		
	CPT	SL 1/1 HR(S) 2/2	1	1	3	1	1	2	1-3	1-5
			SL			HR(S)	f	5	5.5	3-2
			HR(P)	1	0	0.2	2	0.7	0.9	0-7
			HR(I)	1	0.3	6	4	1		
(2) Defense in Sector										
	LT	SL 1/2 HR(S) 8/4	1	2	3	1	3	3	2-3	2-2
			SL			HR(S)	e	2	1.5	1-5
			HR(P)	0	0.2	0	0	1.5	0.5	0-3
			HR(I)	0	0.5	0.2	0.5	0		
	CPT	SL 1/1 HR(S) 9/28	1	1	3	1	1	3	1-7	1-7
			SL			HR(S)	f	25	15	14-8
			HR(P)	28	0	1	20	5	8.7	6-4
			HR(I)	2	0.2	19.2	5	2		

SUBJECT

Proponent
Proponent
Sufficiency Level/
Hours RequiredGA-Maneuver
IN AR

AVA

CAM
MeanCA Non Maneuver
FA AD

EM

Combat
Areas
Mean(3) Defense from Battle
Positions

(a) Linear

IN/AR

LT SL
HR(S) 8LT SL
HR(S)
HR(P) fff
HR(I) bbb

3

2

1
e
0
1.2

3

2.3

2.2

(b) Perimeter

IN/AR

LT SL
HR(S) 8LT SL
HR(S)
HR(P) fff
HR(I) bbb

3

2

1
e
0
1.2

3

2.3

2.2

(4) Defense In-Depth

IN/AR

LT SL
HR(S) 8LT SL
HR(S)
HR(P) fff
HR(I) bbb

3

2

1
e
0
1.2

3

2.3

2.2

(5) Strong Points

IN/AR

LT SL
HR(S) 2/4LT SL
HR(S)
HR(P) fff
HR(I) bbb

3

2

1
e
0
1.2

3

2.3

2.2

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14

SUBJECT	Proponent			Proponent Sufficiency Level/Hours Required			CA-Maneuver			CAH Mean		CA Non Maneuver		CANH MEAN		Combat Arms Mean
	IN/AR	LT	SL	1/2	LT	SL	IN	AR	AVa	CAH Mean	FA	AD	EN	CAH MEAN	EN	
(6) Counterattack	IN/AR	LT	SL	1/2	LT	SL	1	2	3	2	1	3	3	2.3	1	2.2
(7) Breakout/Linkup	IN/AR	LT	SL	2/3	LT	SL	2	3	3	2.7	2	3	3	2.7	3	2.7
(1) Delay	IN/AR	LT	SL	1/2	LT	SL	1	2	3	2	1	2	3	2	2	2
(2) Withdrawal	IN/AR	LT	SL	1/2	LT	SL	1	2	3	2	3	3	3	2.5	3	2.5

E. Retrograde Operations

SUBJECT	Proponent		Proponent Sufficiency Level/ Hours Required		CA-Maneuver		CA Non Maneuver		CANH Mean	CANH MEAN	Combat Arms Mean
	IN/AR	LT SL HR(S) 1/2 HR(S) 0/4	LT SL HR(S) 1/1 HR(S) 3/2	LT SL HR(S) 0/4 HR(P) HR(I)	IN	AR	AVE	FA	AD	EN	
(3) Retirement	AR	LT SL HR(S) 1/2 HR(S) 0/4	LT SL HR(S) 1/1 HR(S) 3/2	LT SL HR(S) 0/4 HR(P) HR(I)	4	2	3	3	3	3	3
(3) Security	AR	LT SL HR(S) 16	LT SL HR(S) 16	LT SL HR(S) 0 HR(P) HR(I)	4	2	2	3	3	3	3
(2) Reconnaissance	AR	LT SL HR(S) 24	LT SL HR(S) 24	LT SL HR(S) 0 HR(P) HR(I)	4	2	2	3	3	3	3
(1) Doctrine (Concepts) and Fundamentals	AR	LT SL HR(S) 8	LT SL HR(S) 8	LT SL HR(S) 0 HR(P) HR(I)	3	2	2	3	3	3	3
(3) Retirement	AR	LT SL HR(S) 1/2 HR(S) 0/4	LT SL HR(S) 1/1 HR(S) 3/2	LT SL HR(S) 0/4 HR(P) HR(I)	4	2	3	3	3	3	3
(3) Security	AR	LT SL HR(S) 16	LT SL HR(S) 16	LT SL HR(S) 0 HR(P) HR(I)	4	2	2	3	3	3	3
(2) Reconnaissance	AR	LT SL HR(S) 24	LT SL HR(S) 24	LT SL HR(S) 0 HR(P) HR(I)	4	2	2	3	3	3	3
(1) Doctrine (Concepts) and Fundamentals	AR	LT SL HR(S) 8	LT SL HR(S) 8	LT SL HR(S) 0 HR(P) HR(I)	3	2	2	3	3	3	3

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SUBJECT	Proponent	Proponent Sufficiency Level/Hours Required	CA-Maneuver	CAM Mean	CA Non Maneuver	CANH MEAN	Combat Arms Mean
	AR	LT SL HR(S) 16	IN AR SL HR(S) 4 HR(P) 0 HR(I) 0	AVA	FA AD EN		
(4) Economy of Force							
		CPT SL 1 HR(S) 4	1 1 6 4 0 6 0 0	3 1.7 4 4 2 2 0 0 1 1	3 3 0.5 1 0 0 0.5 0	3 3 2.2 1 0 0 0 0	2.8 4.1 2.8
(5) Divul on 86 Cavalry Operations	AR	LT SL 3 HR(S) 2	4 3 0 2 0 2 0 0	3 3.3 2 1.3 0.1 0.7 0.1 0	3 3 0.5 1 0 0 0 0	3 3 2.2 1 0 0 0 0	3.2 1.8 0.4
		CPT SL 2 HR(S) 2	4 2 0 2 0 1 0 1	3 3 1 1 0 0.3 0 0	3 3 0.5 1 0 0 0 0	3 3 2.7 1 0.8 0 0 0	2.8 0.9 0.2
5. Fire Support							
A. Indirect Fire Support							
(1) Request and Adjust Fire FA		LT SL 1 HR(S) 14	1 2 15 25 7 15 bbb 9	2 2 5 15 21 14.3 8 8	2 2 3 3 3 3 1 1	2 2 1.7b 1 7 11 6.8 10.6	1.7b 1.7b 7.8 5
		CPT SL 1 HR(S) 12	1 1 5 18 1.5 3 1 2	2 2 3 8.7 7 3.8 7 7	2 2 5 5 3 3 2 2	2 2 b 7 5 5	1.7b 7.8 5
(2) FA Organization, Command and Control	FA	LT SL 3 HR(S) 1	2 2 1 2 0.5 2 3 0	3 2.3 2 1.7 0.5 1 0 0	3 3 3 3 0 0.5	3 3 1.3 1.5 0.3 0.7	2.8b 1.5 0.7
		CPT SL 3 HR(S) 1	1 1 10 2 3.5 2 4.5 5.7	2 2 5 5 2 2 0 0	2 2 7 7 1 1 6 6	3b 2.2b 2.7 4.2 1.7 2.1	2.2b 4.2 2.1

SUBJECT	Proponent	Proponent Sufficiency Level/ Hours Required		CA-Maneuver			CAM Mean	CA Non Maneuver		CAM MEAN	Combat Arms Mean
		FA	LT	SL	IN	AR		AVA	FA		
(3) FA Priority Support in AirLand Battlefield											
			LT	SL	3	3	3	3	3	3	3 ^b
				HR(S)	1	1	1	1	1	2	1.2
				HR(P)	0	1	0.1	0.4	0	0	0.4
				HR(I)	0.5	0	0	8	0.5	0	
			CPT	SL	3	2	3	2.3	1	2	2.5 ^b
				HR(S)	1	1	1	1	12	2	1.3
				HR(P)	0	1	0	0.3	3	0	0.7
				HR(I)	1.5	3.3	0	6.3	2	0	
(4) FA Land Space Requirements In MDA/CFA											
			LT	SL	4	4	3	3.7	3	4	3.8 ^b
				HR(S)	0	0	1	0.3	2	0	0.2
				HR(P)	0	0	0	0	0	0	0
				HR(I)	0	0	0	0	3	0	
			CPT	SL	3	2	3	2.7	2	3	2.8 ^b
				HR(S)	1	1	1	1	6	1	0.8
				HR(P)	1.1	0	0	0.4	1	0	0.3
				HR(I)	0.1	0	0	5	1	1	
B. Close Air Support (CAS and BAI)											
	CGSC		LT	SL	1	2	2	2.3	1	3	2.3
				HR(S)	4	4	4	3	11	1	3.8
				HR(P)	1.8	4	2.5	2.8	16.7	0	4.2
				HR(I)	0.4	2	0	0	0	0.25	
			CPT	SL	1	1	2	1.3	1	2	1.7
				HR(S)	3	4	4	3.7	15	2	5
				HR(P)	2	3	0	1.7	15	0	3.4
				HR(I)	1.2	2.6	0.5	0	0	0.5	
C. Suppression of Enemy AD (SEAD)											
	CGSC		LT	SL	2	2	2	2.7	1	3	2.7
				HR(S)	0	1	3	1.3	0.5	1	0.9
				HR(P)	1	1	0	0.7	0.5	0.25	0.5
				HR(I)	0.1	0	0	0.5	0	0	
			CPT	SL	1	1	2	2	1	2	2
				HR(S)	4	2	3	2	2	3	2
				HR(P)	1	0	0	0.3	0.2	0.25	0.3
				HR(I)	0.5	0.2	0	3.7	0.25	0.25	

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SUBJECT	Proponent	Proponent Sufficiency Level/Hours Required	CA-Maneuver	CA Non Maneuver	CANM MEAN	Combat Arms Mean
			IN AR	FA AD	EN	
D. Nuclear and Chemical Weapons Employment						
(Consolidated Entry--See Annex H, Appendix 1 and 2)	CGSC/FA/CH	LT SL	3	3	3	2.7
		HR(S)	29	33.5	113	40.4
		HR(P)	14.5	20.5	20.2	17.1
		HR(I)	0	0	12.7	
					7.1	
7. Engineer Operations (Combat Support)	EN	CPT SL	3	2	2	2.5
		HR(S)	60	31.5	232	67.1
		HR(P)	34.7	34.2	37.1	29.8
		HR(I)	29.1	3	25.1	
					0	
A. Mobility	EN	LT SL	1	2	3	2.3
		HR(S)	2	1	125	2.3b
		HR(P)	3	1	80.4	1.5
		HR(I)	0	0	9	1.3
					0.3	
B. Countermobility	EN	CPT SL	1	2	2	2.3b
		HR(S)	2	2	119	2.3b
		HR(P)	2	2	31	3.8
		HR(I)	2	5.1	9	3.3
					0	
C. Survivability	EN	LT SL	1	2	1	2.3b
		HR(S)	5	8	75	3.2
		HR(P)	11	8	14	4.2
		HR(I)	bbb	0	49	
					0.3	
	EN	CPT SL	1	1	1	2.3b
		HR(S)	7	6	64	2b
		HR(P)	6	6	12	6
		HR(I)	3	8.5	49	4.2
					5	
	EN	LT SL	1	2	1	2.3b
		HR(S)	12	2	50	2.3b
		HR(P)	0	2	4.5	3.4
		HR(I)	0	0	1	1.3
					0.3	
	EN	CPT SL	1	1	1	2.3b
		HR(S)	4	1	2	2b
		HR(P)	1	1	2	2
		HR(I)	1	1	2.5	1
					0	

SUBJECT	Proponent	Proponent Sufficiency Level/ Hours Required		CA-Maneuver		CAM Mean	CA Non Maneuver		CAMH MEAN	Combat Arms Mean			
		LT	SL	LT	SL		IN	AR			Ava	FA	AD
D. General Engineering	EN	LT	SL	3	3	3	3	3	3	3	2	1	2.7b
		HR(S)	1	1	1	0.5	1	1	0.8	0.5	1	175	0.8
		HR(P)	0	1	0	0	0	0	0.3	1	0	91.25	0.7
		HR(I)	0	0	0	0	0	0	0	0	0.3	200	0.5
		CPT	SL	3	2	3	3	2.7	3	3	2	1	2.7b
		HR(S)	1	2	0.5	1.2	1	2	400	2	2	40.5	1.5
		HR(P)	0	2	0	0.7	0	2	1	0.5	1	70	0.9
		HR(I)	0	0	0.2	0	0	1	1	1	1	70	0.9
8. Army Aviation													
A. Combat Aviation	AV	LT	SL	2	2	2	3	2	2.3b	3	3	3	2.7b
		HR(S)	6	1	2	30	1	2	3	2	1	1	1.3
		HR(P)	0	2	5.2	2.4	0	2	2.4	1	0	0	0.3
		HR(I)	0	0	0	0	0	0	0	0	0	0	1.4
		CPT	SL	1	2	1	1.3b	2	1	3	2	3	2.7
		HR(S)	10	6	2	6	2	2	2	2.5	4	1	2.5
		HR(P)	2	4	0	2	2	4	2	1	0	0	0.3
		HR(I)	0.2	16.5	12	0	0.2	12	2	2	2	0	1.2
B. Combat Support Aviation	AV	LT	SL	2	2	2	3	2	2.3b	3	3	3	2.7b
		HR(S)	7	1	0.5	2.8	1	0.5	2.8	2	1	1	1.3
		HR(P)	0	0.5	0.6	0.4	0	0.5	0.4	0	0	0	0
		HR(I)	0	0	0.2	0	0	0	0	0	0	0	0.2
		CPT	SL	1	2	1	1.7b	2	1	3	2	3	2.7
		HR(S)	12	6	2	15	6	2	6.7	0.5	4	1	1.8
		HR(P)	2	1	0	1	2	1	1	1	0	0	0.3
		HR(I)	1	0	4	0	1	0	0	2	0.5	0	0
C. Combat Service Support Aviation	AV	LT	SL	2	3	2	3	3	2.7b	3	3	3	2.8b
		HR(S)	7	1	0.5	2.8	1	0.5	2.8	2	1	1	1.3
		HR(P)	0	0.5	0.2	0.2	0	0.5	0.2	0	0	0	0
		HR(I)	0	0	0.2	0	0	0	0	0	0	0	0.1
		CPT	SL	1	2	2	2.3	3	2	3	2	3	2.7
		HR(S)	12	1	5	2.3	1	1	2.3	0.5	2	1	1.2
		HR(P)	1	1	0	0.7	1	1	0.7	2.2	0	0	0.7
		HR(I)	0	0	2	0	0	0	0	0	0	0	0

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SUBJECT	Proponent	Proponent Sufficiency Level/ Hours Required	CA-Maneuver	CA Non Maneuver	CAM Mean	CAH MEAN	Combat Arms Mean
			IN AR AVa	FA AD EN			
9. Combat Service Support							
A. Logistics Operations							
(1) Supply							
QM	LT SL	3	2	2	2.7	2	2.3
	HR(S)	11	8	18	6	8	7.9
	HR(P)		2	7	3.3	5	3.7
	HR(I)		0	1		0	
	CPT SL	3	1	1	1.7	2	1.7
	HR(S)	25	16	10	16	12	13.6
	HR(P)		10	7	8.7	8	7.1
	HR(I)		1.9	3		0	
(2) Ammunition Support Structure and Requisitioning							
MM	LT SL	2	3	3	3.3	3	3
	HR(S)	4	1	1	0.5	1	0.9
	HR(P)		0	0	0.3	0	0.2
	HR(I)		0	0		0	
	CPT SL	2	1	2	2.3	2	2.2
	HR(S)	2	1	2	0.8	1	1.3
	HR(P)		0	0	0.2	0	0.3
	HR(I)		0.9	0		0	
(3) Ammunition Supply Rates and DAO Functions							
MM	LT SL	3	3	4	3.3	3	3.2
	HR(S)	2	0.5	0	0.3	1	0.8
	HR(P)		0	0	0.2	0	0.1
	HR(I)		0	0		0	
	CPT SL	3	1	2	2.3	3	2.2
	HR(S)	1	2	2	1.2	1	1.1
	HR(P)		0	0	0.3	0	0.4
	HR(I)		0.3	1		0.4	

SUBJECT	Proponent	Proponent Sufficiency Level/Hours Required		CA-Maneuver		AVA	CAM Mean	CA Non Maneuver	EN	CAMH MEAN	Combat Arms Mean
		LT	SL	IN	AR						
B. Transportation Operations											
(1) Convoy Operations	TC	LT	SL	3	1	3	2.3	3	2	2.3	2.3
		HR(S)	4	0	2	2	0.1	1	1	1.2	
		HR(P)	0	2	0	0	0	0	1	0.5	
		HR(I)	0	0	0	0	0.2	0	0		
(2) Movement Control	TC	CPT	SL	3	1	3	2.3	3	1	2	2.2
		HR(S)	0	2	1	1	0.2	2	2	1.4	
		HR(P)	0	0.4	0	0	0	0	0	0.1	
		HR(I)	0	0.4	0	0	0	0	2		
(2) Movement Control	TC	LT	SL	3	2	3	2.7	3	2	2.7	2.7
		HR(S)	1	1	2	1.3	0.1	1	1	0.7	
		HR(P)	0	1	0	0.3	0	0	0	0	
		HR(I)	0	0	0	0	0.2	0	0	0.2	
(2) Movement Control	TC	CPT	SL	3	1	3	2.3	3	1	2.3	2.3
		HR(S)	1	1	1	1	0.2	2	1	1.1	
		HR(P)	0	0.4	0	0.1	0	0	0	0.1	
		HR(I)	0	0.4	0	0	0	0	0		
C. Field Services Operations											
(1) Recovery/Evacuation	QM	LT	SL	4	2	3	3	4	3	3	3
		HR(S)	3	0	1	0.5	0	3	2	1.7	
		HR(P)	0	1	0	0.3	0	0	0	0	
		HR(I)	0	0	0	0	0	0	0	0.2	
(1) Recovery/Evacuation	QM	CPT	SL	4	1	3	2.7	3	2	2.7	2.7
		HR(S)	4	2	0.5	0.8	0.2	3	2	1.7	
		HR(P)	0	0	2	0.7	0	0	0	0.3	
		HR(I)	0	0.5	0	0	8	1	0		
D. Maintenance Operations											
(1) Recovery/Evacuation	OD	LT	SL	2	2	3	2.3	3	2	2.3	2.3
		HR(S)	4	8	1	5.7	1	3	3	2.3	
		HR(P)	7	8	0	5	2	0	2	1.3	
		HR(I)	0	0	1	0	0	0	0		
(1) Recovery/Evacuation	OD	CPT	SL	2	1	3	2	3	2	2.3	2.2
		HR(S)	2	8	1	3.3	2.2	2	3	2.4	
		HR(P)	0	0	0	0	4.4	0	0	1.5	
		HR(I)	1	2	0.5	0	4.2	2	0.25		

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SUBJECT	Proponent	Proponent Sufficiency Level/ Hours Required	CA-Maneuver	CA Non Maneuver	CANH MEAN	Combat Arms Mean
			IN AR AVa	PA AD EN		
(2) Command and Staff Management of Preventive Maintenance OD						
	LT SL 2	LT SL 2	2 2 3	2 3	1 2	2.2
	HR(S) 4	HR(S) 4	4 1 4	3.1 6	2 3.7	3.4
		HR(P) 0	2 0 0	5 0	0 1.7	1.2
		HR(I) 0	2 0 0	0 1	0 0	
	CPT SL 1	CPT SL 2	3 2 3	1 1	1 1	1.5
	HR(S) 8	HR(S) 12	2 2 12.7	8 6	8 7.3	10
		HR(P) 0	0 0 0	8.2 1	0 3.1	1.5
		HR(I) 0	0 6 0.1	2 2	0 0	
(3) The Army Maintenance Management System OD						
	LT SL 3	LT SL 2	3 2 3	2 2	1 1.7	2
	HR(S) 3	HR(S) 10	4 15 4	6.7 9	4 6.6	8.1
		HR(P) 4	4 16 4	6.7 4	0 3.6	5.8
		HR(I) 0	0 0 0	0 0	0 0	
	CPT SL 2	CPT SL 2	3 2 3	1 1	1 1	1.5
	HR(S) 4	HR(S) 7	2 2 9.7	20 10	4 11.3	10.5
		HR(P) 0	2 2 8.7	5 5	0 3.3	6
		HR(I) 0	0 0 0	4.7 0	0 0	
E. Personnel and Administration Operations						
(1) Manpower Accountability SSC						
	LT SL 2	LT SL 3	3 3 3	4 3	3 3.3	3.2
	HR(S) 4	HR(S) 1	0.5 0.5 0.5	0 2	1 1	0.8
		HR(P) 0.5	0 0 0	0 0	0 0	0.2
		HR(I) ddd	0 0 0	0 0.5	0 0	
	CPT SL 1	CPT SL 3	3 1 3	4 2	2 2.7	2.5
	HR(S) 6	HR(S) 1	2 1 1.3	0 2	2 1.3	1.3
		HR(P) 1	2 0 1	0.3 2	0 0.8	0.9
		HR(I) 0	0.4 0.4 0.4	4.2 0	0 0	
(2) Casualty Reporting SSC						
	LT SL 2	LT SL 3	3 2 3	3 3	2 2.7	2.7
	HR(S) 2	HR(S) 1	1 1 0.5	0.5 1	1 0.8	0.8
		HR(P) 0	0 0 0	0 0	0 0	0
		HR(I) bbb	1 0 0	0 0	0 0	
	CPT SL 2	CPT SL 3	3 1 3	3 2	2 2.3	2.3
	HR(S) 2	HR(S) 1	1 1 1	0.3 1	1 0.8	0.9
		HR(P) 1	0 0 0.3	0.3 0	0 0.1	0.2
		HR(I) 0	1.1 0 0	3.5 1	0 0	

SUBJECT	Proponent	Proponent Sufficiency Level/ Hours Required		CA-Maneuver			CAM Mean		CA Non Maneuver			CAMH MEAN	Combat Arms Mean
(3) Replacements	SSC	LT	SL	4	2	3	3	3	4	3	2	3	3
		HR(S)	4	0	1	0.5	0.5	0	0	1	1	0.7	0.6
		HR(P)	0	0	0	0	0	0	0	0	0	0	0
		HR(I)	0	0	0	0	0	0	0	0	0	0	0
		CPT	SL	3	1	4	2.7	2.3	3	2	2	2.3	2.5
		HR(S)	4	1	0	0.7	0.7	0.2	0.2	1	1	0.7	0.7
		HR(P)	0.5	0	0	0.2	0.2	0	0	0	0	0.1	0.1
		HR(I)	0	0	0.1	3.5	3.5	3.5	3.5	1	0	0	0
		LT	SL	1	1	2	1.3	2	2	2	2	2	1.7
		HR(S)	4	0	1	1.7	1.7	1	1	2	8	3.7	2.7
		HR(P)	4	0	4	2.7	2.7	0	0	0	2	0.7	1.7
		HR(I)	bbb	0	4	4	4	0	0	0	0	0	0
		CPT	SL	1	1	2	1.3	2	2	2	2	2	1.7
		HR(S)	4	2	1	1	1	0.6	0.6	2	4	2.2	1.6
		HR(P)	4	0	0	1.3	1.3	0	0	0	0.5	0.2	0.8
		HR(I)	0	0	0	6.5	6.5	6.5	6.5	0	0	0	0
		LT	SL	1	2	3	2	2	3	2	2	2.3	2.2
		HR(S)	2	1	1	1.3	1.3	0.2	0.2	2	2	1.4	1.4
		HR(P)	2	1	0.2	1.1	1.1	0	0	0	0	0	0.5
		HR(I)	0	0	0	0	0	0	0	0	0	0	0
		CPT	SL	1	1	3	1.7	2	3	2	2	2.3	2
		HR(S)	2	1	1	1.3	1.3	0.2	0.2	3	2	1.7	1.5
		HR(P)	2	0	0	0.7	0.7	0	0	2	0	0.7	0.7
		HR(I)	0	0.4	0	3.5	3.5	3.5	3.5	1	0	0	0
		LT	SL	4	2	4	3.3	4	2	2	4	2.7	2.3
		HR(S)	0	1	0	0.3	0.3	6	6	1	0	2.3	1.3
		HR(P)	0	0	0	0	0	0	0	0	0	0	0
		HR(I)	0	1	0	0	0	0	0	0	0	0	0
		CPT	SL	3	2	4	3	1	1	1	3	1.7	2.3
		HR(S)	4	1	0	1	1	3	3	2	1	2	1.5
		HR(P)	0	0	0	0	0	0	0	0	0	0	0
		HR(I)	0	0.2	0	0	0	0	0	2	0	0	0

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SUBJECT	Proponent	Proponent Sufficiency Level/Hours Required		CA-Maneuver		CA Non Maneuver	CANM MEAN	Combat Arms Mean	
		LT	SL	IN	AR	FA	AD	EN	
10. Special/Other Operations									
A. Low Intensity Conflict									
(1) Counterinsurgency Operations									
IN		LT	SL	3	3	3	3	3	3
		HR(S)	0	0	0.5	5	0.5	1	2.2
		HR(P)	0	0	0	0	0	0	0
		HR(I)	0	0	0	0	0	0	0
	CPT	SL	3	3	3	3	3	3	3
		HR(S)	8	0.5	0.3	1	2	2	2
		HR(P)	0	0	0	0	0	0	0
		HR(I)	0	0	0	0	0	0	0
(2) Counterterror Operations									
MP/IMA/CGSC		LT	SL	2/3	3	3	3	3	3
		HR(S)	20/1	0	0	0.5	0	1	0.5
		HR(P)	0	0	0	0	0	0	0
		HR(I)	0	0	0	0	0	0	0
	CPT	SL	1/2	3	3	3	3	3	3
		HR(S)	36/2	2	0.5	1	2	1	1
		HR(P)	1	0	0	0	0	0	0
		HR(I)	0	0	0	0	0	0	0
(3) Foreign Internal Defense									
IMA		LT	SL	3	4	4	4	3	3
		HR(S)	1	0	0	0.5	0	1	0.3
		HR(P)	0	0	0	0	0	0	0
		HR(I)	0	0	0	0	0	0	0
	CPT	SL	2	3	3	3	3	3	3
		HR(S)	2	2	2.7	0.5	1	0.5	1
		HR(P)	6	0	2	0	0	0	0
		HR(I)	0	0	0	0	0	0	0
B. Special Forces Operations									
IMA		LT	SL	3	4	3	4	3	3
		HR(S)	1	0	0.5	0	1	0.7	0.5
		HR(P)	0	0	0	0	0	0	0
		HR(I)	0	0	0	0	0	0	0
	CPT	SL	2	3	3	3	3	3	3
		HR(S)	2	0	0.5	0	1	0.7	0.4
		HR(P)	0	0	0	0	0	0	0
		HR(I)	0	0	0	0	0	0	0

SUBJECT	Proponent	Proponent Sufficiency Level/ Hours Required		CA-Maneuver			CAMH Mean	CA Non Maneuver			CAMH MEAN	Combat Arms Mean				
		LT	SL	HR(S)	LT	SL		HR(S)	IN	AR			AVA	FA	AD	EN
C. Unconventional Warfare	IMA	LT	SL	3	LT	SL	3	4	3	3	3	3	3	3	3.5	
			HR(S)	1		HR(S)	0	0	0.5				4	0	1	0.3
						HR(P)	0	0	0	0	0	0	0	0	0	0
						HR(I)	0	0	0	0	0	0	0	0	0	0
		CPT	SL	2	CPT	SL	3	3	3	3	3	3	3	3	3	
			HR(S)	2		HR(S)	8	1	0.5				3	0.5	1	0.8
						HR(P)	1	0	0	0.3			0	0	0	0.2
						HR(I)	0	0	0	0	0	0	0	0	0	0
D. Psychological Operations	IMA	LT	SL	3	LT	SL	3	3	3	3	3	3	3	3	3.2	
			HR(S)	1		HR(S)	0	0	0.5				4	0	1	0.7
						HR(P)	0	0	0	0	0	0	0	0	0	0.4
						HR(I)	0	0	0	0	0	0	0	0	0	0
		CPT	SL	2	CPT	SL	3	3	3	3	3	3	3	3	3	
			HR(S)	2		HR(S)	0	0.5	0.5				3	1	1	0.7
						HR(P)	0	0	0	0	0	0	0	0	0.25	0
						HR(I)	0	0	0.1				0	0	0.25	0
E. Civil Affairs	IMA	LT	SL	3	LT	SL	3	3	3	3	3	3	3	3	3.2	
			HR(S)	1		HR(S)	0	1	1				4	0	1	0.7
						HR(P)	0	1	0	0.3			0	0	0	0.2
						HR(I)	0	0	0	0	0	0	0	0	0	0
		CPT	SL	2	CPT	SL	3	2	3	3	3	3	3	3	2.8	
			HR(S)	2		HR(S)	0	2	1				3	1	1	1.2
						HR(P)	0	1	1				2	0	0.25	0.5
						HR(I)	0	0	0	0.7			0.5	0	0.25	0
F. Amphibious Operations	IN	LT	SL	3	LT	SL	3	3	3	3	3	3	3	3	3	
			HR(S)	1		HR(S)	1	1	1				4	0	1	0.7
						HR(P)	0	1	0	0.3			0	0	0	0.2
						HR(I)	0	0	0	0	0.3		0	0	0	0
		CPT	SL	3	CPT	SL	3	3	3	3	3	3	3	3	2.7	
			HR(S)	8		HR(S)	8	1	1				3	2	1	2.7
						HR(P)	0	2	0	0.7			2	1	0	0.3
						HR(I)	0	0.2	0	0	0		0	0	0	0.5

Proponent	Sufficiency Level/ Hours Required	CA-Maneuver				CA Mean	CA Non Maneuver			CA/MH MEAN	Combat Arms Mean
		IN	LT SL HR(S)	AR	AVG		FA	AD	EW		
(2) Jungle		IN	LT SL HR(S)	3 1	LT SL HR(S) HR(P) HR(I)	3 1 0 0 0	4 0 0 0 0	3 1 0.1 0 0	3 3.3 0.7 0 0	3 3 2.7 0 0	3.2 1.7 0
			CPT SL HR(S)	2 7	CPT SL HR(S) HR(P) HR(I)	2 7 0 0 0	2 1.5 1 0 0	3 1 0 0 0	2.3 3.2 0.3 0 0	3 2.7 1.2 0 0	2.5 2.2 0.2
(3) Mountain		IN	LT SL HR(S)	3 1	LT SL HR(S) HR(P) HR(I)	3 1 0 0 0	4 0 0 0 0	3 1 0.2 0.3 0	3.3 0.7 0 0 0	3 3 1.2 0 0	3.2 0.9 0
			CPT SL HR(S)	2 7	CPT SL HR(S) HR(P) HR(I)	2 7 0 0 0	2 1.5 0 0 0	3 1 0 0 0	2.3 3.2 0.7 0 0	3 2.7 1.3 0 0	2.5 2.3 0.3
(5) Northern Terrain		IN	LT SL HR(S)	3 1	LT SL HR(S) HR(P) HR(I)	3 1 0 0 0	3 1 0.2 0.4 0	3 1 0.2 0.4 0	3 3 2 0 0	3 3 2.7 1.3 0	2.5 2.3 0.3
			CPT SL HR(S)	2 7	CPT SL HR(S) HR(P) HR(I)	2 7 0 0 0	2 2.5 0 0 0	3 2.3 3.3 1.8 0	3 2.3 2 0 0	3 2.7 1.3 0 0	2.5 2.3 0.9
(5) Military Operations in Urban Terrain (MOUT)		IN	LT SL HR(S)	1 15	LT SL HR(S) HR(P) HR(I)	1 15 12 0 0	3 2 7 5.4 0.1	3 2 7 5.4 0.1	1 1 1 0 1.2	3 2.3 1 0 0	2.2 4 2.7
			CPT SL HR(S)	1 27	CPT SL HR(S) HR(P) HR(I)	1 27 25 2 0	3 1 1 0 0	3 1.7 10.7 10.6 0	1 0.6 4.2 9 0	2 1.7 1.9 1.4 6	1.7 6.3 6

SUBJECT	Proponent	Proponent Sufficiency Level/ Hours Required	CA-Maneuver	CAN Mean	CA Non Maneuver	CAN MEAN	Combat Arms Mean
	IN/AR/EN	LT SL 2/2/3 HR(S) 4/3/4	IN AR	Ava	FA AD EN		
K. River Crossing							
	LT SL 2/2/3 HR(S) 4/3/4	2 2 2 4 3 3 0 3 0 0 0 0	2 2 2 4 3 3 0 3 0 0 0 0	3 3 3 1 1 1 0 0 0 0.3	3 3 3 0.5 1 1 0.5 0 0 0.5 0 0	1 3b 20 1.8 0 0.2 0	2.7b 2.3 0.6
	CPT SL 1/2/2 HR(S) 10/4/16	1 2 2 10 4 4 7 1 1 2 0 0	1 2 2 10 4 4 7 1 1 2 0 0	3 3 3 1 1 1 0 0 0 0	1 5 2.7 5 3 1 0.6 1 2 7.1	1 1.7b 25 8 10 3.9 0	1.8b 6.5 3.3
L. Tactical Deception Operations							
	CGSC LT SL 1 HR(S) 10	4 4 4 0 0 0 0 0 0 0 0 0	4 4 4 0 0 0 0 0 0 0 0 0	3 3 3 2 2 2 0 0 0 0.2	1 3 3 0 1 1 0 0 0 0.5	3 3 3 1 1 1 0 0 0 0	3 0.8 0
	CPT SL 1 HR(S) 10	2 3 3 4 1 1 0.1 0 0 0.1 0 0	2 3 3 4 1 1 0.1 0 0 0.1 0 0	2 2 2 2 0 0 0 10	1 2 2 d 1 1 0.2 1 3 19.2	3 2 2 2 1.5 0 0.4 1	2.2 2 0.2
M. Rear Area Combat Operations							
(1) Organization for Combat CGSC/MP							
	LT SL 1/2 HR(S) 2/0	3 3 3 0 0 0 0 0 0 0 0 0	3 3 3 0 0 0 0 0 0 0 0 0	3 3 3 2 2 2 0.1 0 0 0	3 3 3 2 1 1 0 0 0 1	3 3 3 1 1 1 0 0 0 0	3 1 0
	CPT SL 1/1 HR(S) 2/0	3 2 2 2 0.5 1 0 0 1 0 0	3 2 2 2 0.5 1 0 0 1 0 0	3 3 3 1 1 1 0 0 0 1	1 37 58 2 0 0 2 0 0	3 2 2 13.7 0 0 0 0	2.3 7.4 0.2
(2) Perimeter Defense CGSC/MP							
	LT SL 1/2 HR(S) 4/0	3 2 2 0 0 0 0 0 0 0 0 0	3 2 2 0 0 0 0 0 0 0 0 0	3 3 3 1 1 1 0.1 0 0 0	3 3 3 0.3 0 0 0 0 0 1	3 2.7 1 1.1 0.3 0.2 0	2.7 0.7 0.2
	CPT SL 1/1 HR(S) 4/0	3 2 2 1 0 0 0 0 0 0 0 0	3 2 2 1 0 0 0 0 0 0 0 0	3 3 3 1 1 1 0 0 0 0	1 0.2 1 0.5 0 0 0 1 0	3 1.7 2 0.9 0 0 0	2.2 0.8 0

SUBJECT	Proponent	Proponent Sufficiency Level/ Hours Required		CA-Maneuver			CAH Mean	CA Non Maneuver		CANM MEAN	Combat Arms Mean				
		LT	SL	LT	SL	HR(S)		IN	AR			AVA	FA	AD	EN
(3) Active/Passive Security CGSC/MP		LT	SL	1/2	3	2	3	2.7	3	2.7	3	2	3	2.7	2.7
			HR(S)	2/0	0	0	1	0.3	0.1	0	0.7	1	0	0.5	
			HR(P)		0	0	0.1	0	0	0	0	0	0	0	
			HR(I)		0	0	0	0	0	0	0	1	0	0	
		CPT	SL	1/1	3	2	3	2.7	1	2.7	3	1	3	2.7	2.2
			HR(S)	2/0	2	0	1	1	0.1	1	1.4	2	0	1.2	
			HR(P)		0	0	0	0	0	0	0	0	0	0	
			HR(I)		0	0	0	0	0	0	0	2	0	0	
(4) Weapons Employment		LT	SL	1/2	3	2	3	2.7	3	2.7	3	2	3	2.7	2.7
			HR(S)	4/2	0	0	2	0.7	0.1	0	1	2	1	0.9	
			HR(P)		0	0	0	0	0	0	1	2	1	0.5	
			HR(I)		0	0	0	0	0	0	0	2	0	0	
		CPT	SL	1/1	3	2	3	2.7	1	2.7	3	1	3	1.7	2.2
			HR(S)	6/4	1	0.5	1	0.8	0.1	2	2	4	0	1.4	
			HR(P)		0	0	0	0	0	0	0	0	0	0	
			HR(I)		0	0	0	0	0	0	0	4	0	0	
(5) Physical Layout of Rear Area		LT	SL	1/2	3	3	3	3	3	3	3	3	3	3	3
			HR(S)	2/4	0	2	1	1	0.1	0.1	0.7	1	1	0.9	
			HR(P)		0	0	0.1	0	0	0	0.3	0	0	0.2	
			HR(I)		0	0	0	0	0	0	0	0	0	0	
		CPT	SL	1/2	3	2	3	2.7	3	2.7	3	2	3	2.7	2.7
			HR(S)	4/4	2	2	1	1.7	0.2	0.7	0.7	1	0	0.9	
			HR(P)		0	0	0	0	0	0	0	0	0	0	
			HR(I)		0	0	0	0	0	0	0	0	0	0	
11. Leadership		LT	SL	1	1	2	2	1.7	1	1.7	1	2	1	1.3	1.5
			HR(S)	30	40	24	35	33	7	33	27.3	50	25	30.2	
			HR(P)		37	4	7	16	19	0	18.3	36	0	17.2	
			HR(I)		ddd	28	2	1	1	0	0	0	0	0	
		CPT	SL	1	1	1	2	1.3	1	1.3	1	2	1	1.3	1.3
			HR(S)	50	60	40	65	55	55	43.3	50	25	49.2	49.2	
			HR(P)		50	50	7	35.7	39	24	33	0	29.8		
			HR(I)		0	5	0	0	0	0	0	0	0	0	

SUBJECT	Proponent	Proponent Sufficiency Level/ Hours Required	CA-Maneuver			CAM		CA Non Maneuver		CANH		Combat Arms Mean
			IN	AR	AVA	Mean		FA	AD	EN	MEAN	
TOTAL HOURS	LT	HR(S)	523	473.5	341.5	446		418.1	377.5	687	494.2	470.1
		HR(P)	159.3	317	123.5	199.9		193.9	123	254.75	190.6	195.2
		HR(I)	441.5	191.5	83.2			220.31	63.85	266.75		
	CPT	HR(S)	703	623.5	379.5	568.7		1068.1	714	911.3	897.8	733.2
		HR(P)	358.7	315.4	78.2	250.8		297.8	287.75	180.45	255.3	253
		HR(I)	260.9	176	84.6			688.2	351.5	181.4		

FOOTNOTES

- a. Initial Entry Rotary Wing Course data used for Aviation LT, and Warrant Officer Advanced Course data used for Aviation CPT.
- b. Proponent recommended sufficiency level and hours used to compute the mean.
- c. Field Artillery indicates 15 hours required for Offensive Operations in OBC.
- d. Field Artillery indicates 22 hours required for Offensive Operation in OAC.
- e. Field Artillery indicates 15 hours required for Defensive Operations in OBC.
- f. Field Artillery indicates 27 hours required for Defensive Operations in OAC.
- g. Field Artillery indicates 9 hours required for Reconnaissance and Security Operations in OAC.
- h. Field Artillery indicates 4 hours required for Air Defense in OAC.
- i. Field Artillery indicates 4 hours required for Engineer Operations in OAC.
- j. Signal School data does not reflect SC 72 data.
- k. Signal School indicates 1 hour required for Defensive Doctrine and Fundamentals in OBC and OAC.
- l. Signal School devotes 0.5 hours to Defensive Doctrine and Fundamentals in OBC.
- m. Signal School devotes 3 hours to Defensive Doctrine and Fundamentals in OAC.
- n. Signal School devotes 1 hour to Defensive Doctrine and Fundamentals in OAC.
- o. Missile and Munitions OAC POI data not available.
- p. Missile and Munitions indicates 40 hours required for Organizational Basics in OBC.
- q. Missile and Munitions devotes 40 hours for Organizational Basics in OBC.
- r. Missile and Munitions devotes 18 hours for Organizational Basics in OBC.
- s. Missile and Munitions indicates 55 hours required for Organizational Basics in OAC.
- t. Missile and Munitions indicates 3 hours required for Electronic Warfare in OBC.
- u. Missile and Munitions indicates 9 hours required for Electronic Warfare in OAC.
- v. Missile and Munitions indicates 12 hours required for Tactical Basics in OBC.
- w. Missile and Munitions indicates 9 hours required for Tactical Basics in OAC.
- x. Missile and Munitions indicates 3 hours required for Intelligence in OBC.

- y. Missile and Munitions devotes 1 hour to Intelligence in OBC.
- z. Missile and Munitions indicates 5 hours required for Intelligence in OAC.
- aa. Missile and Munitions indicates 4 hours required for AD in OBC.
- bb. Missile and Munitions indicates 8 hours required for AD in OAC.
- cc. Missile and Munitions indicates 5 hours required for Threat in OBC.
- dd. Missile and Munitions devotes 6 hours to Threat in OBC.
- ee. Missile and Munitions indicates 8 hours required for Threat in OAC.
- ff. Missile and Munitions indicates 5 hours required for Offensive Operations in OBC.
- gg. Missile and Munitions indicates 5 hours required for Offensive Operations in OAC.
- hh. Missile and Munitions indicates 5 hours required for Defensive Operations in OBC.
- ii. Missile and Munitions indicates 9 hours required for Defensive Operations in OAC.
- jj. Missile and Munitions indicates 2 hours required for Retrograde Operations in OAC.
- kk. Missile and Munitions indicates 3 hours required for Reconnaissance and Security Operations in OAC.
- ll. Missile and Munitions indicates 2 hours required for USA Operational Concepts in OBC.
- mm. Missile and Munitions indicates 3 hours required for USA Operational Concepts in OAC.
- nn. Missile and Munitions indicates 1 hour required for Engineer Operations in OBC.
- oo. Missile and Munitions indicates 5 hours required for Engineer Operations in OAC.
- pp. Missile and Munitions indicates 1 hour required for Army Aviation in OBC.
- qq. Missile and Munitions devotes 1 hour to Army Aviation in OBC.
- rr. Missile and Munitions indicates 3 hours required for Army Aviation in OAC.
- ss. Missile and Munitions indicates 5 hours required for Transportation in OBC.
- tt. Missile and Munitions indicates 18 hours required for Transportation in OAC.
- uu. Missile and Munitions indicates 11 hours required for Manpower in OBC.
- vv. Missile and Munitions indicates 6 hours required for Manpower in OAC.
- ww. Missile and Munitions indicates 4 hours required for Special Environments in OAC.
- xx. Missile and Munitions indicates 20 hours required for Rear Area Combat Operations in OBC.

- yy. Missile and Munitions devotes 10 hours to RACO in OBC.
- zz. Missile and Munitions devotes 12 hours to RACO in OBC.
- aaa. Missile and Munitions indicates 12 hours required for RACO in OAC.
- bbb. Infantry School indicates subject integrated throughout 419 hours of FTX's.
- ccc. Infantry School indicates subject included in Defensive Operations.
- ddd. Infantry School indicates subject emphasized throughout the course.
- eee. Infantry School indicates 8 hours required for Defense in OBC.
- fff. Infantry School devotes 3 hours to Defense in OBC.
- ggg. Infantry School indicates 9 hours required for Defense in OAC.
- hhh. Infantry School devotes 1 hour to Defense in OAC.
- jjj. Infantry School indicates subject included in Patrolling.

ANNEX E

CONSOLIDATED CASS SURVEY DATA
FOR COMBAT SUPPORT SCHOOLS

LEGEND

- 1) SL - Sufficiency Level
 - a) SL 1 - Fully Proficient
 - b) SL 2 - Working Knowledge
 - c) SL 3 - Familiarity
 - d) SL 4 - No Training Required
- 2) HR(S) - Hours Required to Attain Sufficiency Level
- 3) HR(P) - Hours Entirely Devoted to the Subject
- 4) HR(I) - Hours Subject is Integrated Into Other Subject Areas

COMBINED ARMS SUFFICIENCY STUDY UPDATE

COMBAT SUPPORT SERVICE SCHOOLS

SUBJECT	Proponent	Proponent Sufficiency Level/ Hours Required	SC ^J	MP	MI	CM	CS MEAN
1. Doctrinal Basics							
A. Principles of War							
CGSC	LT SL	2	3	3	1	2	2.3
	HR(S)	2	0	2	2	2	1.5
	HR(P)		0	0	2	1	0.8
	HR(I)		0	0.5	0	0	
	CPT SL	2	2	1	1	1	1.3
	HR(S)	2	2	6	3	3	3.5
CGSC	HR(P)		0	0.2	3	1	1.1
	HR(I)		0	1	0	1	
B. USA AirLand Battle Operational Concept							
CGSC	LT SL	1	3	3	2	2	2.5
	HR(S)	4	4	4	28	6	10.5
	HR(P)		2.7	3.2	26	0.6	8.1
	HR(I)		1	0	2	0.6	
	CPT SL	1	2	1	1	2	1.5
	HR(S)	4	4	10	25	5	11
CGSC	HR(P)		5	6.2	24	3	9.6
	HR(I)		3	1	1	0	
C. Organization/Preparation For Combat							
IN/AR	LT SL	2/2	2	2	2	2	2
	HR(S)	4/12	21	10	4	6	10.3
	HR(P)		22.6	8	0	3	8.4
	HR(I)		0	2	4	3	
	CPT SL	1	2	1	1	2	1.5
	HR(S)	18	3	16	6	4	7.3
IN/AR	HR(P)		4	8	0	0	3
	HR(I)		0	4	6	2	

SUBJECT	Proponent	Proponent Sufficiency Level/ Hours Required	SC ^j	MP	MI	OM	CS MEAN
D. Force Modernization	CGSC	LT SL	3	3	3	3	3
		HR(S)	2	0.5	1	1	1.1
		HR(P)	2	0.5	1	0.5	1
		HR(I)	1	0	0	0.5	
		CPT SL	2	3	2	2	2.3
		HR(S)	12	2	0.5	2	4.1
		HR(P)	14	2	0.5	0	4.1
		HR(I)	1	0	0	2	
E. Strategic Deployment	CGSC	LT SL	3	3	4	2	3
		HR(S)	0	1	0	1	0.5
		HR(P)	0	0	0	0.5	0.1
		HR(I)	0	0	0	0	
		CPT SL	3	3	4	2	3
		HR(S)	2	1	0	1	1
		HR(P)	35	0.2	0	0	8.8
		HR(I)	0	0	0	0	
2. Command, Control and Communications (C3)	CGSC	LT SL	3	2	2	2	2.3
		HR(S)	7	4	6	4	5.3
		HR(P)	2.7	0	2	0.5	1.3
		HR(I)	30	0	4	0.5	
A. Staff Procedures in Combat	CGSC	CPT SL	2	1	1	1	1.3
		HR(S)	2	6	12	8	7
		HR(P)	7	1	0	30	9.5
		HR(I)	14	0	12	0	
B. Decisionmaking	CGSC	LT SL	3	2	1	2	2
		HR(S)	25	4	2	3	8.5
		HR(P)	0	4	0	3	1.8
		HR(I)	0	0	2	3	
		CPT SL	2	1	1	1	1.3
		HR(S)	2	6	3	5	4
		HR(P)	0	1	0	5	1.5
		HR(I)	0	1	3	0	

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SUBJECT	Proponent	Proponent Sufficiency Level/ Hours Required	SC ^J	MP	MI	CM	CS MEAN
C. Plans, Orders, Estimates, Graphics, Records, Reports							
CGSC	LT	SL	2	2	2	2	2.3
	HR(S)	12	10	16	58	10	23.5
	HR(P)		6.3	16	26	3	12.8
	HR(I)		12	2	32	3	
CPT	SL	1	2	1	1	1	1.3
	HR(S)	12	4	16	144	10	43.5
	HR(P)		2	4	24	30	15
	HR(I)		2	3	120	0	
D. Command and Control Communications							
CGSC	LT	SL	2	2	3	2	2.3b
	HR(S)	6	233	2	5	3	4
	HR(P)		213.7	1	5	8	5
	HR(I)		20	0	0	8	
CPT	SL	1	1	1	1	1	1b
	HR(S)	12	326	4	20	6	10.5
	HR(P)		240	3	0	0	3.8
	HR(I)		50	0	20	4	
E. Command, Control, and Communications Countermeasures (C3CM)							
CGSC	LT	SL	3	1	2	3	2.3
	HR(S)	2	1	0.5	5	0.5	1.8
	HR(P)		0	0.5	5	0	1.4
	HR(I)		1	0	0	0	
CPT	SL	3	3	1	1	1	1.5
	HR(S)	2	1	2	20	2	6.3
	HR(P)		0	2	0	0	0.5
	HR(I)		1	0	20	0.5	
F. Airspace Management							
CGSC	LT	SL	4	4	3	2	3
	HR(S)	0	5	0	0.5	1	1.6
	HR(P)		0	0.3	0	0	0.1
	HR(I)		0	0	0.5	0	
CPT	SL	3	3	4	3	1	2.8
	HR(S)	4	0	0	0.5	0.5	0.3
	HR(P)		0	0.3	0	0	0.1
	HR(I)		0	0	0.5	0.1	

CS MEAN

SUBJECT

Proponent

Proponent
Sufficiency Level/
Hours RequiredSC³

MP

MI

CN

3. Intelligence and
Electronic Warfare

A. Tactical Intelligence

MI	LT	SL	3	LT	SL	SC ³	MP	MI	CN	CS MEAN
		HR(S)	2		HR(S)	3	2	1	2	2.5b
		HR(P)			HR(P)	0	2	119	2	1.5
		HR(I)			HR(I)	0	1	1	1	0.8
						0	0	118	1	
	CPT	SL	2	CPT	SL	3	2	1	2	2.3b
		HR(S)	6		HR(S)	1	6	148	3	4.5
		HR(P)			HR(P)	0	1	1	5	1.8
		HR(I)			HR(I)	0	1	147	0	

B. Electronic Warfare

(1) Electronic Warfare
Support Measures (ESM)

MI	LT	SL	3	LT	SL	SC ³	MP	MI	CN	CS MEAN
		HR(S)	1		HR(S)	3	3	2	2	2.8b
		HR(P)			HR(P)	1	1	135	2	1.3
		HR(I)			HR(I)	3.6	0.2	7	0.2	1.3
						0	0	128	0	
	CPT	SL	3	CPT	SL	3	3	3	2	2.8b
		HR(S)	2		HR(S)	1	1	20	2	1.5
		HR(P)			HR(P)	24	0.5	0	0	6.13
		HR(I)			HR(I)	0	0	20	0.2	

(2) Electronic
Countermeasures (ECM)

MI	LT	SL	3	LT	SL	SC ³	MP	MI	CN	CS MEAN
		HR(S)	1		HR(S)	3	3	2	2	2.8b
		HR(P)			HR(P)	1	1	135	2	1.3
		HR(I)			HR(I)	1	0.2	7	0.6	0.7
						0	0	128	0.2	
	CPT	SL	3	CPT	SL	3	3	3	2	2.8b
		HR(S)	2		HR(S)	1	1	20	2	1.5
		HR(P)			HR(P)	0	0.5	0	0	0.1
		HR(I)			HR(I)	1	0	20	0.2	

C. Intelligence Preparation
Of The Battlefield (IPB)

MI	LT	SL	3	LT	SL	SC ³	MP	MI	CN	CS MEAN
		HR(S)	1		HR(S)	3	3	1	2	2.8b
		HR(P)			HR(P)	0	1	54	0.5	0.6
		HR(I)			HR(I)	0	0.4	34	0	0.4
						0	0	20	0	
	CPT	SL	2	CPT	SL	3	3	1	2	2.5b
		HR(S)	6		HR(S)	0	3	53	2	3.3
		HR(P)			HR(P)	0	0.4	33	2	2.6
		HR(I)			HR(I)	0	0	20	1	

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SUBJECT	Proponent	Proponent Sufficiency Level/ Hours Required	SC ^j	MP	MI	CM	CS MEAN
D. Tactical All-Source Intelligence Production							
D. Tactical All-Source Intelligence Production	MI	LT SL HR(S)	3	3	1	2	3b
		LT SL HR(S)	0	0.5	119	0.5	0.3
		HR(P)	0	0.2	119	0	0.1
		HR(I)	0	0	0	0	
		CPT SL HR(S)	3	3	1	2	3b
		CPT SL HR(S)	0	3	70	2	1.3
		HR(P)	0	0.5	70	0	0.1
		HR(I)	0	0	0	0.5	
(1) Signals Intelligence (SIGINT)							
(1) Signals Intelligence (SIGINT)	MI	LT SL HR(S)	3	3	2	2	2.8b
		LT SL HR(S)	0	0.5	41	0.2	0.4
		HR(P)	0	0.2	21	0	0.3
		HR(I)	0	0	20	0	
		CPT SL HR(S)	3	3	2	2	2.8b
		CPT SL HR(S)	0	1	31	1	0.8
		HR(P)	0	0.2	11	0	0.3
		HR(I)	0	0	20	0.1	
(2) Imagery Intelligence (IMINT)							
(2) Imagery Intelligence (IMINT)	MI	LT SL HR(S)	3	3	2	2	3b
		LT SL HR(S)	0	0.5	17	0.2	0.2
		HR(P)	0	0.2	12	0	0.1
		HR(I)	0	0	5	0	
		CPT SL HR(S)	3	3	2	2	3b
		CPT SL HR(S)	0	1	32	1	0.5
		HR(P)	0	0.2	12	0	0.1
		HR(I)	0	0	20	0.1	
(3) Human Intelligence (HUMINT)							
(3) Human Intelligence (HUMINT)	MI	LT SL HR(S)	3	2	2	2	2.5b
		LT SL HR(S)	0	2	8	0.2	0.8
		HR(P)	0	0.2	2	1	0.6
		HR(I)	0	0	6	1	
		CPT SL HR(S)	3	2	2	2	2.5b
		CPT SL HR(S)	0	1	14	1	0.8
		HR(P)	0	0.2	8	0	0.3
		HR(I)	0	0	6	0.1	

SUBJECT

Proponent
Proponent
Sufficiency Level/
Hours RequiredSC^J

MI

MP

CM

CS MEAN

(4) Tactical Counter-
Intelligence (CI)

MI	LT SL	3	LT SL	HR(S)	HR(P)	HR(I)	SC ^J	MP	MI	CM	CS MEAN
							3	3	2	2	2.8b
							0	0.5	14	0.2	0.4
							0	0.1	14	0.1	0.3
							0	0	0	2	
							3	3	1	2	2.8b
							0	1	18	2	1
							0	0.3	18	0	0.3
							0	0	0	0.1	

4. Air Defense

A. Short Range AD System
(SHORAD)

AD	LT SL	3	LT SL	HR(S)	HR(P)	HR(I)	SC ^J	MP	MI	CM	CS MEAN
							3	3	3	2	2.8
							0.2	2	1	1	1.1
							0	0	1	0.2	0.3
							0	0	0	0	
							3	2	2	2	2.3
							1	2	1	1	1.3
							0	0.2	1	0.5	0.4
							0	0.2	0	0	

B. Manportable AD Systems

AD	LT SL	2	LT SL	HR(S)	HR(P)	HR(I)	SC ^J	MP	MI	CM	CS MEAN
							3	3	3	2	2.8
							0	1	0.5	1	0.6
							0	0	0.5	0.2	0.2
							0	0	0	0	
							3	2	2	2	2.3
							1	1	0.5	1	0.9
							0	0.2	0.5	0.5	0.3
							0	0	0	0	

C. Non-Divisional AD Systems

AD	LT SL	3	LT SL	HR(S)	HR(P)	HR(I)	SC ^J	MP	MI	CM	CS MEAN
							4	3	3	2	3
							0	1	0.5	1	0.6
							0	0	0.5	0	0.1
							0	0	0	0	
							4	3	3	2	3
							0	1	0.5	2	0.9
							0	0.2	0.5	1	0.4
							0	0	0	0	

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SUBJECT	Proponent	Proponent Sufficiency Level/ Hours Required	SC ³	MP	NI	CM	CS MEAN
D. Unit Active AD Measures	AD	LT SL	3	2	3	3	2.8
		HR(S)	0.5	1	0.5	1	0.8
		HR(P)	0.5	0	0.25	0.2	0.2
		HR(I)	0.5	0	0.25	0.3	
		CPT SL	3	1	2	2	2
		HR(S)	0	1	0.5	2	0.9
		HR(P)	0	0	0.25	0	0.1
		HR(I)	0.5	0	0.25	0.5	
E. Unit Passive AD Measures	AD	LT SL	3	2	3	3	2.8
		HR(S)	1	2	1	1	1.3
		HR(P)	1	4	0.25	0.2	1.4
		HR(I)	0.5	0.5	0.25	0.3	
		CPT SL	2	1	1	2	1.5
		HR(S)	2	2	2	2	2
		HR(P)	0	0	0.25	0	0.1
		HR(I)	1	0.5	0.25	0.5	
F. AD Priority Support In AirLand Battle	AD	LT SL	4	3	3	3	3.3
		HR(S)	0	0.5	0.5	2	0.8
		HR(P)	0	0.2	0	0	0.1
		HR(I)	0	0	0.5	0	
		CPT SL	4	3	3	1	2.8
		HR(S)	0	0.5	0.5	2	0.8
		HR(P)	0	0.5	0	0.8	0.3
		HR(I)	0	0.4	0.5	0	
G. AD Land Space Requirements In MBA and CFA	AD	LT SL	4	4	3	3	3.5
		HR(S)	0	0	0.5	1	0.4
		HR(P)	0	0	0	0	0
		HR(I)	0	0	0.5	0	
		CPT SL	4	4	3	1	3
		HR(S)	0	0	0.5	2	0.6
		HR(P)	0	0	0	0.2	0.1
		HR(I)	0	0	0.5	0	

CS MEAN

SUBJECT

Proponent
Proponent
Sufficiency Level/
Hours RequiredSC^J

MP

MI

CM

(5) Operations During
Limited Visibility
And Night Operations

IN/AR	LT	SL	2/3	LT	SL	HR(S)	HR(P)	HR(I)	SC ^J	MP	MI	CM	CS MEAN
	LT	SL	80/12	LT	SL	HR(S)	HR(P)	HR(I)	3	2	1	2	2
									1	8	38	10	14.3
									0	2	2	2	3
									0	5	36	13	
	CPT	SL	2/2	CPT	SL	HR(S)	HR(P)	HR(I)	3	1	1	1	1.5
			40/18						0.5	4	1	14	4.9
									0	4	0	0	1
									0	3	1	0.5	

(6) Smoke Operations

FA/CH	LT	SL	2	LT	SL	HR(S)	HR(P)	HR(I)	SC ^J	MP	MI	CM	CS MEAN
	LT	SL	4	LT	SL	HR(S)	HR(P)	HR(I)	3	3	3	1	2.5
									0	2	2	75	2
									0.2	4	2	93	2.6
									0.4	0	0	0.2	
	CPT	SL	2	CPT	SL	HR(S)	HR(P)	HR(I)	3	2	2	1	2
			4						0	2	7	30	3.3
									1	0	5	15	5.3
									0.4	0	2	5	

(7) Patrolling

IN	LT	SL	2	LT	SL	HR(S)	HR(P)	HR(I)	SC ^J	MP	MI	CM	CS MEAN
	LT	SL	40	LT	SL	HR(S)	HR(P)	HR(I)	3	2	1	2	2
									0	12	46	4	15.5
									0	16	6	16	9.5
									0	0	40	48	
	CPT	SL	2	CPT	SL	HR(S)	HR(P)	HR(I)	3	1	1	2	1.8
			1						0	2	0	3	1.3
									0	0	0	2	0.5
									0	0	0	0	

B. Threat

(1) Mission and Role of
Threat Armed Forces

CACDA	LT	SL	2	LT	SL	HR(S)	HR(P)	HR(I)	SC ^J	MP	MI	CM	CS MEAN
	LT	SL	0.5	LT	SL	HR(S)	HR(P)	HR(I)	3	3	2	2	2.5
									0.5	1	1	2	1.1
									0.5	2	1	0.3	0.9
									2	0	0	0.2	
	CPT	SL	1	CPT	SL	HR(S)	HR(P)	HR(I)	3	2	2	2	2.3
			1						2	2	1	2	1.8
									2	2	1	2	1.8
									3	0	0	0	

SUBJECT

Proponent
Proponent
Sufficiency Level/
Hours Required

CS MEAN

SC^j MP MI CM

(2) Organization/Equipment	CACDA	LT	SL	1	LT	SL	3	3	1	2	2.3b
		HR(S)	2		HR(S)	1.4	0.5	2	15	1	1.4
					HR(P)	1.9	0.5	1	10	4	1.9
					HR(I)		1	0	5	1	
(3) Offensive Operations	CACDA	CPT	SL	1	CPT	SL	3	2	1	1	1.8b
		HR(S)	3		HR(S)	3	1	4	15	4	3
					HR(P)	2.5	2	1	10	4	2.5
					HR(I)		1	0	5	0	
(4) Defensive Operations	CACDA	LT	SL	1	LT	SL	3	3	1	2	2.3b
		HR(S)	2		HR(S)	1.6	0.5	1	9	3	1.6
					HR(P)	0.9	0.5	0.5	8	0.5	0.9
					HR(I)		1	0	1	0	
(5) Combat Support	CACDA	CPT	SL	1	CPT	SL	3	2	1	1	1.8b
		HR(S)	4		HR(S)	3	0	4	9	4	3
					HR(P)	2.5	1	1	8	4	2.5
					HR(I)		1	0	1	0	
(6) Defensive Operations	CACDA	LT	SL	2	LT	SL	3	3	1	2	2.5b
		HR(S)	0.5		HR(S)	1.3	0.5	1	5	3	1.3
					HR(P)	0.4	0.5	0	4	0.5	0.4
					HR(I)		1	0	1	0	
(7) Combat Support	CACDA	CPT	SL	1	CPT	SL	3	2	1	1	1.8b
		HR(S)	1		HR(S)	3	0	4	5	2	1.8
					HR(P)	1	1	0	4	2	1
					HR(I)		2	0	1	0	
(8) Combat Support	CACDA	LT	SL	2	LT	SL	3	3	1	2	2.5b
		HR(S)	1		HR(S)	2.8	3	3	50	4	2.8
					HR(P)	1.3	0.5	3	12	0.5	1.3
					HR(I)		1	0	38	0	
(9) Combat Support	CACDA	CPT	SL	1	CPT	SL	2	2	1	1	1.5b
		HR(S)	2		HR(S)	4	5	4	25	5	4
					HR(P)	3.5	3	3	9	5	3.5
					HR(I)		2	0	16	0	

SUBJECT	Proponent	Proponent Sufficiency Level/ Hours Required	SC ^j	MP	MI	CM	CS MEAN	
(6) Special Operations	CACDA	LT SL 2 LT SL	3	3	2	2	2.5b	
		HR(S) 1 HR(S)	0.5	2	5	1	1.1	
		HR(P) HR(P)	0.4	1	5	0	0.6	
		HR(I) HR(I)	1	0	0	0		
		CPT SL 1 CPT SL	3	2	1	2	2b	
		HR(S) 2 HR(S)	0.5	4	5	0.5	1.8	
		HR(P) HR(P)	0	2	5	0	1	
		HR(I) HR(I)	1	0	0	0.5		
		C. Offensive Operations						
		(1) Doctrine (Concepts) and Fundamentals	IN/AR	LT SL 1/2 LT SL	3	3	2	2
HR(S) 12/4 HR(S)	1			4	3	3	2.8	
HR(P) HR(P)	0			6	2	0.7	2.2	
HR(I) HR(I)	0			0	1	0		
CPT SL 1/2 CPT SL	3			2	1	1	1.8	
		HR(S) 8/6 HR(S)	5	6	1	4	4	
		HR(P) HR(P)	0	6	1	3.5	2.6	
		HR(I) HR(I)	0	0	0	0		
		(2) Movement to Contact						
		IN/AR	LT SL 1/3 LT SL	3	2	2	2	2.3
HR(S) 12/8 HR(S)	0		2	2	0.5	1.1		
HR(P) HR(P)	2.6		1	2	0.5	1.5		
HR(I) HR(I)	1		0.2	0	0			
CPT SL 1/2 CPT SL	3		1	1	2	1.8		
		HR(S) 8/12 HR(S)	0.5	4	1	1	1.6	
		HR(P) HR(P)	3	1	1	0.5	1.4	
		HR(I) HR(I)	2	0.5	0	0		
		(3) Hasty Attack						
		IN/AR	LT SL 1/3 LT SL	3	2	2	2	2.3
HR(S) 12/8 HR(S)	0		2	1	0.5	0.9		
HR(P) HR(P)	0		1	1	0.5	1.4		
HR(I) HR(I)	0		0.5	0	0			
CPT SL 1/2 CPT SL	3		1	1	2	1.8		
		HR(S) 8/12 HR(S)	0.5	2	1	1	1.1	
		HR(P) HR(P)	0	6	1	0.5	1.9	
		HR(I) HR(I)	0	0.5	0	0		

SUBJECT

Proponent
Sufficiency Level/
Hours Required

Proponent

SC^J

MP

MI

CM

CS MEAN

(4) Deliberate Attack

IN/AR LT SL 1/2 LT SL
HR(S) 12/8 HR(S)
HR(P)
HR(I)CPT SL 1/2 CPT SL
HR(S) 1/12 HR(S)
HR(P)
HR(I)3 2 2 2
0 4 1 1
0 8 1 2.3
0 0 0 02.3
1.5
2.8

(5) Exploitation

IN/AR LT SL 2/3 LT SL
HR(S) 8/8 HR(S)
HR(P)
HR(I)CPT SL 2/3 CPT SL
HR(S) 8/12 HR(S)
HR(P)
HR(I)3 3 2 2
0 0.5 1 0.5
0 0.5 1 0.4
0 0 0 02.5
0.5
0.5

(6) Pursuit

IN/AR LT SL 2/3 LT SL
HR(S) 8/8 HR(S)
HR(P)
HR(I)CPT SL 2/3 CPT SL
HR(S) 8/12 HR(S)
HR(P)
HR(I)3 3 2 2
0 0.5 1 0.5
0 0 1 0.4
0 0 0 02.5
0.5
1.6(7) Approach (Relief)
of Encircled ForcesIN/AR LT SL 2/3 LT SL
HR(S) 6/8 HR(S)
HR(P)
HR(I)CPT SL 2/3 CPT SL
HR(S) 8/12 HR(S)
HR(P)
HR(I)3 3 4 2
0 0 1 0.5
0 0 0 0
0 0 0 03
0.4
0

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SUBJECT	Proponent	Proponent Sufficiency Level/ Hours Required	SC ¹	MP	MI	CH	CS MEAN
(8) Reconnaissance in Force IN/AR							
	LT SL	2/3	3	4	4	2	3.3
	HR(S)	4/8	0	0	0	0.5	0.2
	LT SL		0	0	0	0.4	0.1
	HR(P)		0	0	0	0	
	HR(I)		0	0	0	0	
CPT SL 2/3							
	HR(S)	4/12	3	4	3	2	3
	LT SL		0.5	0	0	1	0.4
	HR(P)		0	0	0	0.5	0.1
	HR(I)		0	0	0	0	
D. Defensive Operations							
(1) Doctrine (Concepts) and Fundamentals							
(a) Covering Force Area IN/AR							
	LT SL	1/2	3	3	2	2	2.5
	HR(S)	1/1	k	0	2	2	2
	LT SL		0	0	2	1	0.8
	HR(P)		1	0	0	0	
	HR(I)						
CPT SL 1/2							
	HR(S)	2/2	3	2	1	1	1.8
	LT SL		k	2	2	2	2
	HR(P)		n	1	2	1	1
	HR(I)		n	1	0	0	
(b) Main Battle Area IN/AR							
	LT SL	1/2	3	3	2	2	2.5
	HR(S)	1/1	k	4	2	2	2.7
	LT SL		0	0.5	2	1	1.2
	HR(P)		1	0.2	0	0	
	HR(I)						
CPT SL 1/2							
	HR(S)	2/2	3	2	1	1	1.8
	LT SL		k	6	2	3	3.7
	HR(P)		n	2	2	1	1.7
	HR(I)		n	0.2	0	0	
(c) Rear Area IN/AR							
	LT SL	1/2	3	2	2	2	2.3
	HR(S)	1/1	k	4	2	2	2.7
	LT SL		0	1.4	2	1	
	HR(P)		1	3	0	0	
	HR(I)						
CPT SL 1/2							
	HR(S)	2/2	3	2	1	1	1.6
	LT SL		k	6	2	2	3.3
	HR(P)		n	2	2	1	1.7
	HR(I)		n	3	0	0	

SUBJECT

Proponent

Proponent
Sufficiency Level/
Hours Required

CS MEAN

SC^j

MP

MI

CH

(2) Defense in Sector

IN/AR

LT SL
HR(S)1/3
8/4

LT

SL
HR(S)
HR(P)
HR(I)

3

3

2

2

2.5

1.6

0.6

CPT SL
HR(S)1/2
9/6CPT SL
HR(S)
HR(P)
HR(I)

3

2

1

1

1.8

1.1

0.9

(3) Defense from Battle
Positions

(a) Linear

IN/AR

LT SL
HR(S)1/3
6/4

LT

SL
HR(S)
HR(P)
HR(I)

3

3

3

2

2.8

1.5

1.2

CPT SL
HR(S)1/3
4/6CPT SL
HR(S)
HR(P)
HR(I)

3

2

2

2

2.3

1.3

1.3

(b) Perimeter

IN/AR

LT SL
HR(S)1/3
6/4

LT

SL
HR(S)
HR(P)
HR(I)

3

2

3

2

2.5

3.8

0.1

CPT SL
HR(S)1/3
4/6CPT SL
HR(S)
HR(P)
HR(I)

3

1

2

2

2

4.4

0

(4) Defense In-Depth

IN/AR

LT SL
HR(S)1/3
6/4

LT

SL
HR(S)
HR(P)
HR(I)

3

3

3

2

2.6

1.3

0.7

CPT SL
HR(S)1/3
4/6CPT SL
HR(S)
HR(P)
HR(I)

3

2

2

2

2.3

1.6

1.3

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SUBJECT	Proponent	Proponent Sufficiency Level/ Hours Required	SC ¹	MP	MI	CH	CS MEAN
(5) Strong Points							
	IN/AR	LT SL 1/3 HR(S) 2/2	3 0 0 0	3 0.5 0 0	3 1 1 0	2 1 0.5 0	2.8 0.6 0.4
		CPT SL 1/3 HR(S) 4/2	3 0 0 0	2 0.5 1 0	2 1 1 0	2 1 0.1 0	2.3 0.6 0.5
(6) Counterattack							
	IN/AR	LT SL 1/3 HR(S) 4/2	3 0 0 0	3 1 0.5 0	3 1 1 0	2 2 0.5 0	2.8 1 0.5
		CPT SL 1/3 HR(S) 6/2	3 0 0 0	2 1 1 0	2 1 1 0	2 1 0.5 0	2.3 0.8 0.6
(7) Breakout/Linkup							
	IN/AR	LT SL 2/3 HR(S) 4/2	3 0 0 0	3 1 0 0	3 0.5 0.5 0	2 2 0 0	2.8 0.9 0.1
		CPT SL 1/2 HR(S) 6/2	3 0 0 0	2 1 0 0	2 0.5 0.5 0	2 1 0.2 0	2.3 0.6 0.2
E. Retrograde Operations							
(1) Delay							
	IN/AR	LT SL 1/2 HR(S) 6/2	3 0.3 0.3 0.5	3 0.5 0 0	3 2 2 0	2 1 0.2 0.2	2.8 0.9 0.6
		CPT SL 1/2 HR(S) 8/2	3 1 0 0.5	2 1 0.5 0	2 2 2 0	2 1 0 0.2	2.3 1.3 0.6

(2) Withdrawal	IN/AR	LT SL HR(S)	1/3 4/2	LT SL HR(S) HR(P) HR(I)	3 0.3 0.4 0.5	3 0.5 0 0	3 1 1 0	2 1 0.2 0	2.8 0.7 0.4
(3) Retirement	IN/AR	CPT SL HR(S)	1/3 4/2	CPT SL HR(S) HR(P) HR(I)	3 0 0 0.5	2 1 0.5 0.2	2 1 1 0	2 1 0 0.2	2.3 1 0.4
(1) Doctrine (Concepts) and Fundamentals	AR	LT SL HR(S)	2 4	LT SL HR(S) HR(P) HR(I)	3 0 0 0	3 2 0 0	3 0.25 0.25 0	2 2 0.1 0	2.8 1.1 0.1
(2) Reconnaissance	AR	CPT SL HR(S)	2 6	CPT SL HR(S) HR(P) HR(I)	3 1 0 0	3 2 1 0	2 0.25 0.25 0	2 2 0 0.2	2.5 1.3 0.3
(2) Reconnaissance	AR	LT SL HR(S)	3 1	LT SL HR(S) HR(P) HR(I)	3 0 0 0	2 10 8 0.2	3 0.25 0.25 0	2 3 0.1 0	2.5 3.3 2.1
(2) Reconnaissance	AR	CPT SL HR(S)	2 1	CPT SL HR(S) HR(P) HR(I)	3 0 0 0	1 6 0 0.3	1 0.25 0.25 0	2 2 0 0.1	1.8 2.1 0.1

SUBJECT

Proponent
Sufficiency Level/
Hours RequiredSC^J

MP

MI

CM

CS MEAN

(2) FA Organization,
Command and Control

FA	LT	SL	3	LT	SL	HR(S)	HR(P)	HR(I)	SC ^J	MP	MI	CM	CS MEAN
									3	2	3	1	2.3
									0.5	2	2	4	2.1
									0	10	2	0.5	3.1
									0	0	0	0	
	CPT	SL	3	CPT	SL	HR(S)	HR(P)	HR(I)	3	2	2	1	2
									1	3	5	5	3.5
									0	1	5	2.8	2.2
									0	0	0	0	

(3) FA Priority Support in
AirLand Battlefield

FA	LT	SL	4	LT	SL	HR(S)	HR(P)	HR(I)	SC ^J	MP	MI	CM	CS MEAN
									4	3	3	3	3.3
									0	1	1	2	1
									0	0.5	1	0	0.4
									0	0	0	0	
	CPT	SL	3	CPT	SL	HR(S)	HR(P)	HR(I)	4	3	3	1	2.8
									0	1	1	1	0.8
									0	1.5	1	0.5	0.8
									0	0	0	0	

(4) FA Land Space
Requirements in MBA/CFA FA

FA	LT	SL	4	LT	SL	HR(S)	HR(P)	HR(I)	SC ^J	MP	MI	CM	CS MEAN
									4	4	3	3	3.5
									0	0	2	1	0.8
									0	1	2	0	0.8
									0	0	0	0	
	CPT	SL	3	CPT	SL	HR(S)	HR(P)	HR(I)	4	4	3	1	3
									0	0	2	1	0.8
									0	1	2	0	0.8
									0	0	0	0.2	

B. Close Air Support
(CAS AND BAI)

CGSC	LT	SL	3	LT	SL	HR(S)	HR(P)	HR(I)	SC ^J	MP	MI	CM	CS MEAN
									3	3	2	2	2.5
									2	3	3	1	2.3
									0	3	1.5	0.2	1.6
									0	2	1.5	0.3	
	CPT	SL	2	CPT	SL	HR(S)	HR(P)	HR(I)	3	2	2	1	2
									1	3	2	3	2.3
									0	1	1	0.5	0.8
									0	2	1	0	

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SUBJECT	Proponent	Proponent Sufficiency Level/ Hours Required	SC ^J	MP	MI	CM	CS MEAN
C. Suppression of Enemy AD (SEAD)							
	CGSC	LT SL HR(S)	4	3	3	2	3
		LT SL HR(S)	0	0.5	0.5	1	0.5
		HR(P)	0	0	0	0	0
		HR(I)	0	0	0.5	0.1	
	CPT SL	3	4	3	2	2	2.8
	HR(S)	2	0	1	0.5	0.5	0.5
	HR(P)		0	0	0	0	0
	HR(I)		0	1	0.5	0.1	
D. Nuclear and Chemical Weapons Employment (Consolidated Entry--See Annex H, Appendix 3)							
	CGSC/FA/CM	LT SL HR(S)	3	3	3	1	2.5
		LT SL HR(S)	6.4	44.5	37.75	208	74.2
		HR(P)	3.6	11.2	18.75	163.2	49.2
		HR(I)	1.6	0	20.5	40.5	
	CPT SL	3	3	3	2	1	2.3
	HR(S)		38	59.5	102.25	402	105.4
	HR(P)		17.4	22.2	28.75	219	71.8
	HR(I)		1.6	0	74.5	50	
7. Engineer Operations (Combat Support)							
A. Mobility							
	EN	LT SL HR(S)	3	3	3	2	2.8
		LT SL HR(S)	0	1	0.5	1	0.6
		HR(P)	0	1	0	0.5	0.4
		HR(I)	0	0	0.5	0.5	
	CPT SL	3	3	3	3	1	2.5
	HR(S)	4	1	1	0.5	3	1.4
	HR(P)		0	2	0	1	0.6
	HR(I)		0	0	0.5	0	
B. Counter mobility							
	EN	LT SL HR(S)	4	3	3	2	3
		LT SL HR(S)	0	1	0.5	1	0.6
		HR(P)	0	0.5	0	0.5	0.3
		HR(I)	0	0	0.5	0.5	
	CPT SL	3	4	3	3	1	2.8
	HR(S)	4	0	1	0.5	3	1.1
	HR(P)		0	0.5	0	2.5	0.8
	HR(I)		0	0	0.5	0	

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CS MEAN

SUBJECT

Proponent

Proponent
Sufficiency Level/
Hours RequiredSC^j

MP

HI

OH

C. Survivability

EN	LT	SL	3	LT	SL	HR(S)	HR(P)	HR(I)	SC ^j	MP	HI	OH	CS MEAN
									4	3	3	2	3
									0	1	0.5	1	0.6
									0	0	0	0	0.1
									0	0	0.5	0	

CPT	SL	3	CPT	SL	HR(S)	HR(P)	HR(I)	SC ^j	MP	HI	OH	CS MEAN
								4	3	3	2	3
								0	1	0.5	1	0.6
								0	0.5	0	1	0.4
								0	0	0.5	0	

D. General Engineering

EN	LT	SL	3	LT	SL	HR(S)	HR(P)	HR(I)	SC ^j	MP	HI	OH	CS MEAN
									3	3	3	2	2.8
									0	1	0.5	1	0.6
									0	0.2	0	0.3	0.1
									0	0	0.5	0	

CPT	SL	3	CPT	SL	HR(S)	HR(P)	HR(I)	SC ^j	MP	HI	OH	CS MEAN
								3	3	3	1	2.5
								1	1	0.5	2	1.1
								0	0.2	0	0.2	0.1
								0	0	0.5	0	

8. Army Aviation

A. Combat Aviation

AV	LT	SL	3	LT	SL	HR(S)	HR(P)	HR(I)	SC ^j	MP	HI	OH	CS MEAN
									3	3	3	2	2.8
									0.2	1	1	2	1.1
									0	2	0.5	0.2	0.7
									0.5	0	0.5	0	

CPT	SL	2	CPT	SL	HR(S)	HR(P)	HR(I)	SC ^j	MP	HI	OH	CS MEAN
								3	3	3	2	2.8
								1	1	1	3	1.5
								2	1	0.5	2	1.4
								1	0.5	0.5	0	

B. Combat Support Aviation

AV	LT	SL	3	LT	SL	HR(S)	HR(P)	HR(I)	SC ^j	MP	HI	OH	CS MEAN
									3	3	3	2	2.8
									0.2	1	0.5	1	0.7
									0	0.2	0.5	0.1	0.2
									0.5	0	0	0	

CPT	SL	2	CPT	SL	HR(S)	HR(P)	HR(I)	SC ^j	MP	HI	OH	CS MEAN
								3	3	3	2	2.8
								2	1	0.5	2	1.4
								2	0.2	0.5	0.5	0.8
								1	0.5	0	0	

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CS MEAN

SUBJECT

Proponent
Proponent
Sufficiency Level/
Hours Required

SC³

MI

MP

CH

B. Transportation Operations

(1) Convoy Operations TC LT SL 2 LT SL 2.8
HR(S) 4 HR(S) 4
HR(P) 4 HR(P) 4
HR(I) 2 HR(I) 0.5 1.7

CPT SL 2 CPT SL 2 2 2 2
HR(S) 1 HR(S) 3 6
HR(P) 4 HR(P) 0 1
HR(I) 0.5 HR(I) 0

(2) Movement Control TC LT SL 3 3 3

HR(S) 2 HR(S) 1 1.3
HR(P) 1 HR(P) 0 0.3
HR(I) 0 HR(I) 0.5

CPT SL 2 CPT SL 2 2.5
HR(S) 1 HR(S) 2 1.5
HR(P) 0 HR(P) 0 0.5
HR(I) 0 HR(I) 0

C. Field Services Operations CM LT SL 3 3 2.3

HR(S) 3 HR(S) 1 0.8
HR(P) 0 HR(P) 0 1
HR(I) 0 HR(I) 0.1

CPT SL 3 CPT SL 2 2.5
HR(S) 4 HR(S) 1 0.8
HR(P) 0 HR(P) 0 0
HR(I) 0 HR(I) 0.2

D. Maintenance Operations

(1) Recovery/Evacuation OD LT SL 3 3 2.3

HR(S) 4 HR(S) 1 1.1
HR(P) 2 HR(P) 0 1
HR(I) 0 HR(I) 0.5

CPT SL 2 CPT SL 2 2
HR(S) 3 HR(S) 1 1.5
HR(P) 0 HR(P) 0 0.3
HR(I) 0 HR(I) 0.5

WPC822NE/HAR83

SUBJECT	Proponent	Proponent Sufficiency Level/ Hours Required	SC ^j	MP	MI	CM	CS MEAN
(2) Command and Staff Management of Preventive Maintenance							
OD	LT	SL	2	LT	SL	2	2.3
		HR(S)	4		HR(S)	1	1.7
					HR(P)	1	0.9
					HR(I)	0	
	CPT	SL	1	CPT	SL	2	2
		HR(S)	3		HR(S)	1	2
					HR(P)	4	7.8
					HR(I)	0	
(3) The Army Maintenance Management System (TAMMS)							
OD	LT	SL	3	LT	SL	2	2
		HR(S)	3		HR(S)	2	8
					HR(P)	6	9.3
					VR(I)	0	
	CPT	SL	2	CPT	SL	1	1.5
		HR(S)	4		HR(S)	3	7.5
					HR(P)	3	6.3
					HR(I)	0	
E. Personnel and Administration Operations							
(1) Manpower Accountability SSC							
	LT	SL	2	LT	SL	2	2.5
		HR(S)	4		HR(S)	1	0.6
					HR(P)	0	0.3
					HR(I)	0	
	CPT	SL	1	CPT	SL	2	2
		HR(S)	6		HR(S)	1	1.3
					HR(P)	0	0.3
					HR(I)	0	
(2) Casualty Reporting SSC							
	LT	SL	2	LT	SL	2	2.5
		HR(S)	2		HR(S)	0.5	0.5
					HR(P)	0	0.3
					HR(I)	0	
	CPT	SL	2	CPT	SL	2	2.3
		HR(S)	2		HR(S)	1	0.9
					HR(P)	0	0
					HR(I)	0	

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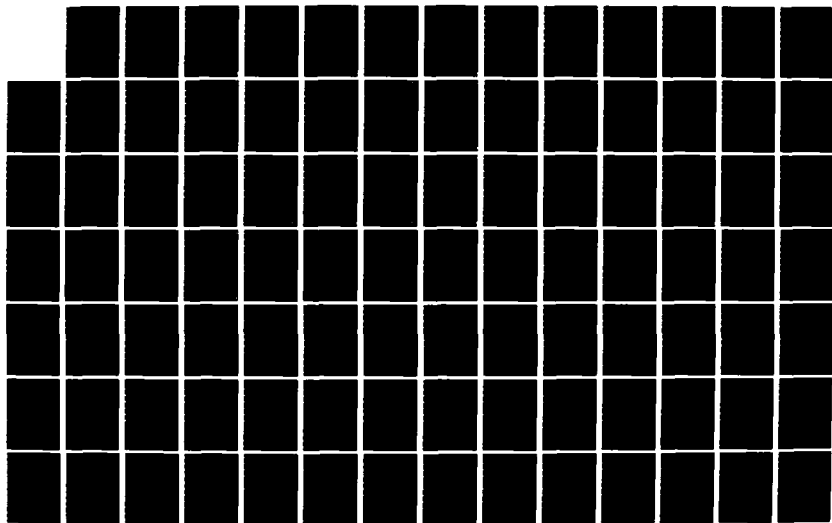
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COMBINED ARMS CENTER FORT LEAVENWORTH KS 07 APR 83
SBI-AD-E750 847

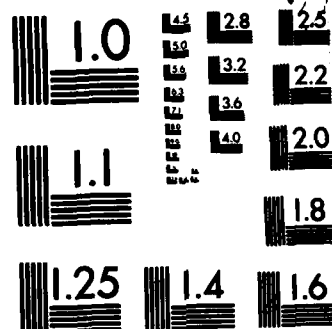
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UNCLASSIFIED

F/G 5/9

NL





MICROCOPY RESOLUTION TEST CHART
NATIONAL BUREAU OF STANDARDS-1963-A

SUBJECT

Proponent

Proponent
Sufficiency Level/
Hours RequiredSC^j

MP NI CH

CS MEAN

(3) Replacements

SSC LT SL 2 LT SL
HR(S) 4 HR(S)
HR(P) 0
HR(I) 0

CPT SL 2 CPT SL
HR(S) 4 HR(S)
HR(P) 0
HR(I) 0

3 2 2 3 2
0 1 0.5 0.5
0 0 0 0
0 0 0.5 0

3 1 2 2
0 2 0.5 1
0 0 0 0
0 0 0.5 0

2.5
0.5
0

F. Medical Services

(1) First Aid

AHS LT SL 1 LT SL
HR(S) 4 HR(S)
HR(P) 7.7
HR(I) 0.5

CPT SL 1 CPT SL
HR(S) 4 HR(S)
HR(P) 5
HR(I) 0.5

2 2 2 2 2
8 8 2 8
7.7 10 0 4
0.5 0 2 2

2 2 2 2 2
3 8 1 8
5 0 0 0
0.5 0 1 3

2
6.5
5.4

(2) Medical Evacuation

AHS LT SL 2 LT SL
HR(S) 2 HR(S)
HR(P) 0
HR(I) 0

CPT SL 1 CPT SL
HR(S) 2 HR(S)
HR(P) 0
HR(I) 0

3 2 2 2 2
0 2 1 1
0 0.2 1 1
0 0 1 1

3 2 2 2 2
0 2 0 2
0 0.2 0 0
0 0 0 0.2

2.3
1
0.6G. Reconstitution of
Ineffective Units

LOGGEN

LOGGEN LT SL 2 LT SL
HR(S) 2 HR(S)
HR(P) 0
HR(I) 0

CPT SL 1 CPT SL
HR(S) 4 HR(S)
HR(P) 0
HR(I) 0

4 2 3 3 3
0 1 1 0.5
0 1 0 0
0 0 1 0

3 2 2 2 2
1 1 1 1
0 2 0 0
0 0 0 0

3
0.6
0.3

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SUBJECT	Proponent	Proponent Sufficiency Level/ Hours Required	SC ³	MP	MI	CM	CS MEAN
10. Special/Other Operations							
A. Low Intensity Conflict							
(1) Counterinsurgency Operations							
IN	LT	SL	3	2	3	2	2.5
		HR(S)	4	8	1	1	2.5
		HR(P)	0	0	0	0	0
		HR(I)	0	0	1	0	
	CPT	SL	3	2	2	2	2.3
		HR(S)	4	8	1	1	2.5
		HR(P)	0	0	0	0	0
		HR(I)	0	0	1	0	
(2) Counterterror Operations							
MP/IMA/COSC	LT	SL	2/3	2	2	2	2.3
		HR(S)	20/1	20	4	1	6.3
		HR(P)	0	6	4	0	2.5
		HR(I)	0	0	0	0	
	CPT	SL	1/2	1	2	2	2
		HR(S)	36/2	36	8	1	11.3
		HR(P)	0	32	8	0	10
		HR(I)	0	0	0	0	
(3) Foreign Internal Defense							
IMA	LT	SL	3	4	4	4	4
		HR(S)	1	0	0	0	0
		HR(P)	0	0	0	0	0
		HR(I)	0	0	0	0	
	CPT	SL	2	4	3	3	3.5
		HR(S)	2	0	0	0.5	0.1
		HR(P)	0	0	0	0	0
		HR(I)	0	0	0	0	
B. Special Forces Operations							
IMA	LT	SL	3	3	3	2	2.8
		HR(S)	1	1	0.5	0.5	0.5
		HR(P)	0	0	0	0	0
		HR(I)	0	0	0.5	0	
	CPT	SL	2	3	2	2	2.5
		HR(S)	2	1	0.5	1	0.5
		HR(P)	0	0	0	0	0
		HR(I)	0	0	0.5	0	

SUBJECT

Proponent

Proponent
Sufficiency Level/
Hours Required

C. Unconventional Warfare

IMA

LT SL
HM(S) 1LT SL
HM(S)
HM(P)
HM(I)SC^J

HP

MI

CN

CS MEAN

3.3
0.3
0

D. Psychological Operations

IMA

LT SL
HM(S) 3LT SL
HM(S)
HM(P)
HM(I)SC^J

HP

MI

CN

3.3
0.5
0

E. Civil Affairs

IMA

LT SL
HM(S) 3LT SL
HM(S)
HM(P)
HM(I)SC^J

HP

MI

CN

2.8
0.5
0

F. Amphibious Operations

IN

LT SL
HM(S) 2LT SL
HM(S)
HM(P)
HM(I)SC^J

HP

MI

CN

2.3
1.3
0.5

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SUBJECT	Proponent	Proponent Sufficiency Level/ Hours Required	SC ^j	MP	MI	CM	CS MEAN
G. Airborne Operations	IN	LT SL 3	3	3	3	2	2.8
		HR(S) 1	0	1	1	1	0.6
			0	0.2	2	0.5	0.7
	CPT	SL 3	3	3	2	2	2.5
		HR(S) 9	1	1	0	1	0.8
			0	1.3	0	0.2	0.4
H. Airmobile Operations	IN/AV	LT SL 1/3	3	2	3	2	2.5
		HR(S) 10/9	0	2	1	1	1
			0	1	2	0.5	0.9
	CPT	SL 1	3	2	2	2	2.3
		HR(S) 10	1	2	1	1	1.3
			0	1	1	0.2	0.6
I. Ranger Operations	IN	LT SL 3	3	3	4	2	3
		HR(S) 1	0	0	0	1	0.3
			0	0	0	0	0
	CPT	SL 3	3	3	3	2	2.8
		HR(S) 1	0	0	0	1	0.3
			0	0.5	0	0	0.1
J. Operations in Special Terrain (1) Desert	IN/AR	LT SL 3/3	3	3	3	2	2.8
		HR(S) 1/1	0.5	0	1.5	2	1
			0.2	0.2	1.5	0	0.5
	CPT	SL 3/2	3	3	2	2	2.5
		HR(S) 7/2	0.5	0	0.75	2	0.8
			0.5	0.2	0.75	0.5	0.4

CS MEAN

SUBJECT

Proponent

Proponent
Sufficiency Level/
Hours Required

SC^J

MP

HI

CH

(2) Jungle

IN

LT SL
HR(S) 3

LT SL

HR(S)
HR(P)
HR(I)

3

3

3

2

2.8
1
0.5

(3) Mountain

IN

LT SL
HR(S) 3

LT SL

HR(S)
HR(P)
HR(I)

3

3

3

2

2.8
0.8
0.5

CPT SL
HR(S) 7

CPT SL

HR(S)
HR(P)
HR(I)

3

3

2

2

2.5
0.8
0.5

(4) Northern Terrain

IN

LT SL
HR(S) 3

LT SL

HR(S)
HR(P)
HR(I)

3

3

3

2

2.8
0.8
0.4

CPT SL
HR(S) 7

CPT SL

HR(S)
HR(P)
HR(I)

3

3

2

2

2.5
0.6
0.4

(5) Military Operations in
Urban Terrain (MOUT)

IN

LT SL
HR(S) 15

LT SL

HR(S)
HR(P)
HR(I)

3

2

3

2

2.5
3.4
2

CPT SL
HR(S) 27

CPT SL

HR(S)
HR(P)
HR(I)

3

1

2

2

2
2.4
2.7

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CS MEAN

SUBJECT	Proponent	Proponent Sufficiency Level/ Hours Required	SC ³	NP	NI	CH	CS MEAN
K. River Crossing	IM/AR/EN	LT SL 2/2/3 LT SL	3	2	2	2	2.3
		HR(S) 4/3/4 HR(S)	0	4	1	2	1.6
		HR(P) HR(P)	0	2	0	0	0.5
		HR(I) HR(I)	0	0	1	0	
L. Tactical Deception Operations	CJSC	CPT SL 2/2/3 CPT SL	3	1	2	2	2
		HR(S) 7/3/8 HR(S)	2	6	0.5	3	2.9
		HR(P) HR(P)	0	2	0	0	0.5
		HR(I) HR(I)	0	0	0.5	1	
M. Rear Area Combat Operations	CJSC	LT SL 1 LT SL	3	3	3	2	2.8
		HR(S) 10 HR(S)	0	1	3	1	1.3
		HR(P) HR(P)	0	0	3	0.3	0.8
		HR(I) HR(I)	0	0	0	0	
(1) Organization for Combat	CJSC/MP	CPT SL 1 CPT SL	3	2	1	1	1.8
		HR(S) 10 HR(S)	0.5	2	2	2	1.6
		HR(P) HR(P)	0	0	2	0.5	0.6
		HR(I) HR(I)	0	0	0	0	
(2) Perimeter Defense	CJSC/MP	LT SL 4/2 LT SL	3	2	4	3	3b
		HR(S) 0/3 HR(S)	0	3	0	0.5	0.9
		HR(P) HR(P)	0.5	5	0	0.5	1
		HR(I) HR(I)	0.2	0	0	0	
(2) Perimeter Defense	CJSC/MP	CPT SL 3/1 CPT SL	3	1	3	2	2.3
		HR(S) 2/3 HR(S)	1	3	0.5	1	1.4
		HR(P) HR(P)	0	7	0	0	0.6
		HR(I) HR(I)	1	0	0.5	0.2	
(2) Perimeter Defense	CJSC/MP	LT SL 2/2 LT SL	3	2	4	3	3
		HR(S) 8/10 HR(S)	2	10	0	0.2	3.1
		HR(P) HR(P)	2	9	0	0.5	2.8
		HR(I) HR(I)	0.5	8	0	0	
(2) Perimeter Defense	CJSC/MP	CPT SL 2/1 CPT SL	3	1	3	2	2.3b
		HR(S) 8/7 HR(S)	1	7	0	0.5	2.1
		HR(P) HR(P)	0	17	0	0	1.8
		HR(I) HR(I)	0.5	2	0	0.1	

Summary

Proponent	Proponent Sufficiency Level/Hours Required	CS	SC	MP	MI	CH	CS MEAN
(3) Active/Passive Security	COSC/MP	LT SL HR(S) 2/2 HR(S) 4/6	LT SL HR(S) 2/1 CPT SL HR(S) 4/4	3 1 1 0.5	2 6 4 2	4 0 0 0	3 0.2 0.5 0
							3 1.8 1.4
(4) Weapons Employment	COSC/MP	LT SL HR(S) 1/2 HR(S) 8/14	LT SL HR(S) 2/1 CPT SL HR(S) 4/4	3 1 1 0.5	2 14 16 12	4 0 0 0	3 0.5 0.5 0
							3 3 3.9 4.4
(5) Physical Layout of Rear Area	COSC/MP	LT SL HR(S) 2/2 HR(S) 3/4	LT SL HR(S) 1/1 CPT SL HR(S) 8/14	3 1 1 0.5	2 14 12 4	4 0 0 0	3 2.3 4 3
Leadership	COSC	LT SL HR(S) 1 HR(S) 30	LT SL HR(S) 2/1 CPT SL HR(S) 50	3 0 0 0	2 4 3 0	4 0 0 0	3 0.5 1.1 1.1
							3 1 2.5b 1 0.5

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SUBJECT	Proponent Sufficiency Level/ Hours Required	SC ^j	MP	MI	CM	CS MEAN
TOTAL HOURS						
LT	HR(S)	426.2	488.5	1226.75	508.9	662.6
	HR(P)	350.4	308.6	495.75	389.7	386.11
	HR(I)	103.7	50.3	734.5	193.3	
CPT	HR(S)	548.5	581	944.95	696.5	692.7
	HR(P)	494.4	293.2	393.25	421.5	400.6
	HR(I)	123.5	41.3	550.2	80.4	

FOOTNOTES

- a. Initial Entry Rotary Wing Course data used for Aviation LT, and Warrant Officer Advanced Course data used for Aviation CPT.
- b. Proponent recommended sufficiency level and hours used to compute the mean.
- c. Field Artillery indicates 15 hours required for Offensive Operations in OBC.
- d. Field Artillery indicates 22 hours required for Offensive Operation in OAC.
- e. Field Artillery indicates 15 hours required for Defensive Operations in OBC.
- f. Field Artillery indicates 27 hours required for Defensive Operations in OAC.
- g. Field Artillery indicates 9 hours required for Reconnaissance and Security Operations in OAC.
- h. Field Artillery indicates 4 hours required for Air Defense in OAC.
- i. Field Artillery indicates 4 hours required for Engineer Operations in OAC.
- j. Signal School data does not reflect SC 72 data.
- k. Signal School indicates 1 hour required for Defensive Doctrine and Fundamentals in OBC and OAC.
- l. Signal School devotes 0.5 hours to Defensive Doctrine and Fundamentals in OBC.
- m. Signal School devotes 3 hours to Defensive Doctrine and Fundamentals in OAC.
- n. Signal School devotes 1 hour to Defensive Doctrine and Fundamentals in OAC.
- o. Missile and Munitions OAC POI data not available.
- p. Missile and Munitions indicates 40 hours required for Organizational Basics in OBC.
- q. Missile and Munitions devotes 40 hours for Organizational Basics in OBC.
- r. Missile and Munitions devotes 18 hours for Organizational Basics in OBC.
- s. Missile and Munitions indicates 55 hours required for Organizational Basics in OAC.
- t. Missile and Munitions indicates 3 hours required for Electronic Warfare in OBC.
- u. Missile and Munitions indicates 9 hours required for Electronic Warfare in OAC.
- v. Missile and Munitions indicates 12 hours required for Tactical Basics in OBC.
- w. Missile and Munitions indicates 9 hours required for Tactical Basics in OAC.
- x. Missile and Munitions indicates 3 hours required for Intelligence in OBC.

- y. Missile and Munitions devotes 1 hour to Intelligence in OBC.
- z. Missile and Munitions indicates 5 hours required for Intelligence in OAC.
- aa. Missile and Munitions indicates 4 hours required for AD in OBC.
- bb. Missile and Munitions indicates 8 hours required for AD in OAC.
- cc. Missile and Munitions indicates 5 hours required for Threat in OBC.
- dd. Missile and Munitions devotes 6 hours to Threat in OBC.
- ee. Missile and Munitions indicates 8 hours required for Threat in OAC.
- ff. Missile and Munitions indicates 5 hours required for Offensive Operations in OBC.
- gg. Missile and Munitions indicates 5 hours required for Offensive Operations in OAC.
- hh. Missile and Munitions indicates 5 hours required for Defensive Operations in OBC.
- ii. Missile and Munitions indicates 9 hours required for Defensive Operations in OAC.
- jj. Missile and Munitions indicates 2 hours required for Retrograde Operations in OAC.
- kk. Missile and Munitions indicates 3 hours required for Reconnaissance and Security Operations in OAC.
- ll. Missile and Munitions indicates 2 hours required for USA Operational Concepts in OBC.
- mm. Missile and Munitions indicates 3 hours required for USA Operational Concepts in OAC.
- nn. Missile and Munitions indicates 1 hour required for Engineer Operations in OBC.
- oo. Missile and Munitions indicates 5 hours required for Engineer Operations in OAC.
- pp. Missile and Munitions indicates 1 hour required for Army Aviation in OBC.
- qq. Missile and Munitions devotes 1 hour to Army Aviation in OBC.
- rr. Missile and Munitions indicates 3 hours required for Army Aviation in OAC.
- ss. Missile and Munitions indicates 5 hours required for Transportation in OBC.
- tt. Missile and Munitions indicates 18 hours required for Transportation in OAC.
- uu. Missile and Munitions indicates 11 hours required for Manpower in OBC.
- vv. Missile and Munitions indicates 6 hours required for Manpower in OAC.
- ww. Missile and Munitions indicates 4 hours required for Special Environments in OAC.
- xx. Missile and Munitions indicates 20 hours required for Rear Area Combat Operations in OBC.

- yy. Missile and Munitions devotes 10 hours to RACO in OBC.
- zz. Missile and Munitions devotes 12 hours to RACO in OBC.
- aaa. Missile and Munitions indicates 12 hours required for RACO in OAC.
- bbb. Infantry School indicates subject integrated throughout 419 hours of FTX's.
- ccc. Infantry School indicates subject included in Defensive Operations.
- ddd. Infantry School indicates subject emphasized throughout the course.
- eee. Infantry School indicates 8 hours required for Defense in OBC.
- fff. Infantry School devotes 3 hours to Defense in OBC.
- ggg. Infantry School indicates 9 hours required for Defense in OAC.
- hhh. Infantry School devotes 1 hour to Defense in OAC.
- jjj. Infantry School indicates subject included in Patrolling.

ANNEX F

CONSOLIDATED CASS SURVEY DATA FOR
COMBAT SERVICE SUPPORT SCHOOLS

LEGEND

- 1) SL - Sufficiency Level
 - a) SL 1 - Fully Proficient
 - b) SL 2 - Working Knowledge
 - c) SL 3 - Familiarity
 - d) SL 4 - No Training Required
- 2) HR(S) - Hours Required to Attain Sufficiency Level
- 3) HR(P) - Hours Entirely Devoted to the Subject
- 4) HR(I) - Hours Subject is Integrated Into Other Subject Areas

COMBINED ANMS SUFFICIENCY STUDY UPDATE
COMBAT SERVICE SUPPORT SERVICE SCHOOLS

SUBJECT	Proponent	Proponent Sufficiency Level/ Hours Required	LT	SL	LT	SL	OD	MM	AG	FI	QM	TC	MS	CSS MEAN
1. Doctrinal Basics														
A. Principles of War														
CGSC	LT	SL	2	2	LT	SL	3	1	2	2	2	2	2	2
							2	1	1	1	2	4	2	1.9
							0.1	1	0	0	1	0	1	0.4
							0	1	1	1	0	0.2	0	
CGSC	CPT	SL	2	2	CPT	SL	3	1	2	2	2	2	1	1.9
							0	1	1	1	5	3	2	1.9
							0	0	0	0	2	1	0	0.5
							0.1	1	1	1	10	0.5	1	
B. USA Airland Battle Operational Concept														
CGSC	LT	SL	1	4	LT	SL	2	3	2	2	3	2	2	2.3
							8.3	1	3	4	6	5	3	4.3
							0	1	0	0	3	4	6	2
							0.5	1	0	0	0	1	1	
CGSC	CPT	SL	1	4	CPT	SL	3	2	2	2	2	2	2	2.1
							1.5	1	3	4	9	6	3	3.9
							2.5	0	0	0	6	7	4	3.3
							0.1	0	0	0	4	1.5	0	
C. Organization/Preparation For Combat														
IN/AR	LT	SL	2/2	4/4	LT	SL	2	2	2	3	2	2	3	2.3
							2	P	2	1	14	6	2	4.5
							0	q	0	0	8	5	2	2.5
							0	r	0	0	6	1	0	
IN/AR	CPT	SL	1/2	12/8	CPT	SL	2	1	1	3	1	2	2	1.7
							1	s	4	1	60	6	2	12.3
							0	0	0	0	68	5	2	12.5
							0	0	0	0	3	1	0	

SUBJECT

Proponent

Proponent Sufficiency Level/
Hours Required

MS

TC

OM

FI

AG

MH

OD

LT

SL

HR(S)

HR(P)

HR(I)

CPT

SL

HR(S)

HR(P)

HR(I)

CPT

SL

HR(S)

HR(P)

HR(I)

3. Intelligence and
Electronic Warfare

A. Tactical Intelligence

NI

3

LT

SL

HR(S)

HR(P)

HR(I)

CPT

SL

HR(S)

HR(P)

HR(I)

2.7

1.7

0.8

B. Electronic Warfare

(1) Electronic Warfare
Support Measures (ESM)

NI

3

LT

SL

HR(S)

HR(P)

HR(I)

CPT

SL

HR(S)

HR(P)

HR(I)

3.3

0.5

0.2

(2) Electronic
Countermeasures (ECM)

NI

3

LT

SL

HR(S)

HR(P)

HR(I)

CPT

SL

HR(S)

HR(P)

HR(I)

2.9

0.9

0.3

(2) Electronic
Countermeasures (ECM)

NI

3

LT

SL

HR(S)

HR(P)

HR(I)

CPT

SL

HR(S)

HR(P)

HR(I)

3.3

0.7

0.3

(2) Electronic
Countermeasures (ECM)

NI

3

LT

SL

HR(S)

HR(P)

HR(I)

CPT

SL

HR(S)

HR(P)

HR(I)

2.9

0.7

0.2

CSS MEAN

SUBJECT

Proponent

Proponent
Sufficiency Level/
Hours Required

MS

TC

QM

FI

AG

HM⁰

OD

C. Intelligence Preparation
Of The Battlefield (IPB)

MI	LT	SL	HR(S)	LT	SL	HR(S)	HR(P)	HR(I)	OD	HM ⁰	AG	FI	QM	TC	MS	CSS MEAN
									3	3	4	4	3	4	3	3.4
									0	X	0	0	1	0	1	0.3
									0	0	0	0	1	0	0	0.1
									0	Y	0	0	1	0.2	0	
									3	2	4	4	3	3	3	3.1
									1	Z	0	0	3	3	1	1.2
									1		0	0	1	2	0	0.7
									0.2	0	0	0	0.5	0	0	

D. Tactical All-Source
Intelligence Production

MI	LT	SL	HR(S)	LT	SL	HR(S)	HR(P)	HR(I)	OD	HM ⁰	AG	FI	QM	TC	MS	CSS MEAN
									4	3	3	3	3	3	3	3.1
									0	X	1	1	1	1	2	1
									0	0	0	0	1	1	0	0.3
									0	Y	0	0	0	0	0	
									3	2	4	4	3	3	3	3.1
									1	Z	0	0	3	3	1	1.3
									0.1	0	0	0	0	2	0	0.4
									0		0	0	0.5	0	0	

(1) Signals Intelligence
(SIGINT)

MI	LT	SL	HR(S)	LT	SL	HR(S)	HR(P)	HR(I)	OD	HM ⁰	AG	FI	QM	TC	MS	CSS MEAN
									3	3	4	4	4	3	3	3.4
									0	X	0	0	0	1	1	0.3
									0	0	0	0	1	1	0	0.3
									0	Y	0	0	0	0	0	
									3	2	4	4	3	3	3	3.1
									0	Z	0	0	1	1	1	0.5
									0.1	0	0	0	1	1	0	0.4
									0		0	0	1	0	0	

(2) Imagery Intelligence
(IMINT)

MI	LT	SL	HR(S)	LT	SL	HR(S)	HR(P)	HR(I)	OD	HM ⁰	AG	FI	QM	TC	MS	CSS MEAN
									3	3	4	4	4	3	3	3.4
									0	X	0	0	0	1	1	0.3
									0	0	0	0	0	0.5	0	0.1
									0	Y	0	0	0	0	0	
									3	2	4	4	3	3	3	3.1
									0	Z	0	0	1	1	1	0.5
									0.1	0	0	0	0	2	0	0.4
									0		0	0	0.5	0	0	

WPC8223E/MAR83

SUBJECT

Proponent
Proponent
Sufficiency Level/
Hours Required

OD HH⁰ AG FI OM TC MS

CSS MEAN

G. AD Land Space Requirements
In NSA and CFA

AD	LT SL	2	LT SL	LT SL	LT SL	OD	HH ⁰	AG	FI	OM	TC	MS	CSS MEAN
	HR(S)	1	HR(S)	HR(S)	HR(S)	4	3	4	4	3	3	3	3.4
	HR(P)			HR(P)	HR(P)	0	aa	0	0	1	3	1	0.8
	HR(I)			HR(I)	HR(I)	0	0	0	0	1	0.1	0	0.2
	CPT SL	2	CPT SL	CPT SL	CPT SL	4	2	3	4	3	3	3	3.1
	HR(S)	1	HR(S)	HR(S)	HR(S)	0	bb	1	0	2	1	1	0.8
	HR(P)			HR(P)	HR(P)	0		0	0	0	0.5	0	0.1
	HR(I)			HR(I)	HR(I)	0		0	0	0.5	0	0	

5. Close Combat

A. Tactical Basics

(1) Battlefield Movement

IN/AR	LT SL	2/3	LT SL	LT SL	LT SL	OD	HH ⁰	AG	FI	OM	TC	MS	CSS MEAN
	HR(S)	20/8	HR(S)	HR(S)	HR(S)	2	2	2	2	2	2	3	2.1
	HR(P)			HR(P)	HR(P)	8	v	3	3	9	3.5	1	4.6
	HR(I)			HR(I)	HR(I)	0	1	1	1	6	0.2	0	1.3
	CPT SL	2/2	CPT SL	CPT SL	CPT SL	2	0	0	0	4	0	1	
	HR(S)	10/12	HR(S)	HR(S)	HR(S)	2	2	1	2	2	1	2	1.7
	HR(P)			HR(P)	HR(P)	5	w	4	4	7	4.5	1	4.3
	HR(I)			HR(I)	HR(I)	5		0	0	8	4	1	3
						2		0	0	0.5	0	0	

(2) Operations Security

CI/SC	LT SL	1	LT SL	LT SL	LT SL	OD	HH ⁰	AG	FI	OM	TC	MS	CSS MEAN
	HR(S)	4	HR(S)	HR(S)	HR(S)	2	2	2	2	2	2	1	1.9
	HR(P)			HR(P)	HR(P)	2	v	2	2	3	2.5	1	2.1
	HR(I)			HR(I)	HR(I)	0	1	0	0	3	3	1	1.1
	CPT SL	1	CPT SL	CPT SL	CPT SL	0	1	1	1	1	1	0	
	HR(S)	4	HR(S)	HR(S)	HR(S)	2	2	2	2	2	1	2	1.9
	HR(P)			HR(P)	HR(P)	2	w	2	2	6	3	1	2.7
	HR(I)			HR(I)	HR(I)	0		0	0	3	3	1	1.2
						0.2		0	0	4	0.5	0	

(3) Signal Security (SIGSEC)

MI/SC	LT SL	2/2	LT SL	LT SL	LT SL	OD	HH ⁰	AG	FI	OM	TC	MS	CSS MEAN
	HR(S)	5/3	HR(S)	HR(S)	HR(S)	3	3	3	3	3	2	2	2.7
	HR(P)			HR(P)	HR(P)	4	t	1	1	3	2	1	2
	HR(I)			HR(I)	HR(I)	5	4	0	0	3	2	0	2
	CPT SL	2/2	CPT SL	CPT SL	CPT SL	0	4	0	0	2	0.2	0	
	HR(S)	5/4	HR(S)	HR(S)	HR(S)	2	1	3	3	2	2	2	2.1
	HR(P)			HR(P)	HR(P)	1	u	1	1	3	1.5	1	1.4
	HR(I)			HR(I)	HR(I)	0		0	0	1	1	0	0.3
						0.2		0	0	0	0.2	0	

WPC8223E/HAR83

Proponent
Proponent
Sufficiency Level/
Hours Required

OD MM AG FI QM TC MS

B. Threat

(1) Mission and Role of
Threat Armed Forces

Proponent	Sufficiency Level/ Hours Required	LT	SL	HR(S)	0.5	LT	SL	HR(S)	HR(P)	HR(I)	OD	MM	AG	FI	QM	TC	MS	CSS MEAM
CACDA											3	3	2	2	3	2	3	2.6
											2	oo	2	3	2	2	1	2
											0	dd	3	3	2	1	2	2.6
											0	0	0	0	0	0.2	0	
											2	2	2	3	3	2	2	2.3
											0.5	ee	2	3	1	2	2	1.6
											0.5		3	3	2	4	3	2.6
											0		0	0	10	0.5	0	

(2) Organization/Equipment

Proponent	Sufficiency Level/ Hours Required	LT	SL	HR(S)	2	LT	SL	HR(S)	HR(P)	HR(I)	OD	MM	AG	FI	QM	TC	MS	CSS MEAM
CACDA											2	3	2	3	2	2	3	2.4
											1	oo	2	1	3	2	1	1.7
											1	dd	5	5	2	1	0.3	2.3
											0	0	0	0	0	0.2	0	
											2	2	2	3	2	2	3	2.3
											1	ee	4	1	3	2	1	2
											0.5		6	6	2	2	0	2.6
											0		0	0	1	0.2	0	

(3) Offensive Operations

Proponent	Sufficiency Level/ Hours Required	LT	SL	HR(S)	1	LT	SL	HR(S)	HR(P)	HR(I)	OD	MM	AG	FI	QM	TC	MS	CSS MEAM
CACDA											3	3	3	3	2	2	3	2.7
											1	oo	1	1	4	2	1	1.7
											0.5	dd	2	2	2	1	0.3	1.3
											0	0	0	0	0	0.5	0	
											2	2	2	3	2	2	3	2.3
											1.5	ee	1	1	4	2	2	1.9
											1		2	2	5	2	2	2.3
											0.5		0	0	2	0.5	0	

(4) Defensive Operations

Proponent	Sufficiency Level/ Hours Required	LT	SL	HR(S)	3	LT	SL	HR(S)	HR(P)	HR(I)	OD	MM	AG	FI	QM	TC	MS	CSS MEAM
CACDA											3	3	3	3	2	2	3	2.7
											1	oo	1	1	4	2	1	1.9
											0.5	dd	0	0	1	1	0.3	0.4
											0	0	0	0	0	0	0	
											2	2	3	3	2	2	3	2.4
											1.5	ee	1	1	5	1.5	2	2
											1		0	0	1	1	2	1
											0.5		0	0	0	0	0	

SUBJECT

Proponent
Proponent
Sufficiency Level/
Hours Required

CSS MEAN

MS

TC

QM

FI

AG

MH

OD

3.1

1.2

0.3

2.4

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SUBJECT

Proponent
Sufficiency Level/
Hours Required

CSS MEAN

	IN/AR	LT	SL	3/3	LT	SL	OD	MM	AG	FI	QM	TC	MS	
(3) Hasty Attack			HR(S)	2/3		HR(S)	3	3	2	3	3	2	3	2.7
			HR(P)			HR(P)	0.5	ff	2	1	2	2	0.2	1.3
			HR(I)			HR(I)	0	0	0	0	1	0.2	0	0.2
							0.2	0	0	0	0	0.2	0	
		CPT	SL	3/3	CPT	SL	3	2	2	3	2	2	3	2.4
			HR(S)	2/4		HR(S)	0.5	BS	2	1	3	2	0.3	1.5
			HR(P)			HR(P)	0.5	0	0	0	0	0.3	0	0.1
			HR(I)			HR(I)	0	0	0	0	0.5	0.2	0	
(4) Deliberate Attack			HR(S)	2/3		HR(S)	3	3	3	3	3	2	3	2.9
			HR(P)			HR(P)	0.5	ff	1	1	2	2	0.2	1.1
			HR(I)			HR(I)	0	0	0	0	2	0.2	0	0.3
							0.2	0	0	0	0	0.2	0	
		CPT	SL	3/3	CPT	SL	3	2	3	3	2	2	3	2.6
			HR(S)	2/4		HR(S)	0.5	BS	1	1	4	2	0.3	1.5
			HR(P)			HR(P)	1	0	0	0	0	0.3	0	0.2
			HR(I)			HR(I)	0	0	0	0	0.5	0.2	0	
(5) Exploitation			HR(S)	2/3		HR(S)	3	3	4	4	3	2	3	3.1
			HR(P)			HR(P)	0.5	ff	0	0	2	2	0.2	0.8
			HR(I)			HR(I)	0	0	0	0	1	0.2	0	0.2
							0.1	0	0	0	0	0	0	
		CPT	SL	2/3	CPT	SL	3	2	4	3	2	2	3	2.7
			HR(S)	8/4		HR(S)	0.5	BS	0	1	2	1.5	0.3	0.9
			HR(P)			HR(P)	0.5	0	0	0	0	0.3	0	0.1
			HR(I)			HR(I)	0	0	0	0	0.5	0	0	
(6) Pursuit			HR(S)	2/3		HR(S)	3	3	4	4	3	2	3	3.1
			HR(P)			HR(P)	0.5	ff	0	0	2	2	0.2	0.8
			HR(I)			HR(I)	0	0	0	0	1	0.2	0	0.2
							0.1	0	0	0	0	0	0	
		CPT	SL	2/3	CPT	SL	3	2	4	3	2	2	3	2.7
			HR(S)	8/4		HR(S)	0.5	BS	0	1	2	1.5	0.3	0.9
			HR(P)			HR(P)	0.5	0	0	0	0	0.3	0	0.1
			HR(I)			HR(I)	0	0	0	0	0.5	0	0	

SUBJECT

Proponent
Proponent
Sufficiency Level/
Hours Required

CSS MEAN

IN/AR	LT	SL	2/3	LT	SL	OD	MM	AG	FI	QM	TC	MS
(7) Approach (Relief) of Encircled Forces												
	LT	SL	2/3	LT	SL	3	3	4	4	3	2	3
		HR(S)	6/3		HR(S)	0.5	ff	0	0	2	2	0.2
					HR(P)	0	0	0	0	1	0.3	0
					HR(I)	0	0	0	0	0	0	0
	CPT	SL	2/3	CPT	SL	3	2	4	3	2	2	3
		HR(S)	8/4		HR(S)	0.5	gg	0	1	3	1.5	0.3
					HR(P)	0	0	0	0	1	0.3	0
					HR(I)	0	0	0	0	0.5	0	0
(8) Reconnaissance in Force												
	LT	SL	2/3	LT	SL	3	3	4	4	3	2	3
		HR(S)	4/3		HR(S)	0.5	ff	0	0	2	2	0.2
					HR(P)	0	0	0	0	1	0.3	0
					HR(I)	0	0	0	0	0	0	0
	CPT	SL	2/3	CPT	SL	3	2	4	3	2	2	3
		HR(S)	4/4		HR(S)	0.5	gg	0	1	3	1.5	0.3
					HR(P)	0.2	0	0	0	0	0.3	0
					HR(I)	0	0	0	0	0	0	0
D. Defensive Operations												
(1) Doctrine (Concepts) and Fundamentals												
(a) Covering Force Area												
	LT	SL	2/2	LT	SL	3	2	2	3	3	3	3
		HR(S)	1/3		HR(S)	0.5	hh	1	1	3	1	0.2
					HR(P)	0	0	0	0	2	0.3	0.2
					HR(I)	0.1	0	0	0	1	0.1	0
	CPT	SL	2/2	CPT	SL	3	2	2	3	2	2	3
		HR(S)	2/4		HR(S)	0.5	11	1	4	2	0.3	0.3
					HR(P)	1	0	0.5	3	0.5	0.3	1
					HR(I)	0	0	0	0.5	0.1	0	0
(b) Main Battle Area												
	LT	SL	2/2	LT	SL	3	2	2	3	3	3	3
		HR(S)	1/3		HR(S)	0.5	hh	1	1	4	1	1
					HR(P)	0	0	0	0	4	0.3	0.2
					HR(I)	0.1	0	0	0	4	0.1	0
	CPT	SL	2/2	CPT	SL	3	2	2	3	2	2	3
		HR(S)	2/4		HR(S)	0.5	11	1	1	5	3	0.3
					HR(P)	2	0	0.5	6	0.5	0.3	0.3
					HR(I)	0	0	0	2	0.1	0	0

SUBJECT

CSS MEAN

Proponent
Sufficiency Level/
Hours Required

Proponent

TC MS

QH

FI

AG

MH⁰

OD

LT

SL

HR(S)

HR(P)

HR(I)

CPT

SL

HR(S)

HR(P)

HR(I)

CPT

SL

HR(S)

HR(P)

HR(I)

CPT

SL

HR(S)

HR(P)

HR(I)

(c) Rear Area

IN/AR

LT

SL

HR(S)

HR(P)

HR(I)

CPT

SL

HR(S)

HR(P)

HR(I)

CPT

SL

HR(S)

HR(P)

HR(I)

CPT

2

4.6

2.1

2

3

1.5

0.2

0

0.1

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3

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3

1

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2

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2

2

(2) Defense in Sector

IN/AR

LT

SL

HR(S)

HR(P)

HR(I)

CPT

SL

HR(S)

HR(P)

HR(I)

CPT

SL

HR(S)

HR(P)

HR(I)

CPT

2.6

2

1.6

2

3

0.2

0

0.2

0

3

1

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(3) Defense from Battle Positions

(a) Linear

IN/AR

LT

SL

HR(S)

HR(P)

HR(I)

CPT

SL

HR(S)

HR(P)

HR(I)

CPT

SL

HR(S)

HR(P)

HR(I)

CPT

2.7

1.3

0.4

3

2

1.5

0.5

0

0

0

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0

(b) Perimeter

IN/AR

LT

SL

HR(S)

HR(P)

HR(I)

CPT

SL

HR(S)

HR(P)

HR(I)

CPT

SL

HR(S)

HR(P)

HR(I)

CPT

2.4

3.8

3.4

3

2

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SUBJECT

Proponent	Proponent Sufficiency Level/Hours Required	IN/AR	CSS MEAN																																				
			LT SL 3/3 HR(S) 2/3	LT SL 3/3 HR(S) 2/3	LT SL 3/3 HR(S) 2/3	LT SL 3/3 HR(S) 2/3	OD HH ⁰	AG	FI	QM	TC	MS																											
(4) Defense In-Depth																																							
(5) Strong Points	IN/AR	LT SL 3/3 HR(S) 2/3	LT SL 3/3 HR(S) 2/3	LT SL 3/3 HR(S) 2/3	LT SL 3/3 HR(S) 2/3	LT SL 3/3 HR(S) 2/3	LT SL 3/3 HR(S) 2/3	LT SL 3/3 HR(S) 2/3	LT SL 3/3 HR(S) 2/3	LT SL 3/3 HR(S) 2/3	LT SL 3/3 HR(S) 2/3																												
												CPT SL 3/3 HR(S) 2/4	CPT SL 3/3 HR(S) 2/4	CPT SL 3/3 HR(S) 2/4	CPT SL 3/3 HR(S) 2/4	CPT SL 3/3 HR(S) 2/4	CPT SL 3/3 HR(S) 2/4	CPT SL 3/3 HR(S) 2/4	CPT SL 3/3 HR(S) 2/4	CPT SL 3/3 HR(S) 2/4	CPT SL 3/3 HR(S) 2/4																		
																						CPT SL 3/3 HR(S) 2/4	CPT SL 3/3 HR(S) 2/4	CPT SL 3/3 HR(S) 2/4	CPT SL 3/3 HR(S) 2/4	CPT SL 3/3 HR(S) 2/4	CPT SL 3/3 HR(S) 2/4	CPT SL 3/3 HR(S) 2/4	CPT SL 3/3 HR(S) 2/4	CPT SL 3/3 HR(S) 2/4									
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																																							CPT SL 3/3 HR(S) 2/4
	IN/AR	LT SL 3/3 HR(S) 2/3	LT SL 3/3 HR(S) 2/3	LT SL 3/3 HR(S) 2/3	LT SL 3/3 HR(S) 2/3	LT SL 3/3 HR(S) 2/3	LT SL 3/3 HR(S) 2/3	LT SL 3/3 HR(S) 2/3	LT SL 3/3 HR(S) 2/3	LT SL 3/3 HR(S) 2/3	LT SL 3/3 HR(S) 2/3	LT SL 3/3 HR(S) 2/3																											
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																																							CPT SL 3/3 HR(S) 2/4
(6) Counterattack	IN/AR	LT SL 3/3 HR(S) 2/3	LT SL 3/3 HR(S) 2/3	LT SL 3/3 HR(S) 2/3	LT SL 3/3 HR(S) 2/3	LT SL 3/3 HR(S) 2/3	LT SL 3/3 HR(S) 2/3	LT SL 3/3 HR(S) 2/3	LT SL 3/3 HR(S) 2/3	LT SL 3/3 HR(S) 2/3	LT SL 3/3 HR(S) 2/3																												
												CPT SL 3/3 HR(S) 2/4	CPT SL 3/3 HR(S) 2/4	CPT SL 3/3 HR(S) 2/4	CPT SL 3/3 HR(S) 2/4	CPT SL 3/3 HR(S) 2/4	CPT SL 3/3 HR(S) 2/4	CPT SL 3/3 HR(S) 2/4	CPT SL 3/3 HR(S) 2/4	CPT SL 3/3 HR(S) 2/4	CPT SL 3/3 HR(S) 2/4																		
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																																							CPT SL 3/3 HR(S) 2/4
	IN/AR	LT SL 3/3 HR(S) 2/3	LT SL 3/3 HR(S) 2/3	LT SL 3/3 HR(S) 2/3	LT SL 3/3 HR(S) 2/3	LT SL 3/3 HR(S) 2/3	LT SL 3/3 HR(S) 2/3	LT SL 3/3 HR(S) 2/3	LT SL 3/3 HR(S) 2/3	LT SL 3/3 HR(S) 2/3	LT SL 3/3 HR(S) 2/3	LT SL 3/3 HR(S) 2/3																											
													CPT SL 3/3 HR(S) 2/4	CPT SL 3/3 HR(S) 2/4	CPT SL 3/3 HR(S) 2/4	CPT SL 3/3 HR(S) 2/4	CPT SL 3/3 HR(S) 2/4	CPT SL 3/3 HR(S) 2/4	CPT SL 3/3 HR(S) 2/4	CPT SL 3/3 HR(S) 2/4	CPT SL 3/3 HR(S) 2/4	CPT SL 3/3 HR(S) 2/4																	
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																															CPT SL 3/3 HR(S) 2/4	CPT SL 3/3 HR(S) 2/4	CPT SL 3/3 HR(S) 2/4	CPT SL 3/3 HR(S) 2/4	CPT SL 3/3 HR(S) 2/4	CPT SL 3/3 HR(S) 2/4	CPT SL 3/3 HR(S) 2/4	CPT SL 3/3 HR(S) 2/4	
																																							CPT SL 3/3 HR(S) 2/4
(7) Breakout/Linkup	IN/AR	LT SL 3/3 HR(S) 2/3	LT SL 3/3 HR(S) 2/3	LT SL 3/3 HR(S) 2/3	LT SL 3/3 HR(S) 2/3	LT SL 3/3 HR(S) 2/3	LT SL 3/3 HR(S) 2/3	LT SL 3/3 HR(S) 2/3	LT SL 3/3 HR(S) 2/3	LT SL 3/3 HR(S) 2/3	LT SL 3/3 HR(S) 2/3																												
												CPT SL 3/3 HR(S) 2/4	CPT SL 3/3 HR(S) 2/4	CPT SL 3/3 HR(S) 2/4	CPT SL 3/3 HR(S) 2/4	CPT SL 3/3 HR(S) 2/4	CPT SL 3/3 HR(S) 2/4	CPT SL 3/3 HR(S) 2/4	CPT SL 3/3 HR(S) 2/4	CPT SL 3/3 HR(S) 2/4	CPT SL 3/3 HR(S) 2/4																		
																						CPT SL 3/3 HR(S) 2/4	CPT SL 3/3 HR(S) 2/4	CPT SL 3/3 HR(S) 2/4	CPT SL 3/3 HR(S) 2/4	CPT SL 3/3 HR(S) 2/4	CPT SL 3/3 HR(S) 2/4	CPT SL 3/3 HR(S) 2/4	CPT SL 3/3 HR(S) 2/4	CPT SL 3/3 HR(S) 2/4									
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																																							CPT SL 3/3 HR(S) 2/4
	IN/AR	LT SL 3/3 HR(S) 2/3	LT SL 3/3 HR(S) 2/3	LT SL 3/3 HR(S) 2/3	LT SL 3/3 HR(S) 2/3	LT SL 3/3 HR(S) 2/3	LT SL 3/3 HR(S) 2/3	LT SL 3/3 HR(S) 2/3	LT SL 3/3 HR(S) 2/3	LT SL 3/3 HR(S) 2/3	LT SL 3/3 HR(S) 2/3	LT SL 3/3 HR(S) 2/3																											
													CPT SL 3/3 HR(S) 2/4	CPT SL 3/3 HR(S) 2/4	CPT SL 3/3 HR(S) 2/4	CPT SL 3/3 HR(S) 2/4	CPT SL 3/3 HR(S) 2/4	CPT SL 3/3 HR(S) 2/4	CPT SL 3/3 HR(S) 2/4	CPT SL 3/3 HR(S) 2/4	CPT SL 3/3 HR(S) 2/4	CPT SL 3/3 HR(S) 2/4																	
																							CPT SL 3/3 HR(S) 2/4	CPT SL 3/3 HR(S) 2/4	CPT SL 3/3 HR(S) 2/4	CPT SL 3/3 HR(S) 2/4	CPT SL 3/3 HR(S) 2/4	CPT SL 3/3 HR(S) 2/4	CPT SL 3/3 HR(S) 2/4	CPT SL 3/3 HR(S) 2/4	CPT SL 3/3 HR(S) 2/4								
																																CPT SL 3/3 HR(S) 2/4	CPT SL 3/3 HR(S) 2/4	CPT SL 3/3 HR(S) 2/4	CPT SL 3/3 HR(S) 2/4	CPT SL 3/3 HR(S) 2/4	CPT SL 3/3 HR(S) 2/4	CPT SL 3/3 HR(S) 2/4	CPT SL 3/3 HR(S) 2/4

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SUBJECT

Proponent
Sufficiency Level/
Hours Required

CSS MEAN

E. Retrograde Operations

IN/AR	LT	SL	3/3	LT	SL	OD	MM	AG	FI	QM	TC	MS	CSS MEAN
(1) Delay													
	LT	SL	3/3	LT	SL	3	4	4	3	3	3	3	3.3
		HR(S)	2/3		HR(S)	0.5	0	0	1	3	1	1	1.1
					HR(P)	0	0	0	0	0	0.3	0	0.5
					HR(I)	0.1	0	0	0	0	0	0	
(2) Withdrawal													
	CPT	SL	3/3	CPT	SL	3	2	4	3	2	2	3	2.7
		HR(S)	2/4		HR(S)	0.7	jj	0	1	4	1	1	0.3
					HR(P)	1	0	0	0	0	0.5	0.3	0.3
					HR(I)	0	0	0	0	1	0	0	
(3) Retirement													
	LT	SL	3/3	LT	SL	3	4	4	3	3	3	3	3.3
		HR(S)	2/3		HR(S)	0.5	0	0	1	2	1.5	1	1
					HR(P)	0	0	0	0	3	0.3	0.3	0.5
					HR(I)	0.2	0	0	0	1	0	0	
	CPT	SL	3/3	CPT	SL	3	2	3	3	2	2	3	2.6
		HR(S)	2/4		HR(S)	0.7	jj	1	1	3	1	1	1.3
					HR(P)	1	0	0	0	0.5	0.5	0.3	0.4
					HR(I)	0	0	0	0	0.5	0	0	
(4) Reconnaissance and Security Operations													
	LT	SL	3/3	LT	SL	3	4	4	3	3	3	3	3.3
		HR(S)	2/3		HR(S)	0.5	0	0	1	2	1.5	1	1
					HR(P)	0	0	0	0	2	0.3	0.3	0.4
					HR(I)	0.1	0	0	0	0	0	0	
	CPT	SL	3/3	CPT	SL	3	2	4	3	2	3	3	2.9
		HR(S)	2/4		HR(S)	0.7	jj	0	1	3	1	1	1.1
					HR(P)	0.1	0	0	0	0	0.3	0.3	0.1
					HR(I)	0	0	0	0	0	0	0	

F. Reconnaissance and Security Operations
(1) Doctrine (Concepts) and Fundamentals

AR	LT	SL	2	LT	SL	OD	MM	AG	FI	QM	TC	MS	CSS MEAN
(1) Doctrine (Concepts) and Fundamentals													
	LT	SL	2	LT	SL	4	4	3	3	3	3	3	3.3
		HR(S)	3		HR(S)	0	0	1	1	1	1	1	0.8
					HR(P)	0	0	0	0	1	0.1	0	0.2
					HR(I)	0	0	0	0	0	0	0	
	CPT	SL	2	CPT	SL	3	3	3	3	2	2	3	2.7
		HR(S)	4		HR(S)	0.2	kk	1	1	3	1	1	1.2
					HR(P)	1	0	0	0	2	0.2	0	0.5
					HR(I)	1	0	0	0	0	0	0	

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SUBJECT	Proponent	Proponent Sufficiency Level/ Hours Required	LT	SL	3	LT	SL	OD	MM ⁰	AG	FI	QH	TC	MS	CSS MEAN
(2) Reconnaissance	AR	LT SL HR(S) 1	LT	SL	3	LT	SL	4	4	4	4	3	3	3	3.6
						HR(S)		0	0	0	0	1	1	1	0.4
						HR(P)		0	0	0	0	1	0.1	0	0.2
						HR(I)		0	0	0	0	0	0	0	
(3) Security	AR	CPT SL HR(S) 1	CPT	SL	3	CPT	SL	3	3	4	3	2	2	3	2.9
						HR(S)		0.2	kk	0	1	2	1	1	0.9
						HR(P)		0.2		0	0	0.5	0.2	0	0.2
						HR(I)		0.1		0	0	0.5	0	0	
(4) Economy of Force	AR	LT SL HR(S) 1	LT	SL	3	LT	SL	4	4	4	4	3	3	3	3.6
						HR(S)		0	0	0	0	1	1	1	0.4
						HR(P)		0	0	0	0	1	0.1	0	0.2
						HR(I)		0	0	0	0	0	0	0	
(5) Division 86 Cavalry Operations	AR	CPT SL HR(S) 1	CPT	SL	3	CPT	SL	3	3	4	3	2	2	3	2.9
						HR(S)		0.2	kk	0	1	2	1	1	0.9
						HR(P)		0.2		0	0	1	0.1	0	0.2
						HR(I)		0.1		0	0	0.5	0	0	
(5) Division 86 Cavalry Operations	AR	LT SL HR(S) 1	LT	SL	3	LT	SL	4	4	3	3	3	3	3	3.3
						HR(S)		0	0	1	1	1	1	1	0.7
						HR(P)		0	0	0	0	1	0.1	0	0.2
						HR(I)		0	0	0	0	0	0	0	
(5) Division 86 Cavalry Operations	AR	CPT SL HR(S) 1	CPT	SL	3	CPT	SL	3	3	3	3	2	2	3	2.7
						HR(S)		0.5	kk	1	1	2	1	1	1.1
						HR(P)		0		0	0	0	0.2	0	0
						HR(I)		0		0	0	0	0	0	

SUBJECT	Proponent	Proponent Sufficiency Level/ Hours Required	LT	SL	HR(S)	HR(P)	HR(I)	OD	MM	AG	FI	QM	TC	MS	CSS MEAN
B. Combat Support Aviation	AV	LT SL HR(S) 3	LT SL	HR(S)	HR(P)	HR(I)	3	3	3	3	3	3	3	3	3
								1	PP	1	1	1	2	1	1.2
								0	qq	0	0	1	7	0	1.3
								0	0	0	0	1	0	0	
		CPT SL HR(S) 7	CPT SL	HR(S)	HR(P)	HR(I)	3	2	3	3	3	3	3	3	2.9
							0	rr	1	1	2	1	1	1	1
							0	0	0	0	0	0	27	1	4.7
							0	0	0	0	1	1	0	0	
C. Combat Service Support Aviation	AV	LT SL HR(S) 2.5	LT SL	HR(S)	HR(P)	HR(I)	3	3	3	3	3	3	3	3	3
							1	PP	1	1	1	1	2.5	1	1.8
							0	qq	0	0	2	2	9.5	1	1.8
							0	0	0	0	1	1	0	0	
		CPT SL HR(S) 7	CPT SL	HR(S)	HR(P)	HR(I)	2	2	3	3	2	2	2	3	2.4
							0	rr	1	1	1	5	2	1	1.7
							0	0	0	0	0	0	49	1	8.3
							0	0	0	0	2	2	0	0	
9. Combat Service Support A. Logistics Operations (1) Supply	QM	LT SL HR(S) 25	LT SL	HR(S)	HR(P)	HR(I)	2	2	1	1	2	1	2	2	2b
							90	10	6	4	327	14	18	18	23.9
							33	10	7	7	173	14	18	18	16.3
							48	0	0	0	24	11	0	0	
		CPT SL HR(S) 25	CPT SL	HR(S)	HR(P)	HR(I)	1	1	1	2	1	1	1	2	1.6b
							203	10	6	4	602	17	4	4	13
							44	7	7	7	207	14	4	4	13.7
							163	0	0	0	57	11	0	0	
(2) Ammunition Support Structure and Requisitioning	MM	LT SL HR(S) 4	LT SL	HR(S)	HR(P)	HR(I)	3	2	3	3	2	2	2	3	2.6b
							1	4	1	1	4	2	2	2	2.1
							0	4	0	0	0	0	0	0	0.6
							7	0	0	0	3	0	0	0	
		CPT SL HR(S) 2	CPT SL	HR(S)	HR(P)	HR(I)	2	2	3	3	2	2	2	3	2.4b
							3	2	1	1	4	1	1	3	2.1
							0	0	0	0	2	1	1	0	0.6
							0	0	0	0	2	2	0	0	

SUBJECT

Proponent

Proponent Sufficiency Level/
Hours Required

(3) Ammunition Supply Rates
and DAO Functions

MM	LT	SL	3	LT	SL	OD	MM	AG	FI	QM	TC	MS	CSS MEAN
	LT	SL	3	LT	SL	3	3	4	4	3	3	3	3.3
	HR(S)	2		HR(S)		1	2	0	0	7	1.5	1	1.8
				HR(P)		0	2	0	0	3	0	0	0.7
				HR(I)		7	0	0	0	0	0	0	
	CPT	SL	3	CPT	SL	2	3	4	4	2	3	3	3
	HR(S)	4		HR(S)		3	1	0	0	4	1.5	2	1.6
				HR(P)		0	0	0	0	2	0	0	0.3
				HR(I)		0	0	0	0	1	0	0	

B. Transportation Operations

(1) Convoy Operations

TC	LT	SL	2	LT	SL	OD	MM	AG	FI	QM	TC	MS	CSS MEAN
	LT	SL	2	LT	SL	2	2	2	3	2	2	2	2.1b
	HR(S)	4		HR(S)		2	ss	2	2	7	13	2	3.2
				HR(P)		6	0	0	0	4	6	0	2
				HR(I)		0	0	0	0	4	3	0	
	CPT	SL	2	CPT	SL	1	1	2	2	2	2	1	1.6
	HR(S)	1		HR(S)		2	tt	2	4	4	10	3	2.7
				HR(P)		2	0	0	0	4	1	0	1.2
				HR(I)		0	0	0	0	0	0	0	

(2) Movement Control

TC	LT	SL	2	LT	SL	OD	MM	AG	FI	QM	TC	MS	CSS MEAN
	LT	SL	2	LT	SL	3	2	2	4	2	2	2	2.4b
	HR(S)	3		HR(S)		1	ss	1	0	7	7	2	2.3
				HR(P)		0	0	0	0	0	3	0	0.4
				HR(I)		6	0	0	0	0	0	0	
	CPT	SL	2	CPT	SL	1	1	2	3	2	2	1	1.7b
	HR(S)	1		HR(S)		3	tt	1	1	4	8	3	2.2
				HR(P)		2	0	0	0	4	0	0	2.3
				HR(I)		0	0	0	0	0	0	0	

C. Field Services Operations

QM	LT	SL	3	LT	SL	OD	MM	AG	FI	QM	TC	MS	CSS MEAN
	LT	SL	3	LT	SL	3	2	2	3	2	2	2	2.4b
	HR(S)	4		HR(S)		1	1	2	2	21	4	2	2.3
				HR(P)		0	2	0	0	11	1	0	1
				HR(I)		0	0	0	0	60	0	0	
	CPT	SL	3	CPT	SL	2	1	2	3	1	2	2	2.1b
	HR(S)	5		HR(S)		3	1	2	2	163	4	2	2.7
				HR(P)		0	0	0	0	5	1	0	1
				HR(I)		0	0	0	0	5	0	0	

SUBJECT	Proponent	Proponent Sufficiency Level/ Hours Required	OD	LT	SL	HR(S)	HR(P)	HR(I)	CPT	SL	HR(S)	HR(P)	HR(I)	OD	MM	AG	FI	QM	TC	MS	CSS MEAN
D. Maintenance Operations																					
(1) Recovery/Evacuation																					
	OD	LT	SL	2	LT	SL	18	HR(S)	2	2	4	3	3	2	2	4	3	3	2	2	2.6
			HR(S)	18			15	HR(P)	0	1	0	0	6	5.5	3	0	2	6	0	0	5.1
			HR(I)	0			0	HR(I)	0	0	0	0	5	0	0	0	0	5	0	0	3.4
		CPT	SL	1			1	HR(S)	1	1	4	3	2	1	1	4	3	2	1	1	1.9
		HR(S)	6				6	HR(P)	0	2	0	1	2	4.2	4	0	0	1	5	0	2.7
		HR(P)	0				0	HR(I)	2.5	0	0	0	1	0	0	0	0	1	0	0	1
		HR(I)	0				0														
(2) Command and Staff Management of Preventive Maintenance																					
	OD	LT	SL	1	LT	SL	4	HR(S)	1	2	1	3	2	1	1	2	4	2	1	1	1.6b
			HR(S)	4			4	HR(P)	4	2	4	1	8	6	3	4	1	8	6	3	4
			HR(I)	0			0	HR(I)	0	0	0	0	4	0	0	0	4	4	95	0	3.1
		CPT	SL	1			1	HR(S)	1	1	1	3	2	1	1	1	4	4	6	4	1.4
		HR(S)	3				3	HR(P)	0	4	4	1	4	6	1	2	4	4	6	4	3.7
		HR(P)	0				0	HR(I)	38	0	2	2	4	4	0	0	4	4	0	0	2
		HR(I)	0				0														
(3) The Army Maintenance Management System (TAMMS)																					
	OD	LT	SL	2	LT	SL	6	HR(S)	2	2	2	2	2	2	1	2	2	2	2	1	1.9
			HR(S)	6			6	HR(P)	6	8	1	4	14	10	3	8	4	14	10	3	6.6
			HR(I)	0			0	HR(I)	0	0	0	0	7	7	0	0	0	7	7	0	4.3
		CPT	SL	1			1	HR(S)	1	1	2	2	1	1	1	1	2	1	1	1	1.3
		HR(S)	3				3	HR(P)	0	6	1	4	4	8	4	0	0	4	8	4	4.3
		HR(P)	0				0	HR(I)	38	0	0	0	7	7	1	0	0	7	7	1	2.3
		HR(I)	0				0														
E. Personnel and Administration Operations																					
(1) Manpower Accountability SSC																					
	SSC	LT	SL	2	LT	SL	4	HR(S)	3	2	1	2	2	3	1	2	2	2	3	1	2.1b
			HR(S)	4			4	HR(P)	8	uu	16	2	3	3	3	16	2	3	3	3	3.6
			HR(I)	0			0	HR(I)	0	1	8	0	0	1	2	0	0	0	1	2	1.1
		CPT	SL	1			1	HR(S)	1	1	1	2	1	2	1	1	2	1	2	1	1.3b
		HR(S)	6				6	HR(P)	3	vv	16	2	4	3	4	8	2	4	3	4	3.7
		HR(P)	5				5	HR(I)	0	8	0	4	4	2	0	4	0	4	2	0	2.8
		HR(I)	0				0														

SUBJECT

Proponent
Sufficiency Level/
Hours Required

CSS MEAN

Proponent	SSC	LT	SL	3	LT	SL	OD	MM	AG	FI	QM	TC	MS	CSS MEAN
(2) Casualty Reporting														
		LT	SL	3	LT	SL	3	2	1	3	3	3	3	2.9b
			HR(S)	1		HR(S)	0	uu	8	1	2	1	3	1.3
						HR(P)	0	1	5	0	0	0.3	2	0.6
						HR(I)	0	0	0	0	0	0.1	0	
		CPT	SL	3	CPT	SL	2	1	1	3	2	2	3	2.3b
			HR(S)	1		HR(S)	0	vv	8	1	3	1.5	4	1.8
						HR(P)	0		7	0	2	0.3	1	0.7
						HR(I)	0		2	0	0	0.1	0	
(3) Replacements														
	SSC	LT	SL	2	LT	SL	3	2	1	3	3	3	2	2.6b
			HR(S)	4		HR(S)	0	uu	8	1	2	1	3	1.8
						HR(P)	0	1	4	0	0	0.3	0	0.8
						HR(I)	0	0	0	0	0	0.1	0	
	CPT	SL	2		CPT	SL	2	1	1	3	2	3	2	2.1b
			HR(S)	4		HR(S)	1	vv	16	1	2	1	4	2.2
						HR(P)	0		5	0	2	0.3	1	1.2
						HR(I)	0		3	0	0	0.1	0	
F. Medical Services														
(1) First Aid														
AHS		LT	SL	1	LT	SL	2	2	1	2	2	2	1	1.7b
			HR(S)	4		HR(S)	0	4	2	2	16	4.5	12	4.6
						HR(P)	0	3	1	1	3	3	12	2.1
						HR(I)	1	0	0	0	16	0	0	
	CPT	SL	1		CPT	SL	2	1	1	2	2	2	1	1.6
			HR(S)	4		HR(S)	0	1	2	2	8	3.5	3	2.8
						HR(P)	0		0	0	0	0.3	0	0.1
						HR(I)	0		0	0	4	0	0	
(2) Medical Evacuation														
AHS		LT	SL	2	LT	SL	3	3	2	3	2	3	1	2.6b
			HR(S)	2		HR(S)	1	1	1	1	3	6.5	1	2.1
						HR(P)	0	1	0	0	0	0.3	1	0.3
						HR(I)	0	0	0	0	2	0	0	
	CPT	SL	1		CPT	SL	2	2	2	3	2	2	1	2.6
			HR(S)	2		HR(S)	0	1	1	1	2	9	4	2.3
						HR(P)	0		0	0	0	0.3	4	0.4
						HR(I)	0		0	0	0	0	0	

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SUBJECT	Proponent	Proponent Sufficiency Level/ Hours Required	LT	SL	2	LT	SL	OD	MM ⁰	AG	FI	QM	TC	MS	CSS MEAN
G. Reconstitution of Ineffective Units	LOGCEN	LT SL HR(S) 2	LT	SL	2	LT	SL	3	3	3	3	3	4	3	3.1
								2	1	1	2	3	0	1	1.4
								0	0	0	0	2	0.1	0	0.3
								0	0	0	0	0	0	0	
		CPT SL HR(S) 4	CPT	SL	4	CPT	SL	3	2	3	1	2	3	3	2.4
								0	2	1	4	2	1	1	1.6
								0	0	0	0	0.5	1	1	0.4
								0.5	0	0	0	0.5	0	0	
10. Special/Other Operations															
A. Low Intensity Conflict															
(1) Counterinsurgency Operations	IN	LT SL HR(S) 2	LT	SL	2	LT	SL	3	3	4	4	2	3	3	3.1
								2	1	0	0	3	1	1	1.1
								0	0	0	0	2	0	0	0.3
								0	0	0	0	0	0	0	
		CPT SL HR(S) 2	CPT	SL	2	CPT	SL	3	3	4	3	2	3	3	3
								0	2	0	1	2	1	1	1
								0	0	0	0	0	0	0	0
								0	0	0	0	1	0	0	0
(2) Counterterror Operations															
	MP/IMA/CGSC	LT SL HR(S) 20/1	LT	SL	20/1	LT	SL	3	4	4	4	3	3	3	3.4
								0	0	0	0	3	1	1	0.7
								0	0	0	0	4	0.2	0	0.6
								0	0	0	0	0	0	0	
		CPT SL HR(S) 36/1	CPT	SL	36/1	CPT	SL	3	3	4	4	2	3	3	3.1
								0	2	0	0	3	1	1	1
								0	0	0	0	0.5	0.5	0	0.2
								0	0	0	0	0	0	0	
(3) Foreign Internal Defense															
	IMA	LT SL HR(S) 1	LT	SL	1	LT	SL	3	4	4	4	4	3	3	3.6
								0	0	0	0	0	0.5	1	0.2
								0	0	0	0	0	0	0	0
								0	0	0	0	0	0	0	
		CPT SL HR(S) 1	CPT	SL	1	CPT	SL	3	4	4	4	3	3	3	3.4
								0	0	0	0	2	0.5	1	0.5
								0	0	0	0	0	0	0	0
								0	0	0	0	1	0	0	

SUBJECT Proponent Proponent Sufficiency Level/
Hours Required

OD HH⁰ AG FI QM TC MS

B. Special Forces Operations	IMA	LT	SL	3	LT	SL	3	4	4	4	3	3	3	3.4
			HR(S)	1		HR(S)		0	0	0	1	1	1	0.4
						HR(P)		0	0	0	1	0	0	0.1
						HR(I)		0	0	0	0	0	0	
		CPT	SL	3	CPT	SL	3	3	4	4	3	3	3	3.3
			HR(S)	1		HR(S)		0	0	0	1	1	1	0.7
						HR(P)		0	0	0	0	0.5	0	0.1
						HR(I)		0	0	0	0	0	0	
C. Unconventional Warfare	IMA	LT	SL	3	LT	SL	3	4	4	4	3	3	3	3.4
			HR(S)	1		HR(S)		1	0	0	1	1	1	0.6
						HR(P)		0	0	0	1	0	0	0.1
						HR(I)		0	0	0	0	0	0	
		CPT	SL	3	CPT	SL	3	2	4	4	3	3	3	3.1
			HR(S)	1		HR(S)		0	1	0	2	1	1	0.7
						HR(P)		0	0	0	0	2	0	0.3
						HR(I)		0	0	0	0.5	0	0	
D. Psychological Operations	IMA	LT	SL	3	LT	SL	3	3	4	4	3	3	2	3.1
			HR(S)	1		HR(S)		0	1	0	1	1	1	0.6
						HR(P)		0	0	0	1	0	0	0.1
						HR(I)		0	0	0	0	0.2	0	
		CPT	SL	3	CPT	SL	3	2	4	4	3	3	3	3.1
			HR(S)	1		HR(S)		0	1	0	2	1	1	0.7
						HR(P)		0	0	0	0	0.2	0	0
						HR(I)		0	0	0	0	0.2	0	
E. Civil Affairs	IMA	LT	SL	3	LT	SL	3	3	3	3	3	3	2	2.9
			HR(S)	1		HR(S)		1	1	1	2	1	1	1.1
						HR(P)		0	0	0	2	2	0	0.6
						HR(I)		0	1	0	0	0	0	
		CPT	SL	3	CPT	SL	3	2	3	3	3	3	3	2.9
			HR(S)	1		HR(S)		0	2	1	2	1	1	1.1
						HR(P)		0	0	0	0	0.2	1	0.2
						HR(I)		0.1	0	0	0.5	0	0	

SUBJECT	Proponent	Proponent Sufficiency Level/ Hours Required	LT	SL	HR(S)	LT	SL	HR(S)	OD	MM ⁰	AG	FI	QM	TC	MS	CSS MEAN
F. Amphibious Operations	IN	3 LT SL HR(S) 2	LT	SL	HR(S)	LT	SL	HR(S)	3	4	4	4	3	3	3	3.4
									1	0	0	0	5	1	1	1.1
									0	0	0	0	1	0	0	0.1
									0	0	0	0	0	0	0	
		3 CPT SL HR(S) 2	CPT	SL	HR(S)	CPT	SL	HR(S)	3	3	4	4	2	2	3	3
									0	1	0	0	3	3.5	1	1.2
									0	0	0	0	0	3	0	0.5
									0	0	0	0	0	0	0	
G. Airborne Operations	IN	3 LT SL HR(S) 2	LT	SL	HR(S)	LT	SL	HR(S)	3	4	4	4	3	3	3	3.4
									0	0	0	0	3	1	1	0.7
									0	0	0	0	1	0.2	2	0.5
									0	0	0	0	0	0	0	
		3 CPT SL HR(S) 2	CPT	SL	HR(S)	CPT	SL	HR(S)	3	2	3	3	2	3	3	2.7
									0.5	2	1	1	5	1	1	1.6
									0	0	0	0	0	0.2	2	0.4
									0.1	0	0	0	0	0	0	
H. Airmobile Operations	IN/AV	3/3 LT SL HR(S) 2/4	LT	SL	HR(S)	LT	SL	HR(S)	3	4	4	4	3	3	3	3.4
									0	0	0	0	3	1	1	0.7
									0	0	0	0	1	0.2	2	0.5
									0	0	0	0	0	0	0	
		3/2 CPT SL HR(S) 2/2	CPT	SL	HR(S)	CPT	SL	HR(S)	3	2	3	3	2	3	3	2.7
									0.5	2	1	1	2	1	1	1.2
									0	0	0	0	0	0.2	2	0.4
									0.1	0	0	0	0	0	0	
I. Ranger Operations	IN	3 LT SL HR(S) 1	LT	SL	HR(S)	LT	SL	HR(S)	3	4	4	4	3	3	3	3.4
									0	0	0	0	2	1	1	0.6
									0	0	0	0	0	0	0	0
									0	0	0	0	0	0	0	
		3 CPT SL HR(S) 1	CPT	SL	HR(S)	CPT	SL	HR(S)	3	2	4	3	3	3	3	3
									0	1	0	1	2	1	1	0.9
									0	0	0	0	0	0	0	0
									0	0	0	0	0	0	0	

SUBJECT

Proponent

Proponent
Sufficiency Level/
Hours Required

CSS MEAN

OD MM⁰ AG FI QM TC MS

J. Operations in Special
Terrain

(1) Desert	IN/AR	LT SL HR(S) 1	LT SL HR(S) HR(P) HR(I)	3 1 0 0	4 0 0 0	4 0 0 0	4 0 0 0	3 2 1 0	3 1 1 0	2 1 0 0	3.3 0.7 0.3
(2) Jungle	IN	CPT SL HR(S) 1	CPT SL HR(S) HR(P) HR(I)	3 0 0 0.1	2 VW 0 0	4 0 0 0	3 1 2 1	2 3 1 0	3 1 1 0	1 1 0 0	2.6 0.8 0
(3) Mountain	IN	CPT SL HR(S) 1	CPT SL HR(S) HR(P) HR(I)	3 0 0 0.1	2 VW 0 0	4 0 0 0	4 0 2 0	2 3 1 0	3 1 1 0	1 1 0 0	2.7 0.7 0
(4) Northern Terrain	IN	CPT SL HR(S) 1	CPT SL HR(S) HR(P) HR(I)	3 0 0 0.1	2 VW 0 0	4 0 0 0	4 0 2 0	2 3 1 0	3 1 1 0	1 1 0 0	2.7 0.7 0

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SUBJECT

Proponent
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Hours Required

OD MH⁰ AG FI CM TC MS

(5) Military Operations in
Urban Terrain (MOUT)

IN	LT SL 2	LT SL	3	3	2	3	3	3	3	2.9
	HR(S) 4	HR(S)	1	2	2	1	1	2	1	1.4
		HR(P)	0	1	0	0	4	0.3	0	0.8
		HR(I)	0	0	0	4	4	0	0	
	CPT SL 2	CPT SL	3	2	2	3	2	1	3	2.3
	HR(S) 4	HR(S)	0.5	10	2	1	11	3	1	4.1
		HR(P)	0	0	0	0	3	2	0	0.8
		HR(I)	1	0	0	4	4	0	0	

K. River Crossing

IN/AN/EN

IN/AN/EN	LT SL 3/3/3	LT SL	4	3	4	4	3	3	3	3.3
	HR(S) 1/2/1	HR(S)	0	0	0	0	2	2	1	0.8
		HR(P)	0	0	0	0	1	0.2	0	0.2
		HR(I)	0	0	0	0	0	0	0	
	CPT SL 3/3	CPT SL	3	2	4	3	2	2	3	2.7
	HR(S) 2/2	HR(S)	0.5	0	0	1	2	2	1	1.1
		HR(P)	0	0	0	0	0	0.2	0	0
		HR(I)	0	0	0	0	0	0	0	

L. Tactical Deception
Operations

CGSC

CGSC	LT SL 2	LT SL	3	3	4	4	3	2	3	3.1
	HR(S) 4	HR(S)	0.5	ff	0	0	3	1.4	0.2	0.9
		HR(P)	0	0	0	0	2	0.2	0	0.3
		HR(I)	0	0	0	0	0	0	0	
	CPT SL 2	CPT SL	3	2	4	3	2	2	3	2.7
	HR(S) 4	HR(S)	0.5	gg	0	1	3	1	0.3	1
		HR(P)	0.5	0	0	0	1	0.3	0	0.3
		HR(I)	0.2	0	0	0	0.5	0	0	

M. Rear Area Combat Operations

(1) Organization for Combat

CGSC/MP	LT SL 3/2	LT SL	2	2	1	2	2	2	3	2
	HR(S) 1/3	HR(S)	1	xx	4	4	11	2	1	3.6
		HR(P)	1	yy	0	0	8	0.3	0	1.6
		HR(I)	0	zz	5	5	1	0	0	
	CPT SL 3/1	CPT SL	1	1	1	1	1	1	1	1
	HR(S) 2/3	HR(S)	0.5	aaa	4	4	5	3	1	2.9
		HR(P)	0.5	0	0	0	2	1	2	0.9
		HR(I)	0	0	6	6	0.5	0	2	

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Proponent
Sufficiency Level/
Hours Required

Proponent

OD HH⁰ AG FI QM TC MS

CSS MEAN

(2) Perimeter Defense	CGSC/NP	LT SL 2/2	LT SL	2	2	1	2	2	2	3	2
		HR(S) 8/10	HR(S)	16	xx	4	4	11	4	1	6.7
			HR(P)	5	yy	0	0	12	3.3	0	3.4
			HR(I)	0	zz	0	0	7	100	0	
(3) Active/Passive Security	CGSC/NP	CPT SL 2/1	CPT SL	1	1	1	1	1	1	1	1
		HR(S) 8/7	HR(S)	0.5	aaa	4	4	6	4	1	3.3
			HR(P)	5		0	0	8	2	0	2.5
			HR(I)	16		0	0	0.5	0.5	0	
(4) Weapons Employment	CGSC/NP	LT SL 2/2	LT SL	1	2	1	2	2	2	3	1.9
		HR(S) 4/6	HR(S)	2	xx	4	4	11	3	1	4.2
			HR(P)	2	yy	0	0	8	3	0	2.2
			HR(I)	0	zz	0	0	2	0	0	
(5) Physical Layout of Rear Area	CGSC/NP	CPT SL 2/1	CPT SL	1	1	1	1	1	1	1	1
		HR(S) 4/4	HR(S)	1	aaa	4	4	4	4	1	4.2
			HR(P)	0.2		0	0	4	2	1	1.2
			HR(I)	0.1		0	0	1	0	0	
(6) Weapons Employment	CGSC/NP	LT SL 1/2	LT SL	1	2	1	2	2	2	3	1.9
		HR(S) 8/14	HR(S)	4	xx	4	4	11	4	1	4.7
			HR(P)	2	yy	0	0	8	2	0	2
			HR(I)	0	zz	4	4	0	8	0	
(7) Physical Layout of Rear Area	CGSC/NP	CPT SL 1/1	CPT SL	1	1	1	1	1	1	3	1.3
		HR(S) 8/14	HR(S)	0.5	aaa	4	4	3	4	1	2.8
			HR(P)	0.5		0	0	0.5	1	0	0.3
			HR(I)	16		0	0	0.5	0	0	
(8) Physical Layout of Rear Area	CGSC/NP	LT SL 2/2	LT SL	3	2	1	2	2	2	3	2.1
		HR(S) 4/4	HR(S)	2	xx	4	2	10	4	1	3.8
			HR(P)	2	yy	0	0	4	0.5	0	1.1
			HR(I)	0	zz	0	0	0	2	0	
(9) Physical Layout of Rear Area	CGSC/NP	CPT SL 2/2	CPT SL	1	1	1	1	1	1	1	1
		HR(S) 4/2	HR(S)	3	aaa	4	4	4	4	1	3.3
			HR(P)	0		0	0	1	1	0	0.3
			HR(I)	0		0	0	0	0.2	0	

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SUBJECT	Proposed	Proposed Sufficiency Level/ Hours Required	LT	SL	LT	SL	OD	MM	AG	FI	CM	TC	MS	CSS MEAN
11. Leadership	COSC	1 HR(S) 30	LT	SL	LT	SL	2	2	1	2	1	2	2	1.7
							29	P	40	40	34	10	10	27.2
							24	Q	40	40	20	4	5	22.2
							0	R	0	0	15	4	0	
							1	1	1	1	1	2	1	1.1
							32	S	40	16	46	7	40	30.2
							72		40	40	45	24	40	43.5
							0		0	0	25	12	0	
			CPT	SL	1 HR(S) 50	CPT	311.4	198	218	197	836	312.9	201.3	324.8
							136.3	161	111	94	517	283.9	105.6	201.3
							93.5	58	35	35	266	146.6	9	
TOTAL HOURS	LT	HR(S) HR(P) HR(I)	CPT	HR(S) HR(P) HR(I)	385 252.2 368	278	226	237	237	226	1342	324.2	242.1	433.5
							96	116	96	96	548.5	317.1	119.6	241.6
							20	29	20	20	205.5	44.2	35	

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FOOTNOTES

- a. Initial Entry Rotary Wing Course data used for Aviation LT, and Warrant Officer Advanced Course data used for Aviation CPT.
- b. Proponent recommended sufficiency level and hours used to compute the mean.
- c. Field Artillery indicates 15 hours required for Offensive Operations in OBC.
- d. Field Artillery indicates 22 hours required for Offensive Operation in OAC.
- e. Field Artillery indicates 15 hours required for Defensive Operations in OBC.
- f. Field Artillery indicates 27 hours required for Defensive Operations in OAC.
- g. Field Artillery indicates 9 hours required for Reconnaissance and Security Operations in OAC.
- h. Field Artillery indicates 4 hours required for Air Defense in OAC.
- i. Field Artillery indicates 4 hours required for Engineer Operations in OAC.
- j. Signal School data does not reflect SC 72 data.
- k. Signal School indicates 1 hour required for Defensive Doctrine and Fundamentals in OBC and OAC.
- l. Signal School devotes 0.5 hours to Defensive Doctrine and Fundamentals in OBC.
- m. Signal School devotes 3 hours to Defensive Doctrine and Fundamentals in OAC.
- n. Signal School devotes 1 hour to Defensive Doctrine and Fundamentals in OAC.
- o. Missile and Munitions OAC POI data not available.
- p. Missile and Munitions indicates 40 hours required for Organizational Basics in OBC.
- q. Missile and Munitions devotes 40 hours for Organizational Basics in OBC.
- r. Missile and Munitions devotes 18 hours for Organizational Basics in OBC.
- s. Missile and Munitions indicates 55 hours required for Organizational Basics in OAC.
- t. Missile and Munitions indicates 3 hours required for Electronic Warfare in OBC.
- u. Missile and Munitions indicates 9 hours required for Electronic Warfare in OAC.
- v. Missile and Munitions indicates 12 hours required for Tactical Basics in OBC.
- w. Missile and Munitions indicates 9 hours required for Tactical Basics in OAC.
- x. Missile and Munitions indicates 3 hours required for Intelligence in OBC.

- y. Missile and Munitions devotes 1 hour to Intelligence in OBC.
- z. Missile and Munitions indicates 5 hours required for Intelligence in OAC.
- aa. Missile and Munitions indicates 4 hours required for AD in OBC.
- bb. Missile and Munitions indicates 8 hours required for AD in OAC.
- cc. Missile and Munitions indicates 5 hours required for Threat in OBC.
- dd. Missile and Munitions devotes 6 hours to Threat in OBC.
- ee. Missile and Munitions indicates 8 hours required for Threat in OAC.
- ff. Missile and Munitions indicates 5 hours required for Offensive Operations in OBC.
- gg. Missile and Munitions indicates 5 hours required for Offensive Operations in OAC.
- hh. Missile and Munitions indicates 5 hours required for Defensive Operations in OBC.
- ii. Missile and Munitions indicates 9 hours required for Defensive Operations in OAC.
- jj. Missile and Munitions indicates 2 hours required for Retrograde Operations in OAC.
- kk. Missile and Munitions indicates 3 hours required for Reconnaissance and Security Operations in OAC.
- ll. Missile and Munitions indicates 2 hours required for USA Operational Concepts in OBC.
- mm. Missile and Munitions indicates 3 hours required for USA Operational Concepts in OAC.
- nn. Missile and Munitions indicates 1 hour required for Engineer Operations in OBC.
- oo. Missile and Munitions indicates 5 hours required for Engineer Operations in OAC.
- pp. Missile and Munitions indicates 1 hour required for Army Aviation in OBC.
- qq. Missile and Munitions devotes 1 hour to Army Aviation in OBC.
- rr. Missile and Munitions indicates 3 hours required for Army Aviation in OAC.
- ss. Missile and Munitions indicates 5 hours required for Transportation in OBC.
- tt. Missile and Munitions indicates 18 hours required for Transportation in OAC.
- uu. Missile and Munitions indicates 11 hours required for Manpower in OBC.
- vv. Missile and Munitions indicates 6 hours required for Manpower in OAC.
- ww. Missile and Munitions indicates 4 hours required for Special Environments in OAC.
- xx. Missile and Munitions indicates 20 hours required for Rear Area Combat Operations in OBC.

- yy. Missile and Munitions devotes 10 hours to RACO in OBC.
- zz. Missile and Munitions devotes 12 hours to RACO in OBC.
- aaa. Missile and Munitions indicates 12 hours required for RACO in OAC.
- bbb. Infantry School indicates subject integrated throughout 419 hours of FTX's.
- ccc. Infantry School indicates subject included in Defensive Operations.
- ddd. Infantry School indicates subject emphasized throughout the course.
- eee. Infantry School indicates 8 hours required for Defense in OBC.
- fff. Infantry School devotes 3 hours to Defense in OBC.
- ggg. Infantry School indicates 9 hours required for Defense in OAC.
- hhh. Infantry School devotes 1 hour to Defense in OAC.
- jjj. Infantry School indicates subject included in Patrolling.

ANNEX G

COMBINED ARMS SUBJECTS RATED HIGH BY SERVICE SCHOOLS

ANNEX G-1

COMBINED ARMS SUBJECTS FOR OFFICER BASIC COURSES

(RATED BY THE SERVICE SCHOOLS AT SUFFICIENCY LEVEL 1 AND SUFFICIENCY LEVEL 2)

ANNEX G-1

COMBAT ARMS MANEUVER OBC COMBINED ARMS SUBJECTS RATED AT SUFFICIENCY LEVEL 1 AND 2

<u>SUBJECTS</u>	<u>RECOMMENDED SUFFICIENCY LEVEL</u>	<u>AVERAGE TIME REQUIRED HR(S)</u>
1. Doctrinal Basics		
a. USA Airland Battle Operational Concept	2	3
b. Organization/Preparation for Combat	2	12
2. Command, Control and Communications (C ³)		
a. Decision Making	2	5
b. Plans, Orders, Estimates, Graphics, Records and Reports	2	13
c. Command and Control Communications (C ³)	2	6
3. Intelligence and Electronic Warfare		
a. Tactical Intelligence	2	3
b. Electronic Warfare		
(1) ECM	2	2
4. Air Defense		
a. Unit Active AD Measures	2	2
b. Unit Passive AD Measures	2	1
5. Close Combat		
a. Fundamentals of Combat (Tactical Basics)		
(1) Battlefield Movement	2	10
(2) OPSEC (includes SIGSEC)	2	8
(3) Passage of Lines	2	4
(4) Operations During Obscured Battlefield Conditions (To include Smoke Operations)	2	36

<u>SUBJECTS</u>	<u>RECOMMENDED SUFFICIENCY LEVEL</u>	<u>AVERAGE TIME REQUIRED HR(S)</u>
b. Threat		
(1) Offensive Operations	2	2
(2) Defensive Operations	2	2
c. Offensive Operations		
(1) Concepts/Fundamentals	2	8
(2) Movement to Contact	2	8
(3) Hasty Attack	2	8
(4) Deliberate Attack	2	8
(5) MOUT Operations	2	7
d. Defensive Operations		
(1) Concepts/Fundamentals		
(a) Covering Force Area	2	2
(b) Main Battle Area	2	2
(2) Defense in Sector	2	4
(3) Defense from Battle Positions		
(a) Linear	2	4
(b) Perimeter	2	4
(4) Defense In-Depth	2	4
(5) Strong Points	2	1
(6) Counterattack	2	3
(7) MOUT Operations	2	7
e. Retrograde Operations		
(1) Delay	2	4
(2) Withdrawal	2	4
f. Reconnaissance and Security Operations		
(1) Concepts/Fundamentals	2	4

<u>SUBJECTS</u>	<u>RECOMMENDED SUFFICIENCY LEVEL</u>	<u>AVERAGE TIME REQUIRED HR(S)</u>
6. Fire Support		
a. Indirect Fire Support		
(1) Request and Adjust Indirect Fire	2	15
(2) FA Organization, Command and Control	2	2
b. Close Air Support	2	3
7. Engineer Operations (Combat Support)		
a. Mobility	2	1
b. Countermobility	2	4
c. Survivability	2	5
8. Army Aviation		
a. Combat Aviation	2	3
b. Combat Support Aviation	2	3
9. Combat Service Support		
a. Transportation Operations (Convoy Operations)	2	1
b. Maintenance Operations		
(1) Recovery and Evacuation	2	6
(2) Command and Staff Management of Preventive Maintenance	2	3
(3) The Army Maintenance Management System	2	6
c. Medical Services		
(1) First Aid	1	2
(2) Medical Evacuation	2	1
10. Special/Other Operations		
a. Airmobile Operations	2	13
b. MOUT	2	7
c. River Crossing Operations	2	3
11. Leadership	2	33

ANNEX G-1

COMBAT ARMS NON-MANEUVER OBC COMBINED ARMS SUBJECTS RATED AT SUFFICIENCY LEVEL 1 AND 2

<u>SUBJECTS</u>	<u>RECOMMENDED SUFFICIENCY LEVEL</u>	<u>AVERAGE TIME REQUIRED HR(S)</u>
1. Doctrinal Basics		
a. Principles of War	2	1
b. USA Airland Battle Operational Concept	2	4
c. Organization/Preparation for Combat	2	4
2. Command, Control and Communications (C ³)		
a. Staff Procedures in Combat	2	3
b. Decision Making	2	3
c. C ³ CM	2	10
d. Plans, Orders, Estimates, Graphics, Records and Reports	2	6
e. Command and Control Communications (C ³)	2	4
3. Intelligence and Electronic Warfare		
a. ECM	2	1
4. Air Defense		
a. Unit Active AD Measures	2	1
b. Unit Passive AD Measures	2	1
5. Close Combat		
a. Tactical Basics		
(1) OPSEC (includes SIGSEC)	2	3
(2) Operations During Obscured Battlefield Conditions (To include Smoke Operations)	2	10
(3) Battlefield Movement	2	4

<u>SUBJECTS</u>	<u>RECOMMENDED SUFFICIENCY LEVEL</u>	<u>AVERAGE TIME REQUIRED HR(S)</u>
b. Threat		
(1) Missions/Roles of Threat Armed Forces	2	4
(2) Organization/Equipment	2	4
(3) Offensive Operations	2	4
(4) Defensive Operations	2	4
(5) Combat Support	2	3
(6) Special Operations	2	3
c. Offensive Operations		
(1) Concepts/Fundamentals	2	2
(2) Movement to Contact	2	1
(3) Hasty Attack	2	1
(4) Deliberate Attack	2	1
(5) Exploitation	2	1
(6) Pursuit	2	1
(7) Relief of Encircled Forces	2	1
(8) Reconnaissance in Force	2	1
(9) MOUT Operations	2	1
d. Defensive Operations		
(1) Concepts/Fundamentals		
(a) Covering Force Area	2	2
(b) Main Battle Area	2	2
(c) Rear Area	2	2
(2) Defense In Sector	2	1
(3) Defense From Battle Positions		
(a) Linear	2	2

<u>SUBJECTS</u>	<u>RECOMMENDED SUFFICIENCY LEVEL</u>	<u>AVERAGE TIME REQUIRED HR(S)</u>
(b) Perimeter	2	5
(4) In-Depth	2	2
(5) Strong Points	2	2
(6) Counterattack	2	1
(7) MOUT Operations	2	1
6. Fire Support		
a. Request and Adjust Indirect Fire	2	3
b. Close Air Support	2	5
7. Combat Service Support		
a. Logistics Operations (Supply)	2	10
b. Transportation Operations (Convoy Operations)	2	1
c. Maintenance Operations		
(1) Recovery and Evacuation	2	2
(2) Command and Staff Mgmt of Preventive Maintenance	2	4
(3) The Army Maintenance Mgmt System (TAMMS)	1	6
d. Medical Services		
(1) First Aid	2	4
(2) Medical Evacuation	2	1
8. Special/Other Operations		
a. Tactical Deception Ops	2	1
9. Leadership	1	27

ANNEX G-1

COMBAT SUPPORT OBC COMBINED ARMS SUBJECTS RATED AT SUFFICIENCY LEVEL 1 AND 2

<u>SUBJECTS</u>	<u>RECOMMENDED SUFFICIENCY LEVEL</u>	<u>AVERAGE TIME REQUIRED HR(S)</u>
1. Doctrinal Basics		
a. Principles of War	2	1
b. USA Airland Battle Operational Concept	2	5
c. Organization/Preparation for Combat	2	10
2. Command, Control and Communications (C ³)		
a. Staff Procedures in Combat	2	5
b. Decision Making	2	8
c. Plans, Orders, Graphics, Records, Reports	2	12
d. Command, Control and Communications (C ³)	2	4
e. Command, Control and Communications Countermeasures (C ³ CM)	2	1
3. Intelligence and Electronic Warfare		
a. Tactical Intelligence	2	2
b. HUMINT	2	1
c. Intelligence Preparation of the Battlefield (IPB)	2	1
d. Tactical All-Source Intelligence Production	2	1
4. Close Combat		
a. Tactical Basics		
(1) Battlefield Movement	2	10
(2) OPSEC (to include SIGSEC)	2	4
(3) Passage of Lines	2	1

<u>SUBJECTS</u>	<u>RECOMMENDED SUFFICIENCY LEVEL</u>	<u>AVERAGE TIME REQUIRED HR(S)</u>
(4) Operations During Obscured Battlefield Conditions (to include Smoke Operations)	2	8
(5) Patrolling	2	15
b. Threat Background		
(1) Missions/Roles of the Armed Forces	2	1
(2) Organization/Equipment	2	2
(3) Offensive Operations	2	3
(4) Defensive Operations	2	3
(5) Combat Support	2	3
(6) Special Operations	2	2
c. Offensive Operations		
(1) Concepts/Fundamentals	2	3
(2) Movement to Contact	2	1
(3) Hasty Attack	2	1
(4) Deliberate Attack	2	2
(5) Exploitation	2	1
(6) Pursuit	2	1
(7) MOUT	2	3
d. Defensive Operations		
(1) Concepts/Fundamentals		
(a) Covering Force Area	2	2
(b) Main Battle Area	2	2
(c) Rear Area	2	2
(2) Defense in Sector	2	1
(3) Defense from Battle Positions		

<u>SUBJECTS</u>	<u>RECOMMENDED SUFFICIENCY LEVEL</u>	<u>AVERAGE TIME REQUIRED HR(S)</u>
(a) Perimeter	2	3
(4) MOUT	2	3
e. Reconnaissance and Security Operations		
(1) Reconnaissance	2	3
5. Fire Support		
a. Indirect Fire Support		
(1) Request/Adjust Fire	2	5
(2) Organization, Command and Control of Artillery	2	2
d. Close Air Support	2	2
6. Combat Service Support		
a. Logistics Operations (Supply)	2	15
b. Field Services	2	1
c. Maintenance Operations		
(1) Recovery and Evacuation	2	1
(2) Command & Staff Mgmt of Prev Maintenance	2	2
(3) The Army Maintenance Mgmt System (TAMMS)		
d. Personnel and Administration Operations		
(1) Accountability	2	1
(2) Casualty Reporting	2	1
e. Medical Services		
(1) First Aid	2	5
(2) Medical Evacuation	2	1
7. Special/Other Operations		
a. Counterterror Operations	2	4
b. Airmobile	2	1
c. River Crossing	2	2
8. Leadership	2	49

ANNEX G-1

COMBAT SERVICE SUPPORT OBC COMBINED ARMS SUBJECTS RATED AT SUFFICIENCY LEVEL 1 AND 2

<u>SUBJECTS</u>	<u>RECOMMENDED SUFFICIENCY LEVEL</u>	<u>AVERAGE TIME REQUIRED HR(S)</u>
1. Doctrinal Basics		
a. Principles of War	2	2
b. USA Airland Battle Operational Concept	2	4
c. Organization/Preparation for Combat	2	5
2. Command, Control and Communications (C ³)		
a. Staff Procedures in Combat	2	5
b. Decision Making	2	5
c. Plans, orders, graphics, records, reports	2	5
d. Command, Control and Communications (C ³)	2	5
3. Air Defense		
a. Unit Active AD Measures	2	2
b. Unit Passive AD Measures	2	2
4. Close Combat		
a. Tactical Basics		
(1) Battlefield Movement	2	5
(2) OPSEC (To include SIGSEC)	2	4
(3) Operations During Obscured Battlefield Conditions (To include Smoke Operations)	2	5
(4) Patrolling	2	8
b. Threat Background		
(1) Missions/Roles of the Armed Forces	2	2

<u>SUBJECTS</u>	<u>RECOMMENDED SUFFICIENCY LEVEL</u>	<u>AVERAGE TIME REQUIRED HR(S)</u>
(2) Organization/Equipment	2	2
c. Offensive Operations		
(1) Concepts/Fundamentals	2	2
d. Defensive Operations		
(1) Concepts/Fundamentals		
(a) Rear Area	2	5
(2) Defense In Sector	2	5
(3) Defense from Battle Positions	2	2
(a) Perimeter	2	4
(4) Strong Points	2	1
5. Fire Support		
a. Indirect Fire Support		
(1) Request/Adjust Fire	2	3
6. Combat Service Support		
a. Logistics Operations		
(1) Supply	2	24
(2) Ammo Support Structure & Requisitioning	2	2
b. Transportation Operations		
(1) Convoy Operations	2	3
(2) Movement Control	2	3
c. Field Services	2	2
d. Maintenance Operations		
(1) Recovery and Evacuation	2	5
(2) Command & Staff Mgmt of Preventive Maintenance	2	4
(3) The Army Maintenance Management System (TAMMS)	2	6
e. Personnel and Administration Operations		
(1) Accountability	2	3

<u>SUBJECTS</u>	<u>RECOMMENDED SUFFICIENCY LEVEL</u>	<u>AVERAGE TIME REQUIRED HR(S)</u>
(2) Casualty Reporting	2	1
f. Medical Services		
(1) First Aid	2	4
(2) Medical Evacuation	2	2
7. Special/Other Operations		
a. Rear Area Ops		
(1) Organization for Combat	2	4
(2) Perimeter Defense	2	7
(3) Active/Passive Security	2	4
(4) Weapons Employment	2	4
(5) Physical Layout of Rear Area	2	4
8. Leadership	2	27

ANNEX G-2

COMBINED ARMS SUBJECTS FOR OFFICER ADVANCED COURSES
(RATED BY THE SERVICE SCHOOLS AT SUFFICIENCY LEVEL 1 AND SUFFICIENCY LEVEL 2)

ANNEX G-2

COMBAT ARMS MANEUVER OAC COMBINED ARMS SUBJECTS RATED AT SUFFICIENCY LEVEL 1 AND 2

<u>SUBJECTS</u>	<u>RECOMMENDED SUFFICIENCY LEVEL</u>	<u>AVERAGE TIME REQUIRED HR(S)</u>
1. Doctrinal Basics		
a. Principles of War	2	2
b. USA Airland Battle Operational Concept	2	5
c. Organization/Preparation for Combat	1	36
2. Command, Control and Communications (C ³)		
a. Staff Procedures in Combat	2	9
b. Decision Making	2	6
c. Plans, Orders, Estimates, Graphics Records and Reports	1	15
d. Command and Control Communications (C ³)	2	8
3. Intelligence and Electronic Warfare		
a. Tactical Intelligence	2	8
b. Electronic Warfare		
(1) ESM	2	1
(2) ECM	2	1
c. Tactical All-Source Intelligence Production	2	3
d. Intelligence Preparation of the Battlefield	2	4
4. Air Defense		
a. SHORAD	2	1
b. Manportable AD Systems	2	1
c. Unit Active AD Measures	2	1
d. Unit Passive AD Measures	2	1

<u>SUBJECTS</u>	<u>RECOMMENDED SUFFICIENCY LEVEL</u>	<u>AVERAGE TIME REQUIRED HR(S)</u>
5. Close Combat		
a. Fundamentals of Combat (Tactical Basics)		
(1) Battlefield Movement	1	12
(2) OPSEC (includes SIGSEC)	2	9
(3) Operations During Obscured Battlefield Conditions (To include Smoke Operations)	2	13
(4) Patrolling	2	3
b. Threat		
(1) Missions/Roles of Threat Armed Forces	2	2
(2) Organization/Equipment	2	3
(3) Offensive Operations	1	6
(4) Defensive Operations	1	4
(5) Combat Support	2	11
c. Offensive Operations		
(1) Concepts/Fundamentals	1	5
(2) Movement to Contact	1	6
(3) Hasty Attack	1	6
(4) Deliberate Attack	1	26
(5) Exploitation	2	1
(6) Pursuit	2	1
(7) Relief of Encircled Forces	2	2
(8) Reconnaissance in Force	2	4
(9) MOUT Operations	2	11
d. Defensive Operations		
(1) Concepts/Fundamentals		

<u>SUBJECTS</u>	<u>RECOMMENDED SUFFICIENCY LEVEL</u>	<u>AVERAGE TIME REQUIRED HR(S)</u>
(a) Covering Force Area	2	2
(b) Main Battle Area	2	2
(c) Rear Area	2	2
(2) Defense in Sector	2	12
(3) Defense from Battle Positions		
(a) Linear	2	1
(b) Perimeter	2	2
(4) In-Depth	2	25
(5) Strong Points	2	2
(6) Counterattack	2	4
(7) Breakout/Linkup	2	3
(8) MOUT Operations	2	11
e. Retrograde Operations		
(1) Delay	2	6
(2) Withdrawal	2	3
f. Reconnaissance and Security Operations		
(1) Concepts/Fundamentals	2	2
(2) Reconnaissance	2	5
(3) Security	2	6
(4) Economy of Force	2	4
6. Fire Support		
a. Indirect Fire Support		
(1) Request and Adjust Fire	1	9
(2) FA Organization, Command and Control	1	6
(3) FA Priority Support in Airland Battle	2	1

<u>SUBJECTS</u>	<u>RECOMMENDED SUFFICIENCY LEVEL</u>	<u>AVERAGE TIME REQUIRED HR(S)</u>
b. Close Air Support	1	4
c. SEAD	2	2
7. Engineer Operations (Combat Support)		
a. Mobility	2	2
b. Countermobility	2	5
c. Survivability	2	2
8. Army Aviation		
a. Combat Aviation	1	6
b. Combat Support Aviation	2	7
c. Combat Service Support Aviation	2	2
9. Combat Service Support		
a. Logistics Operations		
(1) Supply	2	16
(2) Resupply/Basic Load Considerations	2	2
b. Transportation Operations	2	2
c. Maintenance Operations		
(1) Recovery and Evacuation	2	3
(2) Command and Staff Mgmt of PM	2	13
(3) The Army Maintenance Mgmt System	2	10
d. Personnel and Administration Operations		
(1) Accountability	2	1
(2) Casualty Reporting	2	1
e. Medical Services	2	2
10. Special/Other Operations		
a. Airmobile Operations	2	14
b. Operations in Special Terrain		

<u>SUBJECTS</u>	<u>RECOMMENDED SUFFICIENCY LEVEL</u>	<u>AVERAGE TIME REQUIRED HR(S)</u>
(1) Desert Operations	2	3
(2) Jungle Operations	2	3
(3) Mountain Operations	2	3
(4) Northern Regions	2	2
(5) MOUT	2	11
c. River Crossing Operations	2	5
d. Tactical Deception Operations	2	2
11. Leadership	1	55

ANNEX G-2

COMBAT ARMS NON-MANEUVER OAC COMBINED ARMS SUBJECTS RATED AT SUFFICIENCY LEVEL 1 AND 2

<u>SUBJECTS</u>	<u>RECOMMENDED SUFFICIENCY LEVEL</u>	<u>AVERAGE TIME RQUIRED HR(S)</u>
1. Doctrinal Basics		
a. Principles of War	2	2
b. USA Airland Battle Operational Concept	2	9
c. Organization/Preparation for Combat	1	25
2. Command, Control, and Communications (C ³)		
a. Staff Procedures in Combat	2	22
b. Decision Making	1	24
c. Plans, Orders, Estimates, Graphics, Records and Reports	2	40
d. Command and Control Communications (C ³)	2	23
e. Command, Control and Communications Countermeasures (C ³ CM)	2	7
f. Airspace Management	2	6
3. Intelligence and Electronic Warfare		
a. Tactical Intelligence	2	8
b. Electronic Warfare		
(1) ESM	2	3
(2) ECM	2	2
4. Air Defense		
a. Unit Active AD Measures	2	1
b. Unit Passive AD Measures	2	1
5. Close Combat		
a. Fundamentals of Combat (Tactical Basics)		

<u>SUBJECTS</u>	<u>RECOMMENDED SUFFICIENCY LEVEL</u>	<u>AVERAGE TIME REQUIRED HR(S)</u>
(1) Battlefield Movement	2	10
(2) OPSEC (includes SIGSEC)	2	5
(3) Passage of Lines	2	2
(4) Operations During Obscured Battlefield Conditions (To include Smoke Operations)	2	5
b. Threat		
(1) Missions/Roles of Threat Armed Forces	2	8
(2) Organization/Equipment	2	9
(3) Offensive Operations	2	8
(4) Defensive Operations	2	8
(5) Combat Support	2	9
(6) Special Operations	2	7
c. Offensive Operations		
(1) Concepts/Fundamentals	2	4
(2) Movement to Contact	2	2
(3) Hasty Attack	2	2
(4) Deliberate Attack	2	4
(5) Exploitation	2	2
(6) Pursuit	2	2
(7) Relief of Encircled Forces	2	1
(8) Reconnaissance in Force	2	1
(9) MOUT Operations	2	2
d. Defensive Operations		
(1) Concepts/Fundamentals		

<u>SUBJECTS</u>	<u>RECOMMENDED SUFFICIENCY LEVEL</u>	<u>AVERAGE TIME REQUIRED HR(S)</u>
(a) Covering Force Area	2	5
(b) Main Battle Area	1	12
(c) Rear Area	1	5
(2) Defense in Sector	2	15
(3) Defense from Battle Positions		
(a) Linear	2	3
(b) Perimeter	2	3
(4) In-Depth	2	4
(5) Strong Points	2	4
(6) Counterattack	2	2
(7) Breakout/Link Up	2	2
(8) MOUT Operations	2	2
e. Retrograde Operations		
(1) Delay	2	5
f. Reconnaissance and Security Operations		
(1) Concepts/Fundamentals	2	2
(2) Reconnaissance	2	1
(3) Security	2	2
(4) Economy of Force	2	2
6. Fire Support		
a. Indirect Fire Support		
(1) Request and Adjust Indirect Fire	2	4
(2) FA Priority Support in Airland Battle	2	2

<u>SUBJECTS</u>	<u>RECOMMENDED SUFFICIENCY LEVEL</u>	<u>AVERAGE TIME REQUIRED HR(S)</u>
b. Close Air Support	2	6
c. SEAD	2	2
7. Engineer Operations (Combat Support)		
a. Mobility	2	1
b. Countermobility	2	1
c. Survivability	2	1
8. Combat Service Support		
a. Logistics Operations		
(1) Supply	2	12
(2) Resupply/Basic Load Considerations	2	3
b. Transportation Operations	2	2
c. Maintenance Operations		
(1) Recovery and Evacuation	2	2
(2) Command and Staff Management of Preventive Maintenance	1	7
(3) The Army Maintenance Mgmt System (TAMMS)	1	11
d. Personnel and Administration Operations	2	3
e. Medical Services	2	4
f. Reconstitution of Ineffective Units	2	2
9. Special/Other Operations		
a. River Crossing Operations	2	4
b. Tactical Deception Operations	2	2
c. Rear Area Combat Operations		
(1) Organization for Combat	2	13
(2) Perimeter Defense	2	1
(3) Active/Passive Security	2	1
(4) Weapons Employment	2	2
10. Leadership	1	43

ANNEX G-2

COMBAT SUPPORT OAC COMBINED ARMS SUBJECTS RATED AT SUFFICIENCY LEVEL 1 AND 2

<u>SUBJECTS</u>	<u>RECOMMENDED SUFFICIENCY LEVEL</u>	<u>AVERAGE TIME REQUIRED HR(S)</u>
1. Doctrinal Basics		
a. Principles of War	1	3
b. USA Airland Battle Operational Concept	2	8
c. Organization/Preparation for Combat	2	7
d. Force Modernization	2	4
(1) New Equipment		
(2) New Organization		
2. Command, Control, and Communications (C ³)		
a. Staff Procedures in Combat	1	7
b. Decision Making	1	4
c. Plans, Orders, Estimates, Graphics, Records and Reports	1	10
d. Command and Control Communications (C ³)	1	10
e. Command, Control and Communications Countermeasures (C ³ CM)	2	6
3. Intelligence and Electronic Warfare		
a. Tactical Intelligence	2	4
b. Intelligence Preparation of the Battlefield	2	3
c. Tactical All-Source Intelligence Production	2	1
(1) SIGINT	2	1
(2) HUMINT	2	1
(3) CI	2	1

<u>SUBJECTS</u>	<u>RECOMMENDED SUFFICIENCY LEVEL</u>	<u>AVERAGE TIME REQUIRED HR(S)</u>
4. Air Defense		
a. SHORAD	2	1
b. Manportable AD Systems	2	1
c. Unit Active AD Measures	2	1
d. Unit Passive AD Measures	2	1
5. Close Combat		
a. Fundamentals of Combat (Tactical Basics)		
(1) Battlefield Movement	2	5
(2) OPSEC (includes SIGSEC)	1	4
(3) Passage of Lines	2	1
(4) Operations During Obscured Battlefield Conditions (To include Smoke Operations)	2	8
(5) Patrolling	2	1
b. Threat		
(1) Missions/Roles of Threat Armed Forces	2	2
(2) Organization/Equipment	2	3
(3) Offensive Operations	2	3
(4) Defensive Operations	2	2
(5) Combat Support	2	5
(6) Special Operations	2	2
c. Offensive Operations		
(1) Concepts/Fundamentals	2	4
(2) Movement to Contact	2	2

<u>SUBJECTS</u>	<u>RECOMMENDED SUFFICIENCY LEVEL</u>	<u>AVERAGE TIME REQUIRED HR(S)</u>
(3) Hasty Attack	2	2
(4) Deliberate Attack	2	1
(5) Exploitation	2	1
(6) Pursuit	2	1
(7) MOUT Operations	2	1
d. Defensive Operations		
(1) Concepts/Fundamentals		
(a) Covering Force Area	2	2
(b) Main Battle Area	1	4
(c) Rear Area	1	3
(2) Defense in Sector	2	1
(3) Defense from Battle Positions		
(a) Linear	2	1
(b) Perimeter	2	1
(4) In-Depth	2	2
(5) Strong Points	2	1
(6) Counterattack	2	1
(7) Breakout/Link Up	2	.5
(8) MOUT Operations	2	1
e. Retrograde Operations		
(1) Delay	2	1
(2) Withdrawal	2	1
(3) Retirement	2	2

<u>SUBJECTS</u>	<u>RECOMMENDED SUFFICIENCY LEVEL</u>	<u>AVERAGE TIME REQUIRED HR(S)</u>
f. Reconnaissance and Security Operations		
(1) Concepts/Fundamentals	2	1
(2) Reconnaissance	2	2
(3) Security	2	.5
6. Fire Support		
a. Indirect Fire Support		
(1) Request and Adjust Indirect Fire	2	4
(2) FA Organization, Command & Control	2	3
b. Close Air Support	2	2
7. Combat Service Support		
a. Logistics Operations		
(1) Supply	2	21
b. Transportation Operations	2	3
c. Maintenance Operations		
(1) Recovery and Evacuation	2	1
(2) Command & Staff Mgmt of Preventive Maintenance	2	2
(3) The Army Maintenance Mgmt System (TAMMS)	2	7
e. Medical Services	2	6
f. Reconstitution of Ineffective Units	2	1
8. Special/Other Operations		
a. Low Intensity Conflict		
(1) Counterinsurgency Operations	2	1
(2) Counterterror Operations	2	3
b. Civil Affairs Operations	2	1
c. Airmobile Operations	2	1
d. River Crossing Operations	2	3

<u>SUBJECTS</u>	<u>RECOMMENDED SUFFICIENCY LEVEL</u>	<u>AVERAGE TIME REQUIRED HR(S)</u>
e. Tactical Deception Operations	2	2
f. Rear Area Operations		
(1) Organization for Combat	2	1
(2) Perimeter Defense	2	2
(3) Active/Passive Security	2	1
(4) Weapons Employment	2	4
(5) Physical Layout of Rear Area	2	1
9. Leadership	1	38

ANNEX G-2

COMBAT SERVICE SUPPORT OAC COMBINED ARMS SUBJECTS RATED AT SUFFICIENCY LEVEL 1 AND 2

<u>SUBJECTS</u>	<u>RECOMMENDED SUFFICIENCY LEVEL</u>	<u>AVERAGE TIME REQUIRED HR(S)</u>
1. Doctrinal Basics		
a. Principles of War	2	2
b. USA Airland Battle Operational Concept	2	3
c. Organization/Preparation for Combat	2	3
d. Strategic Deployment	2	5
2. Command, Control and Communications (C ³)		
a. Staff Procedures in Combat	2	8
b. Decision Making	1	6
c. Plans, Orders, Estimates, Graphics, Records and Reports	1	6
d. Command and Control Communications (C ³)	1	4
3. Intelligence and Electronic Warfare		
a. Tactical Intelligence	2	2
4. Air Defense		
a. SHORAD	2	1
b. Manportable AD Systems	2	1
c. Non-Divisional AD Systems	2	1
d. Unit Active AD Measures	2	2
e. Unit Passive AD Measures	2	2
f. AD Priority Support in the Airland Battle	2	1
5. Close Combat		
a. Fundamentals of Combat (Tactical Basics)		
(1) Battlefield Movement	2	4
(2) OPSEC (includes SIGSEC)	2	4

<u>SUBJECTS</u>	<u>RECOMMENDED SUFFICIENCY LEVEL</u>	<u>AVERAGE TIME REQUIRED HR(S)</u>
(3) Operations During Obscured Battlefield Conditions (To include Smoke Operations)	2	4
(4) Patrolling	2	3
b. Threat		
(1) Missions/Roles of Threat Armed Forces	2	2
(2) Organization/Equipment	2	2
(3) Offensive Operations	2	2
(4) Defensive Operations	2	2
(5) Combat Support	2	2
(6) Special Operations	2	1
c. Offensive Operations		
(1) Concepts/Fundamentals	2	3
(2) Hasty Attack	2	1
(3) MOUT Operations	2	4
d. Defensive Operations		
(1) Concepts/Fundamentals		
(a) Covering Force Area	2	1
(b) Main Battle Area	2	2
(c) Rear Area	2	2
(2) Defense in Sector	2	2
(3) Defense from Battle Positions		
(a) Linear	2	1
(b) Perimeter	2	4
(4) In-Depth	2	1

<u>SUBJECTS</u>	<u>RECOMMENDED SUFFICIENCY LEVEL</u>	<u>AVERAGE TIME REQUIRED HR(S)</u>
(5) Counterattack	2	1
(6) MOUT Operations	2	4
6. Fire Support		
a. Indirect Fire Support		
(1) Request and Adjust Indirect Fire	2	2
(2) FA Priority Support in Airland Battle	2	1
7. Army Aviation		
a. Combat Service Support Aviation	2	2
8. Combat Service Support		
a. Logistics Operations		
(1) Supply	1	13
(2) Resupply/Basic Load Considerations	2	3
b. Transportation Operations	2	5
c. Field Services Operations	2	3
d. Maintenance Operations		
(1) Recovery and Evacuation	2	3
(2) Command & Staff Mgmt of Preventive Maintenance	1	4
(3) The Army Maintenance Mgmt System (TAMMS)	1	4
e. Personnel and Administration Operations	2	6
f. Medical Services	2	5
g. Reconstitution of Ineffective Units	2	2
9. Special/Other Operations		
a. Rear Area Combat Operations		
(1) Organization for Combat	1	3
(2) Perimeter Defense	1	3
(3) Active/Passive Security	1	3
(4) Weapons Employment	1	3
(5) Physical Layout of Rear Area	1	3
10. Leadership	1	30

ANNEX H

COMBINED ARMS SUBJECTS RATED AT
SUFFICIENCY LEVEL 3 AND 4

ANNEX H-1

**COMBINED ARMS SUBJECTS FOR OFFICER BASIC COURSE
RATED BY THE SERVICE SCHOOLS AT SUFFICIENCY LEVEL 3 AND SUFFICIENCY LEVEL 4**

ANNEX H-1

COMBAT ARMS MANEUVER OBC COMBINED ARMS SUBJECTS RATED AT
SUFFICIENCY LEVEL 3 AND LOWER

	<u>SUBJECTS</u>	<u>RECOMMENDED SUFFICIENCY LEVEL</u>	<u>AVERAGE TIME REQUIRED HR(S)</u>
1a	Principles of War	3	2
1e	Force Modernization	3	4
1f	Strategic Deployment	4	0
2a	Staff Procedures in Combat	3	5
2f	C3CM	3	10
2g	Airspace Management	4	0
3b	ESM	3	1
3c	Intelligence Preparation of the Battlefield	3	1
3d	Tactical All-Source Intelligence Production	3	.5
3d(1)	Signals Intelligence	4	0
3d(2)	Imagery Intelligence	3	1
3d(3)	Human Intelligence	3	1
3d(4)	Tactical Counterintelligence	3	1
4a	SHORAD	3	1
4b	Manportable AD Systems	3	1
4c	Non-Divisional AD Systems	3	1
4f	AD Priority Support in the Airland Battle	4	0
4g	AD Land Space Requirements in MBA/CFA	4	0
5a(5)	Patrolling	3	26
5b(1)	Mission/Role of Threat Armed Forces	3	1
5b(2)	Threat Organization/Equipment	3	4
5b(5)	Threat Combat Support	3	4
5b(6)	Threat Special Operations	3	1
5c(5)	Exploitation	4	0
5c(6)	Pursuit	4	0
5c(7)	Relief of Encircled Forces	4	0
5c(8)	Reconnaissance in Force	4	0
5d(1)(c)	Rear Area	3	1
5d(6)	Breakout/Linkup	3	2
5e(3)	Retirement	3	.3
5f(2)	Reconnaissance	3	9
5f(3)	Security	3	6
5f(4)	Economy of Force	3	6
5f(5)	Cavalry Operations	3	1
6a(3)	FA Priority Support in the Airland Battle	3	1
6a(4)	FA Land Space Requirements in MBA/CFA	4	0
6c	SEAD	3	1
7d	General Engineering	3	1
8d	Combat Service Support Aviation	3	3
9c(2)(a)	Supply	3	6
9c(2)(b)	Resupply and Basic Load Considerations		
	(Ammo Support Structure/Requisitioning)	3	.5)
	(Ammo Supply Rates/DAO Functions)	3	.3)
9c(3)	Movement Control	3	1

	<u>SUBJECTS</u>	<u>RECOMMENDED SUFFICIENCY LEVEL</u>	<u>AVERAGE TIME REQUIRED HR(S)</u>
9c(4)	Field Service Operations	3	.5
9c(6)	Personnel and Administration Operations		
	(Accountability	3	1)
	(Casualty Reporting	3	1)
	(Replacements	3	.5)
9f	Reconstitution of Ineffective Units	3	.3
10a(1)	Counterinsurgency Operations	3	.2
10a(2)	Counterterror Operations	3	.2
10a(3)	Foreign Internal Defense	3	.2
10b	SF Operations	3	.2
10c	UW Operations	3	.2
10d	PSYOPS	3	.2
10e	Civil Affairs Operations	3	1
10f	Amphibious Operations	3	1
10g	Airborne Operations	3	1
10i	Ranger Operations	3	1
10j(1)	Desert Operations	3	1
10j(2)	Jungle Operations	3	1
10j(3)	Mountain Operations	3	1
10j(4)	Northern Regions Operations	3	1
10l	Tactical Deception Operations	4	0
10m(1)	RACO-Organization for Combat	3	1
10m(2)	RACO-Perimeter Defense	3	.3
10m(3)	RACO-Active/Passive Security	3	.3
10m(4)	RACO-Weapons Employment	3	1
10m(5)	RACO-Physical Layout of Rear Area	3	1

ANNEX H-1

COMBINED ARMS SUBJECTS RATED AT SUFFICIENCY LEVEL 3 OR LOWER FOR COMBAT ARMS NON-MANEUVER OBC

<u>SUBJECTS</u>		<u>RECOMMENDED SUFFICIENCY LEVEL</u>	<u>AVERAGE TIME REQUIRED HR(S)</u>
1e	Force Modernization	3	1
1f	Strategic Deployment	4	0
2g	Airspace Management	3	4
3a	Tactical Intelligence	3	2
3b(1)	ESM	3	1
3c	IPB	3	1
3d	Tactical All Source Intelligence Production	4	0
3d(1)	SIGINT	3	1
3d(2)	IMINT	3	1
3d(3)	HUMINT	3	1
3d(4)	Tactical CI	3	1
4a	SHORAD	3	1
4b	Manportable AD Systems	3	1
4c	Non-Divisional AD Systems	3	1
4f	AD Priority Support in AirLand Battle	3	.5
4g	AD Land Space Requirements in MBA/CFA	3	1
5a(3)	Passage of Lines	3	1
5a(5)	Patrolling	3	4
5d(6)	Breakout/Link Up	3	6
5e(1)	Delay	3	1
5e(2)	Withdrawal	3	2
5e(3)	Retirement	3	1
5f(1)	Concepts and Fundamentals	3	2
5f(2)	Reconnaissance	3	2
5f(3)	Security	3	2
5f(4)	Economy of Force	3	2
5f(5)	Cavalry Operations	3	2
6a(2)	FA Organization, Command and Control	3	1
6a(3)	FA Priority Support in AirLand Battle	3	2
6a(4)	FA Land Space Requirements in MBA/CFA	4	0
6c	SEAD	3	.5
7a	Mobility	3	1
7b	Counter mobility	3	1
7c	Survivability	3	1
7d	General Engineering	3	1

	<u>SUBJECTS</u>	<u>RECOMMENDED SUFFICIENCY LEVEL</u>	<u>AVERAGE TIME REQUIRED HR(S)</u>
8a	Combat Aviation	3	1
8b	CS Aviation	3	1
8c	CSS Aviation	3	1
9c(2)(b)	Ammo Support Structure/ Requisitioning (Resupply)	3	1
9c(2)(b)	Ammo Supply Rates/DAO Functions (Resupply)	3	.5
9c(3)	Movement Control (Transportation Ops)	3	1
9c(4)	Field Services	3	2
9c(6)	Accountability (Personnel & Admin Ops)	3	1
9c(6)	Casualty Reporting (Personnel & Admin Ops)	3	1
9c(6)	Replacements (Personnel & Admin Ops)	3	.5
9f	Reconstitution of Ineffective Units	3	2
10a(1)	Counterinsurgency Operations	3	2
10a(2)	Counterterror Operations	3	.5
10a(3)	Foreign Internal Defense	4	0
10b	SF Operations	3	.5
10c	UW Operations	4	0
10d	PSYOPS	3	.5
10e	Civil Affairs Operations	3	.5
10f	Amphibious Operations	3	.5
10g	Airborne Operations	3	1
10h	Airmobile Operations	3	1
10i	Ranger Operations	3	.5
10j(1)	Desert Operations	3	1
10j(2)	Jungle Operations	3	2
10j(3)	Mountain Operations	3	1
10j(4)	Northern Region Operations	3	1
10k	River Crossing Operations	3	1
10m(1)	Organization for Combat (RACO)	3	1
10m(2)	Perimeter Defense (RACO)	3	1
10m(3)	Active/Passive Security (RACO)	3	1
10m(4)	Weapons Employment (RACO)	3	1
10m(5)	Physical Layout of Rear Area	3	1

ANNEX H-1

COMBINED ARMS SUBJECTS RATED AT SUFFICIENCY LEVEL 3 OR LOWER FOR COMBAT SUPPORT OBC

<u>SUBJECTS</u>		<u>RECOMMENDED SUFFICIENCY LEVEL</u>	<u>AVERAGE TIME REQUIRED HR(S)</u>
1e	Force Modernization	3	1
1f	Strategic Deployment	3	.5
2g	Airspace Management	3	1
3a	EW (ESM/ECM)	3	2
3e	SIGINT	3	.5
3f	IMINT	3	.5
3h	Tactical CI	3	.5
4a	SHORAD	3	1
4b	Manportable AD Systems	3	1
4c	Non-Divisional AD Systems	3	1
4d	Unit Active AD Measures	3	1
4e	Unit Passive AD Measures	3	1
4f	AD Priority Support in Airland Battle	3	1
4g	AD Land Space Requirement in MBA/CFA	4	0
5c(7)	Relief of Encircled Forces	3	.5
5c(8)	Reconnaissance in Force	3	.5
5d(3)(a)	Linear	3	1
5d(4)(b)	In-Depth	3	1
5d(5)	Strong Points	3	.5
5d(6)	Counter Attack	3	1
5d(7)	Breakout/Link Up	3	1
5e(1)	Delay	3	1
5e(2)	Withdrawal	3	1
5e(3)	Retirement	3	.5
5f(1)	Concepts and Fundamentals	3	1
5f(3)	Security	3	.5
5f(4)	Economy of Force	3	.5
5f(5)	Cavalry Operations	3	1
6a(3)	FA Priority Support in Airland Battle	3	1
6a(4)	FA Land Space Requirement in MBA/CFA	3	1
6e	SEAD	3	.5
7a	Mobility	3	.5
7b	Countermobility	3	.5
7c	Survivability	3	.5
7d	General Engineering	3	.5
8a	Combat Aviation	3	1
8c	Combat Support Aviation	3	1
8d	CSS Aviation	3	.5
9c(2)(b)	Ammo SPT Structure/Requisitioning (Resupply)	3	1
9c(2)(b)	Ammo Supply Rates/DAO Function (Resupply)	3	1

<u>SUBJECTS</u>	<u>RECOMMENDED SUFFICIENCY LEVEL</u>	<u>AVERAGE TIME REQUIRED HR(S)</u>
9c(3) Convoy Operations (Transportation Ops)	3	4
9c(6) Replacements (Personnel and Admin Ops)	3	.5
9f Reconstitution of Ineffective Units	3	1
10a(1) Counterinsurgency Operations	3	3
10a(3) Foreign Internal Defense	4	0
10b SF Operations	3	.5
10c UW Operations	3	.5
10d PSYOPS	3	.5
10e Civil Affairs Operations	3	1
10f Amphibious Operations	4	0
10g Airborne Operations	3	1
10j Ranger Operations	3	.5
10j(1) Desert Operations	3	1
10j(2) Jungle Operations	3	1
10j(3) Mountain Operations	3	1
10j(4) Northern Region Operations	3	1
10l Tactical Deception Operations	3	1
10m(1) RACO-Organization For Combat	3	1
10m(2) RACO-Perimeter Defense	3	3
10m(3) RACO-Active/Passive Security	3	2
10m(4) RACO-Weapons Employment	3	4
10m(5) RACO-Physical Layout of Rear Area	3	1

ANNEX H-1

COMBINED ARMS SUBJECTS RATED AT SUFFICIENCY LEVEL 3 OR LOWER FOR COMBAT SERVICE SUPPORT OBC

<u>SUBJECTS</u>		<u>RECOMMENDED SUFFICIENCY LEVEL</u>	<u>AVERAGE TIME REQUIRED HR(S)</u>
1e	Force Modernization	3	1
1f	Strategic Deployment	3	1
2f	C3CM	3	1
2g	Airspace Management	3	.5
3a	Tactical Intelligence	3	2
3b	EW (ESM and ECM)	3	1
3c	Intelligence Preparation of Battlefield	3	.5
3d	Tactical All-Source Production	3	1
4a	SHORAD	3	1
4b	Manportable AD Systems	3	1
4c	Non-Divisional AD Systems	3	1
4f	AD Priority Support in the Airland Battle	3	1
4g	AD Land Space Requirements in MBA/CFA	3	1
5a(3)	Passage of Lines	3	1
5b(3)	Threat Offensive Operations	3	2
5b(4)	Threat Defensive Operations	3	2
5b(5)	Threat Combat Support	3	1
5b(6)	Threat Special Operations	3	1
5c(2)	Movement to Contact	3	1
5c(3)	Hasty Attack	3	1
5c(4)	Deliberate Attack	3	1
5c(5)	Exploitation	3	1
5c(6)	Pursuit	3	1
5c(7)	Relief of Encircled Forces	3	1
5c(8)	Reconnaissance in Force	3	1
5c(9)	MOUT	3	1
5d(1)(a)	Covering Force Area	3	1
5d(1)(b)	Main Battle Area	3	1
5d(3)(a)	Linear	3	1
5d(4)(b)	In-Depth	3	1
5d(6)	Counterattack	3	1
5d(7)	Breakout/Link Up	3	1
5d(8)	MOUT	3	1
5e(1)	Delay	3	1
5e(2)	Withdrawal	3	1
5e(3)	Retirement	3	1
5f(1)	Concepts and Fundamentals	3	1
5f(2)	Reconnaissance	4	0

<u>SUBJECTS</u>	<u>RECOMMENDED SUFFICIENCY LEVEL</u>	<u>AVERAGE TIME REQUIRED HR(S)</u>
5f(3) Security	4	0
5f(4) Economy of Force	4	0
5f(5) Cavalry Operations	3	1
6a(2) FA Organization, Command and Control	3	1
6a(3) FA Priority Support in the Airland Battle	3	1
6a(4) FA Land Space Requirements in MBA/CFA	4	0
6b Close Air Support	3	1
6c Suppression of Enemy AD	4	0
7a Mobility	3	.5
7b Countermobility	3	.5
7c Survivability	3	1
7d General Engineering	3	1
8a Combat Aviation	3	1
8c Combat Support Aviation	3	1
8d CSS Aviation	3	2
9c(2)(b) Ammunition Supply Rates/DAO Functions	3	2
9f Reconstitution of Ineffective Units	3	1
10a(1) Counterinsurgency Operations	3	1
10a(2) Counterterror Operations	3	1
10a(3) Foreign Internal Defense	4	0
10b SF Operations	3	.5
10c UW Operations	3	.5
10d PSYOPS	3	.5
10e Civil Affairs Operations	3	1
10f Amphibious Operations	3	1
10g Airborne Operations	3	1
10h Airmobile Operations	3	1
10i Ranger Operations	3	.5
10j(1) Desert Operations	3	1
10j(2) Jungle Operations	3	.5
10j(3) Mountain Operations	3	1
10j(4) Northern Region Operations	3	.5
10k River Crossing Operations	3	1
10l Tactical Deception Operation	3	1

ANNEX H-2

**COMBINED ARMS SUBJECTS FOR OFFICER ADVANCED COURSES
RATED BY THE SERVICE SCHOOLS AT SUFFICIENCY LEVEL 3 AND 4**

ANNEX H-2

COMBAT ARMS MANEUVER OAC COMBINED ARMS SUBJECTS RATED AT SUFFICIENCY LEVEL 3 AND LOWER

<u>SUBJECTS</u>		<u>RECOMMENDED SUFFICIENCY LEVEL</u>	<u>AVERAGE TIME REQUIRED HR(S)</u>
1e	Force Modernization	3	4
1f	Strategic Deployment	3	1
2f	C3CM	3	5
2g	Airspace Management	3	1
3d(1)	Signals Intelligence	3	1
3d(2)	Imagery Intelligence	3	1
3d(3)	Human Intelligence	3	1
3d(4)	Counterintelligence	3	1
4c	Non-Divisional AD Systems	3	1
4e	AD Priority Support in the Airland Battle	3	1
4f	AD Land Space Requirements in MBA/CFA	3	1
5b(6)	Threat Special Operations	3	2
5e(3)	Retirement	3	1
5f(5)	Cavalry Operations	3	1
6a(4)	FA Land Space Requirements in MBA/CFA	3	1
7d	General Engineering	3	1
9c(3)	Field Services Operations	3	1
9c(5)	Replacements	3	1
9e	Reconstitution of Ineffective Units	3	1
10a(1)	Counterinsurgency Operations	3	3
10a(2)	Counterterror Operations	3	1
10a(3)	Foreign Internal Defense	3	1.5
10b	SF Operations	3	.2
10c	UW Operations	3	3
10d	PSYOPS	3	.3
10e	Civil Affairs	3	1
10f	Amphibious Operations	3	3
10g	Airborne Operations	3	3
10i	Ranger Operations	3	1
10m(1)	Organization for Combat	3	1
10m(2)	Perimeter Defense	3	1
10m(3)	Active/Passive Security	3	1
10m(4)	Weapons Employment	3	1
10m(5)	Physical Layout of Rear Area	3	2

ANNEX H-2

COMBAT ARMS NON-MANEUVER OAC COMBINED ARMS SUBJECTS RATED AT SUFFICIENCY LEVEL 3 OR LOWER

	<u>SUBJECTS</u>	<u>RECOMMENDED SUFFICIENCY LEVEL</u>	<u>AVERAGE TIME REQUIRED HR(S)</u>
1e	Force Modernization	3	3
1f	Strategic Deployment	3	1
3c	Intelligence Preparation of the Battlefield	3	4
3d	Tactical All Source Intelligence Production	3	4
3d(1)	Signals Intelligence	3	3
3d(2)	Imagery Intelligence	3	1
3d(3)	Human Intelligence	3	1
3d(4)	Tactical Counterintelligence	3	1
4a	SHORAD	3	.5
4b	Manportable AD Systems	3	.5
4c	Non-Divisional AD Systems	3	1
4f	AD Priority Support in the Airland Battle	3	.5
4g	AD Land Space Requirements in the MBA/CFA	3	2
5a(5)	Patrolling	3	1
5e(2)	Withdrawal	3	4
5e(3)	Retirement	3	3
5f(5)	Cavalry Operations	3	1
6a(2)	FA Organization, Command and Control	3	3
6a(4)	FA Land Space Requirements in the MBA/CFA	3	.5
7d	General Engineering	3	1
8a	Combat Aviation	3	2
8c	Combat Support Aviation	3	2
8d	Combat Service Support Aviation	3	1
9c(4)	Field Services Operations	3	2
10a(1)	Counterinsurgency Operations	3	2
10a(2)	Counterterror Operations	3	1
10a(3)	Foreign Internal Defense	3	.5
10b	SF Operations	3	.5
10c	UW Operations	3	1
10d	PSYOPS	3	1
10e	Civil Affairs Operations	3	1
10f	Amphibious Operations	3	1
10g	Airborne Operations	3	1
10h	Airmobile Operations	3	1
10i	Ranger Operations	3	1
10j(1)	Desert Operations	3	2
10j(2)	Jungle Operations	3	1
10j(3)	Mountain Operations	3	1
10m(4)	Northern Region Operations	3	1
10m(5)	Physical Layout of the Rear Area	3	1

ANNEX H-2

COMBAT SUPPORT OAC COMBINED ARMS SUBJECTS RATED AT SUFFICIENCY LEVEL 3 OR LOWER

	<u>SUBJECT</u>	<u>RECOMMENDED SUFFICIENCY LEVEL</u>	<u>AVERAGE TIME REQUIRED HR(S)</u>
1f	Strategic Deployment	3	1
2g	Airspace Management	3	.5
3b(1)	Electronic Warfare Support Measures	3	1
3b(2)	Electronic Countermeasures	3	1
3d(2)	Imagery Intelligence	3	.5
4c	Non-Divisional AD Systems	3	1
4f	AD Priority Support in the Airland Battle	3	1
4g	AD Land Space Requirements in the MBA/CFA	3	.5
5c(7)	Relief of Encircled Forces	3	1
5c(8)	Reconnaissance in Force	3	1
5f(4)	Economy of Force	3	.5
5f(5)	Cavalry Operations	3	1
6a(3)	FA Priority Support in the Airland Battle	3	1
6a(4)	FA Land Space Requirements in MBA/CFA	3	1
6c	SEAD	3	.5
7a	Mobility	3	1
7b	Countermobility	3	1
7c	Survivability	3	.5
7d	General Engineering	3	1
8a	Combat Aviation	3	2
8c	Combat Support Aviation	3	1
8d	Combat Service Support Aviation	3	1
9c(2)(b)	Resupply and Basic Load Considerations (Ammunition Support Structure/ Requisitioning)	3	1)
	(Ammunition Supply Rates/DAO Functions)	3	1)
9c(4)	Field Services Operations	3	1
10a(3)	Foreign Internal Defense	3	.5
10b	SF Operations	3	.5
10c	UW Operations	3	.5
10d	PSYOPS	3	.5
10f	Amphibious Operations	3	1
10g	Airborne Operations	3	1
10i	Ranger Operations	3	1
10j(1)	Desert Operations	3	1
10j(2)	Jungle Operations	3	1
10j(3)	Mountain Operations	3	1
10j(4)	Northern Region Operations	3	.5

ANNEX H-3

COMBAT SERVICE SUPPORT OAC COMBINED ARMS SUBJECTS RATED AT SUFFICIENCY LEVEL 3 AND LOWER

<u>SUBJECTS</u>	<u>RECOMMENDED SUFFICIENCY LEVEL</u>	<u>AVERAGE TIME REQUIRED HR(S)</u>
1e Force Modernization	3	2
2f C ³ CM	3	2
2g Airspace Management	3	.5
3b(1) Electronic Warfare Support Measures	3	1
3b(2) Electronic Countermeasures	3	1
3c Intelligence Preparation of the Battlefield	3	1
3d Tactical All Source Production	3	1
3d(1) Signals Intelligence	3	.5
3d(2) Imagery Intelligence	3	.5
3d(3) Human Intelligence	3	1
3d(4) Tactical Counterintelligence	3	1
4g AD Land Space Requirements in MBA/CFA	3	1
5a(3) Passage of Lines	3	1
5c(2) Movement to Contact	3	1
5c(4) Deliberate Attack	3	1
5c(5) Exploitation	3	1
5c(6) Pursuit	3	1
5c(7) Relief of Encircled Forces	3	1
5c(8) Reconnaissance in Force	3	1
5d(4) Strong Points	3	1
5d(6) Breakout/Linkup	3	1
5e(1) Delay	3	1
5e(2) Withdrawal	3	1
5e(3) Retirement	3	1
5f(1) Concepts and Fundamentals	3	1
5f(2) Reconnaissance	3	1
5f(3) Security	3	1
5f(4) Economy of Force	3	1
5f(5) Cavalry Operations	3	1
6a(2) FA Organization, Command and Control	3	1
6a(4) FA Land Space Requirements in MBA/CFA	3	1
6b Close Air Support	3	1
6c SEAD	3	1
7a Mobility	3	1
7b Countermobility	3	1
7c Survivability	3	1
7d General Engineering	3	1
8a Combat Aviation	3	1
8c Combat Support Aviation	3	1
10a(1) Counterinsurgency Operations	3	1

<u>SUBJECTS</u>	<u>RECOMMENDED SUFFICIENCY LEVEL</u>	<u>AVERAGE TIME REQUIRED HR(S)</u>
10a(2) Counterterror Operations	3	1
10a(3) Foreign Internal Defense	3	.5
10b SF Operations	3	1
10c UW Operations	3	1
10d PSYOPS	3	1
10e Civil Affairs Operations	3	1
10f Amphibious Operations	3	1
10g Airborne Operations	3	2
10h Airmobile Operations	3	1
10i Ranger Operations	3	1
10j(1) Desert Operations	3	1
10j(2) Jungle Operations	3	.5
10j(3) Mountain Operations	3	.5
10j(4) Northern Region Operations	3	.5
10k River Crossing Operations	3	1
10l Tactical Deception Operations	3	1

ANNEX H

APPENDIX 1 THROUGH 4

CONSOLIDATED DATA ON NUCLEAR AND CHEMICAL
WEAPONS EMPLOYMENT

AD-A133 316

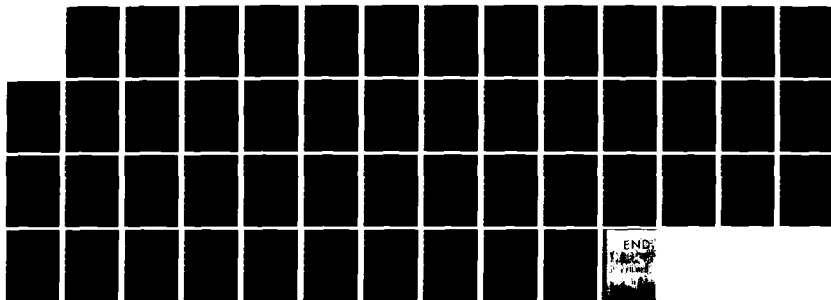
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COMBINED ARMS CENTER FORT LEAVENWORTH KS 07 APR 83
SBI-AD-E750 847

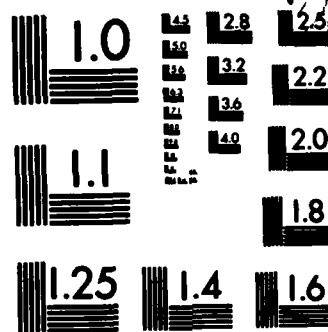
3/3

UNCLASSIFIED

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NL





MICROCOPY RESOLUTION TEST CHART
NATIONAL BUREAU OF STANDARDS-1963-A

ANNEX H
APPENDIX 1

COMBAT ARMS MANEUVER SCHOOLS

		<u>IN</u>	<u>AR</u>	<u>AV</u>	<u>CA MANEUVER AVERAGE</u>
14. Tactical Nuclear Operations					
A. Nuclear Weapons Effects					
	LT SL	3	3	3	3
	HR(S)	1	1.5	3	1.8
	HR(P)	0.5	2	3	1.8
	HR(I)	0	0	0	0
	CPT SL	2	2	3	2.3
	HR(S)	8	12	3	7.6
	HR(P)	5	4	3	4
	HR(I)	3.3	2	0	1.8
B. The Nuclear Battle					
(1) Planning					
	LT SL	3	3	3	3
	HR(S)	4	0.5	2	2.2
	HR(P)	0	0	0	0
	HR(I)	0	0	0	0
	CPT SL	2	2	3	2.3
	HR(S)	12	5	1	6
	HR(P)	7	1	0	2.7
	HR(I)	4.6	0.5	0	1.7
(2) Tactics					
	LT SL	3	3	3	3
	HR(S)	2	1	2	1.7
	HR(P)	0	0	0	0
	HR(I)	0	0	0	0
	CPT SL	2	1	3	2
	HR(S)	16	4	1	7
	HR(P)	4	1	0	1.7
	HR(I)	5	0	0	1.7
C. Nuclear Release and Employment					
	LT SL	4	3	3	3.3
	HR(S)	0	0.5	1	0.5
	HR(P)	0	0.5	1	0.5
	HR(I)	0	0	1	0.3
	CPT SL	3	3	3	3
	HR(S)	1	0.5	1	0.8
	HR(P)	0	0.5	0	0.2
	HR(I)	0	0	0	0

D. Nuclear Logistics

LT SL	4	4	3	3.7
HR(S)	0	0	1	0.3
HR(P)	0	0	0	0
HR(I)	0	0	0	0
CPT SL	4	3	3	3.3
HR(S)	0	0.5	1	0.5
HR(P)	0	0	0	0
HR(I)	0	0	0	0

E. Reconstitution

LT SL	4	4	3	3.7
HR(S)	0	0	1	0.3
HR(P)	0	0	0	0
HR(I)	0	0	0	0
CPT SL	4	2	3	3
HR(S)	0	1	1	0.7
HR(P)	0	0	0	0
HR(I)	0.1	0	0	0

F. C3 On The Nuclear Battlefield

LT SL	3	3	3	3
HR(S)	1	2	1	1.3
HR(P)	0	0	0.1	0.1
HR(I)	0	0	0	0
CPT SL	2	1	3	2
HR(S)	2	2	1	1.7
HR(P)	0.5	4	0	1.5
HR(I)	0.2	0	0	0.1

16. NBC Warfare

A. US Policy

LT SL	3	1	3	2.3
HR(S)	1	0.5	1	0.8
HR(P)	0.1	0.5	0	0.2
HR(I)	0	0	0.1	0
CPT SL	3	1	3	2.3
HR(S)	1	0.5	1	0.8
HR(P)	0.2	0.2	0.1	0.2
HR(I)	0	0	0	0

B. Threat Policy

LT SL	3	2	3	2.7
HR(S)	1	0.5	1	0.8
HR(P)	1.1	0.5	0	0.5
HR(I)	0	0	0	0
CPT SL	3	1	3	2.3
HR(S)	1	1	1	1
HR(P)	1.6	0.5	0.1	0.7
HR(I)	0.1	0	0	0

C. Survivability	LT SL	1	1	3	1.7
	HR(S)	16	25	2	14.3
	HR(P)	12.8	13	3	9.6
	HR(I)	0	0	4	1.3
	CPT SL	1	1	3	1.7
	HR(S)	15	2	5	7.3
	HR(P)	16.1	26	20	20.7
	HR(I)	6	0	0	2
D. Offensive Use	LT SL	3	3	3	3
	HR(S)	1	0.5	2	1.2
	HR(P)	0	0.5	1	0.5
	HR(I)	bbb	0	2	1
	CPT SL	3	2	3	2.7
	HR(S)	1	0.5	0.5	0.7
	HR(P)	0.4	0	0	0.1
	HR(I)	5	0	0	1.7
E. Defensive Use	LT SL	3	2	3	2.7
	HR(S)	1	0.5	2	1.2
	HR(P)	0	0.5	0	0.2
	HR(I)	bbb	0	0	0
	CPT SL	3	2	3	2.7
	HR(S)	1	0.5	0.5	0.7
	HR(P)	0.4	0	2	0.8
	HR(I)	5	0	0	1.7
F. Reconstitution	LT SL	4	3	3	3.3
	HR(S)	0	1.5	1	0.8
	HR(P)	0	1.5	2	1.2
	HR(I)	0	0	0	0
	CPT SL	4	1	3	2.7
	HR(S)	0	2	1	1
	HR(P)	0	0	0	0
	HR(I)	0	0.5	0	0.2
G. NBC Logistics	LT SL	3	3	3	3
	HR(S)	2	1.5	2	1.8
	HR(P)	0	1.5	0	0.5
	HR(I)	0	0	0	0
	CPT SL	3	1	3	2.3
	HR(S)	4	2	1	2.3
	HR(P)	0	1	0	0.3
	HR(I)	0	0	0	0

**ANNEX H
APPENDIX 2**

COMBAT ARMS NON-MANEUVER SCHOOLS

		<u>FA*</u>	<u>AD</u>	<u>EN</u>	<u>CA NON- MANEUVER AVERAGE</u>
14. Tactical Nuclear Operations					
A. Nuclear Weapons Effect					
	LT SL	3	1	2	2
	HR(S)	2	16	2	6.7
	HR(P)	0	8	1.5	3.2
	HR(I)	0	0	0	0
	CPT SL	2	2	2	2
	HR(S)	12	10	4	8.7
	HR(P)	6.4	11	5.5	7.6
	HR(I)	0	0	0	0
B. The Nuclear Battle					
(1) Planning					
	LT SL	3	1	3	2.3
	HR(S)	1	2	1	1.3
	HR(P)	2	0	0.25	0.8
	HR(I)	0	0	0	0
	CPT SL	1	2	2	1.7
	HR(S)	13	4	1	6
	HR(P)	3.4	2	0.25	1.9
	HR(I)	0	2	0	0.7
(2) Tactics					
	LT SL	4	1	3	2.7
	HR(S)	0	1	1	0.7
	HR(P)	3	0	0.25	1.1
	HR(I)	0	0	0	0
	CPT SL	1	2	2	1.7
	HR(S)	76	7	1	28
	HR(P)	15.7	5	0.25	7
	HR(I)	0	2	0	0.7
C. Nuclear Release and Employment					
	LT SL	3	1	2	2
	HR(S)	43	1	1	15
	HR(P)	0	0	0.25	0.1
	HR(I)	0	0	0	0
	CPT SL	2	2	2	2
	HR(S)	17.5	1	1	6.5
	HR(P)	0.5	1	0.25	0.6
	HR(I)	10.2	0	0	3.4

D. Nuclear Logistics

LT SL	3	1	4	2.7
HR(S)	5.5	1	0	2.2
HR(P)	0.3	2	0	0.8
HR(I)	0	0	0	0

CPT SL	3	2	3	2.7
HR(S)	5.5	2	1	2.8
HR(P)	1.2	3	0	1.4
HR(I)	0	0	0	0

E. Reconstitution

LT SL	4	1	4	3
HR(S)	0	1	0	0.3
HR(P)	0	0	0	0
HR(I)	0	0	0	0

CPT SL	4	2	3	3
HR(S)	0	1	1	0.7
HR(P)	0	0	0	0
HR(I)	0	0	0	0

F. C3 On The Nuclear Battlefield

LT SL	4	1	3	2.7
HR(S)	0	1	1	0.7
HR(P)	0	0	0.25	0.1
HR(I)	0	0	0	0

CPT SL	4	2	2	2.7
HR(S)	0	1	1	0.7
HR(P)	0	0	0.25	0.1
HR(I)	0	0	0	0

16. NBC Warfare

A. US Policy

LT SL	2	1	3	2
HR(S)	1	1	1	1
HR(P)	0.5	1	0.25	0.6
HR(I)	0.5	0	0	0.2

CPT SL	2	2	3	2.3
HR(S)	1	1	1	1
HR(P)	1.4	1	0.25	0.9
HR(I)	0.2	0	0	0.1

B. Threat Policy

LT SL	2	1	3	2
HR(S)	0.5	2	1	1.2
HR(P)	0.2	2	0.25	0.8
HR(I)	1.2	0	0	0

CPT SP	2	2	3	2.3
HR(S)	2	2	1	1.7
HR(P)	0.4	2	0.25	0.9
HR(I)	1	0	0	0.3

C. Survivability	LT SL	1	1	2	1.3
	HR(S)	40	2	3	15
	HR(P)	2	5	2	3
	HR(I)	6.5	0	0	2.2
	CPT SL	1	2	2	1.7
	HR(S)	30	2	4	12
	HR(P)	8.1	6	1.5	5.2
	HR(I)	12	2	0	4.7
D. Offensive Use	LT SL	3	1	3	2.3
	HR(S)	5	1	1	2.3
	HR(P)	0	0	0.5	0.2
	HR(I)	1	0	0	0.3
	CPT SL	2	2	3	2.3
	HR(S)	30	1	2	11
	HR(P)	0	0	1	0.3
	HR(I)	1	1.5	0	0.5
E. Defensive Use	LT SL	3	1	3	2.3
	HR(S)	5	1	1	2.3
	HR(P)	0	1	8	3
	HR(I)	1.5	0	0	0.5
	CPT SL	2	2	3	2.3
	HR(S)	30	2	2	11.3
	HR(P)	0	1	2	1
	HR(I)	0.7	0.5	0	0.4
F. Reconstitution	LT SL	2	1	4	2.3
	HR(S)	6	1	0	2.3
	HR(P)	2.3	0	0	0.8
	HR(I)	2	0	0	0.7
	CPT SL	1	2	3	2
	HR(S)	3	1	1	1.7
	HR(P)	0	0	0	0
	HR(I)	0	0	0	0
G. NBC Logistics	LT SL	3	1	4	2.7
	HR(S)	2	4	0	2
	HR(P)	9.9	4	1	5
	HR(I)	0	4	0	1.3
	CPT SL	3	2	3	2.7
	HR(S)	2	6	1	3
	HR(P)	0	4	0.5	1.5
	HR(I)	0	2	0	0.7

* FA Data includes Chemical Weapons Effect.

ANNEX H
APPENDIX 3

COMBAT SUPPORT SCHOOLS

		<u>SC</u>	<u>MP</u>	<u>MI</u>	<u>CM*</u>	<u>CS AVERAGE</u>
14. Tactical Nuclear Operations						
A. Nuclear Weapons Effects						
	LT SL	3	3	3	1	3
	HR(S)	2	1	14	30	5.7
	HR(P)	0	6	4	4	3.3
	HR(I)	0.5	0	10	2	3.5
	CPT SL	3	2	2	2	2.3
	HR(S)	6	2	45	100	17.7
	HR(P)	12	18	5	6	11.7
	HR(I)	0.5	0	40	30	13.5
B. The Nuclear Battle						
(1) Planning						
	LT SL	3	4	3	1	3.3
	HR(S)	0	0	2.5	10	0.8
	HR(P)	0	0	0.5	2	0.2
	HR(I)	0	0	2	0	0.7
	CPT SL	3	4	2	1	3
	HR(S)	6	0	18	10	8
	HR(P)	2	0	8	0	3.3
	HR(I)	0	0	10	2	3.3
(2) Tactics						
	LT SL	3	3	3	2	3
	HR(S)	0	1	1.5	5	0.8
	HR(P)	0	2	0.5	0	0.8
	HR(I)	0	0	1	0	0.3
	CPT SL	3	3	2	1	2.7
	HR(S)	4	1	11	10	5.3
	HR(P)	0	1	1	0	0.7
	HR(I)	0	0	10	2	3.3
C. Nuclear Release and Employment						
	LT SL	3	3	3	2	3
	HR(S)	0	1	1.5	5	0.8
	HR(P)	0	1	0.5	0.2	0.8
	HR(I)	0	0	1	0	0.3
	CPT SL	3	3	3	1	3
	HR(S)	4	1	3	15	2.7
	HR(P)	0	1	1	3	0.7
	HR(I)	0	0	2	0	0.7

D. Nuclear Logistics

LT SL	3	3	3	2	3
HR(S)	0	1	0.5	2	0.5
HR(P)	0	0.5	0	0	0.2
HR(I)	0	0	0.5	0	0.2

CPT SL	3	3	3	1	3
HR(S)	0	1	0.5	5	0.5
HR(P)	0	0.5	0	0	0.2
HR(I)	0	0	0.5	1	0.2

E. Reconstitution

LT SL	3	3	3	2	3
HR(S)	0	2	1	1	1
HR(P)	0	0.5	0.25	0	0.3
HR(I)	0	0	1	0	0.3

CPT SL	3	2	2	1	2.3
HR(S)	2	2	6	3	3.3
HR(P)	0	0.5	1	0	0.5
HR(I)	0	0	5	0	1.7

F. C3 on the Nuclear Battlefield

LT SL	3	2	3	2	2.7
HR(S)	2	2	2	3	2
HR(P)	0	3	0	1	1
HR(I)	0	0	2	0	0.7

CPT SL	2	2	2	1	2
HR(S)	4	4	11	5	6.3
HR(P)	0	2	1	0	1
HR(I)	0	0	10	2	3.3

16. NBC Warfare

A. US Policy

LT SL	1	3	3	1	2.3
HR(S)	0.2	0.5	0.25	2	0.3
HR(P)	0.9	0.2	0.25	2	0.5
HR(I)	0.2	0	0	2	0.1

CPT SL	1	3	3	1	2.3
HR(S)	2	0.5	0.25	4	0.9
HR(P)	2	0.2	0.25	0	0.8
HR(I)	0.2	0	0	2	0.1

B. Threat Policy

LT SL	1	2	2	1	1.7
HR(S)	0.2	1	1	3	0.7
HR(P)	0.9	0.2	0.5	3	0.5
HR(I)	0.2	0	0.5	0	0.2

CPT SL	1	2	2	1	1.7
HR(S)	4	1	1	10	2
HR(P)	0.2	0.2	0.5	3	0.3
HR(I)	0.2	0	0.5	2	0.2

C. Survivability	LT SL	3	2	2	1	2.3
	HR(S)	0.5	32	3	40	11.8
	HR(P)	0.9	0.2	1	16	0.7
	HR(I)	0.2	0	2	16	0.7
	CPT SL	3	1	2	1	2
	HR(S)	1	46	1	45	16
	HR(P)	0.2	0.2	1	46	0.5
	HR(I)	0.2	0	0	6	0.1
D. Offensive Use	LT SL	4	3	2	1	3
	HR(S)	0	1	5	30	2
	HR(P)	0	0.2	5	16	0.8
	HR(I)	0	0	0.5	16	0.2
	CPT SL	4	3	1	1	2.7
	HR(S)	0	1	7	60	2.7
	HR(P)	0	0.2	7	107	2.4
	HR(I)	0	0	0.5	0	0.2
E. Defensive Use	LT SL	3	3	1	1	2.3
	HR(S)	3	1	6	60	3.3
	HR(P)	0	0.2	6	100	2.1
	HR(I)	0	0	0.5	0	0.2
	CPT SL	2	3	1	1	2
	HR(S)	7	1	3	100	3.7
	HR(P)	0	0.2	3	46	1.1
	HR(I)	0	0	0.5	4	0.2
F. Reconstitution	LT SL	3	3	3	1	3
	HR(S)	0.5	2	1	5	1.2
	HR(P)	0.9	0.2	0.25	0	0.5
	HR(I)	0.5	0	1	0.5	0.5
	CPT SL	3	2	2	1	2.3
	HR(S)	2	2	6	10	3.3
	HR(P)	1	0.2	1	0	0.7
	HR(I)	0.5	0	5	1	1.8
G. NBC Logistics	LT SL	3	3	3	1	3
	HR(S)	0	1	0.5	15	0.5
	HR(P)	0	0	0	20	0
	HR(I)	0	0	0.5	4	0.2
	CPT SL	3	3	3	1	3
	HR(S)	0	1	0.5	30	0.5
	HR(P)	0	0	0	8	0
	HR(I)	0	0	0.5	0	0.2

* Chemical School data not included in mean since chemical school has subject proponency and specialty interest.

ANNEX H
APPENDIX 4

COMBAT SERVICE SUPPORT SCHOOLS

		<u>OD</u>	<u>MM#</u>	<u>AG</u>	<u>FI</u>	<u>QM</u>	<u>TC</u>	<u>MS</u>	<u>CSS AVERAGE</u>	
14. Tactical Nuclear Operations										
A. Nuclear Weapons Effects		LT SL	2	3	1	3	2	2	2.1	
		HR(S)	1	15	2	1	4	3	2.5	
		HR(P)	1	13	0	0	4	3	1.8	
		HR(I)	0	0	2	2	4	0.2	1.4	
		CPT SL	2	2	1	2	2	1	1.7	
		HR(S)	1	44	2	2	4	3	3.8	
		HR(P)	1		0	0	3	3	2.3	
		HR(I)	0.5		2	2	0	0.5	2.2	
B. The Nuclear Battle										
(1) Planning		LT SL	4		3	4	3	3	4	3.5
		HR(S)	0		1	0	2	2	0	0.8
		HR(P)	4		0	0	2	3	0	0.2
		HR(I)	0		0	0	1	0	0	0.2
		CPT SL	3		3	4	2	2	2	2.7
		HR(S)	0.5		1	0	3	4	6	2.4
		HR(P)	13		0	0	0	6	0	3.2
		HR(I)	0.1		0	0	2	0	2	0.7
(2) Tactics		LT SL	4		3	4	3	3	4	3.5
		HR(S)	0		1	0	1	2	0	0.7
		HR(P)	0		0	0	1	0.5	0	0.3
		HR(I)	0		0	0	1	0	0	0.2
		CPT SL	3		3	4	3	2	2	2.8
		HR(S)	0.5		1	0	2	3	6	2.1
		HR(P)	0		0	0	0	1	0	0.2
		HR(I)	0.5		0	0	1	0	6	1.3
C. Nuclear Release and Employment		LT SL	4		3	4	3	3	4	3.5
		HR(S)	0		1	0	1	2	0	0.7
		HR(P)	0		0	0	1	1	0	0.3
		HR(I)	0		0	0	1	0	0	0.2
		CPT SL	3		3	4	3	2	3	3
		HR(S)	0		1	0	1	2	6	1.7
		HR(P)	0		0	0	0.5	1	1	0.4
		HR(I)	0.1		0	0	1	0	0	0.2

D. Nuclear Logistics

LT SL	4	4	4	4	3	4	3.8
HR(S)	0	0	0	0	2	0	0.3
HR(P)	0	0	0	0	0.5	0	0.1
HR(I)	0	0	0	0	0	0	0

CPT SL	4	4	4	3	3	3	3.5
HR(S)	0	0	0	1	2	6	1.5
HR(P)	0	0	0	0	0.5	0	0.1
HR(I)	0	0	0	1	0	0	0.2

E. Reconstitution

LT SL	4	2	3	3	3	4	3.2
HR(S)	0	1	1	1	1	0	0.7
HR(P)	0	0	0	1	0.5	0	0.3
HR(I)	0	0	0	1	0.2	0	0.2

CPT SL	3	2	3	2	3	3	2.7
HR(S)	1	2	1	3	2	6	2.5
HR(P)	0	0	0	0	0.5	0	0.1
HR(I)	0	0	0	2	0.5	0	0.4

F. C 3 On The Nuclear Battlefield

LT SL	3	3	3	3	3	4	3.2
HR(S)	2	1	1	3	2	0	1.5
HR(P)	0	0	0	2	1	0	0.5
HR(I)	1	0	0	2	0.2	0	0.5

CPT SL	3	3	3	2	2	3	2.7
HR(S)	0.2	1	1	4	2	6	2.4
HR(P)	0	0	0	0	4	0	0.7
HR(I)	1.2	0	0	2	0.5	0	0.6

16. NBC Warfare

A. US Policy

LT SL	3	3	3	3	2	3	3	2.8
HR(S)	1	20	1	1	2	1	1	1.2
HR(P)	0.2	1	0	0	1	0.5	1	0.5
HR(I)	0	0	1	1	1	0	0	0.5

CPT SL	2	2	3	3	2	2	2	2.3
HR(S)	0.2	20	1	1	2	1.5	1	1.1
HR(P)	0.2		0	0	1	1	1	0.5
HR(I)	0.1		1	1	0	0	6	1.4

B. Threat Policy

LT SL	3	3	3	3	2	3	3	2.8
HR(S)	1	--	1	1	2	1	1	1.2
HR(P)	1	1	0	0	2	0.5	1	0.8
HR(I)	0	0	1	1	2	0	2	1

CPT SL	2		3	3	2	2	2	2.3
HR(S)	1		1	1	4	2	2	1.8
HR(P)	1		0	0	1	1	2	0.8
HR(I)	0.1		1	1	0	0	2	0.7

C. Survivability

LT SL	1	3	1	2	2	3	2	1.8
HR(S)	18	--	8	4	4	2	19	9.2
HR(P)	2	15	26	26	4	10	18	14.3
HR(I)	0	4	0	0	4	0.5	3	1.3
CPT SL	1		1	2	2	2	1	1.5
HR(S)	26		8	4	4	3.5	2	7.9
HR(P)	5		32	32	4	10	16	16.5
HR(I)	2		0	0	0	2	4	1.3

D. Offensive Use

LT SL	3	3	3	3	3	3	3	3
HR(S)	0.2	--	2	2	2	1.5	1	1.5
HR(P)	5	0	0	0	1	1	0	1.2
HR(I)	0	0.5	0	0	1	0	0	0.2
CPT SL	3		3	3	2	3	3	2.8
HR(S)	0.2		2	2	3	1.5	1	1.6
HR(P)	5		0	0	0	2	0	1.2
HR(I)	0.1		0	0	1	0	0	0.2

E. Defensive Use

LT SL	3	3	2	2	3	3	3	2.7
HR(S)	0.2	--	2	4	8	1.5	1	2.8
HR(P)	6	0	0	0	8	1	0	2.5
HR(I)	0	0.5	0	0	8	0	0	1.3
CPT SL	3		2	2	2	3	2	2.3
HR(S)	0.2		2	4	8	1	3	3
HR(P)	10		0	0	8	1	0	3.2
HR(I)	0.1		0	0	0	0	0	0

F. Reconstitution

LT SL	3	3	3	3	3	4	3	3.2
HR(S)	0	--	1	4	2	0	1	1.3
HR(P)	0	1	0	0	1	0	0	0.2
HR(I)	0	1	0	0	1	0.2	0	0.2
CPT SL	3		3	2	2	4	3	2.8
HR(S)	1		1	4	3	0	1	1.7
HR(P)	0		0	0	0	1	0	0.2
HR(I)	0		0	0	3	0.2	0	0.5

G. NBC Logistics

LT SL	3	3	3	4	3	3	3	3.2
HR(S)	3	--	1	0	2	1	1	1.3
HR(P)	0	1	0	0	1	0.5	2	0.6
HR(I)	0	0	0	0	1	0	0	0.2
CPT SL	3		3	4	2	3	3	3
HR(S)	0		1	0	3	1	1	1
HR(P)	0		0	0	0	1	2	0.5
HR(I)	0		0	0	1	0	0	0.2

* Missile and Munitions School data (HR(S), HR(P) and HR(I)) for Tactical Nuclear Operations indicates consolidated entry and therefore was not included in averaging. Missile and Munitions School data (HR(S)) for OBC and OAC for NBC Warfare indicates consolidated entry and therefore was not included in the averaging. Missile and Munitions POI hours for OAC not available.

ANNEX I

TACTICAL LEVEL OF INVOLVEMENT

ANNEX I

COMBINED ARMS LEVELS OF TACTICAL INVOLVEMENT

Lieutenant -----
 Captain
 Other _____

	PLATOON	COMPANY	BATTALION	BRIGADE	DIVISION	CORPS	EAC
INF	-----						
ARM	-----						
FA	-----						
ENGR	-----						
ADA	-----						
AVN	-----						
CML	-----						
MSC	-----						
INTEL	-----						
MP	-----						
SIG	-----						
LOGC	-----						
SCHS	-----						
SSC	-----						
IMA	-----						

ANNEX J

SERVICE SCHOOL SUBJECT ANOMOLIES

ANNEX J

Anomalies*

<u>Infantry School</u>		<u>Suff</u>	<u>Hr(S)</u>	<u>Hr(P/I)</u>
1A	Mission and Role of USA (LT)	2	1	0
1C(1)	Enemy Air Defense (LT)	4	0	0/0.25
1C(2)	Suppression of Enemy AD (LT)	4	0	1/0.1
1C(4)	Airspace Management (LT)	4	0	0.2/0
4B	Tactical Intelligence (LT)	2	6	0
4C	OPSEC (LT)	2	3	0
4E	River Crossing (LT)	2	4	0
6A(1)	Covering Force Area (LT)	1	1	0
6A(2)	Main Battle Area (LT)	1	1	0
6A(3)	Rear Area (LT)	1	1	0
6D	Strong Points (LT)	1	2	0
6F	Breakout/Link-up (LT)	2	4	0
7A	Disengagement (LT)	1	8	0
8A	Concepts and Fundamentals (CPT)	2	2	0
8D	Economy of Force (CPT)	1	6	0
9B	RACO-Organization for Combat (LT)	3	0	0
9B(2)	RACO-Perimeter Defense (LT)	3	0	0
9B(3)	RACO-Active/Passive Security (LT)	3	0	0
9B(4)	RACO-Weapons Employment (LT)	3	0	0
9B(5)	RACO-Physical Layout of Rear Area (LT)	3	0	0
9D	Counterinsurgency Operations (LT)	3	0	0
9E	Counterterror Operations (LT)	3	0	0
9F	SF Operations (LT and CPT)	3	0	0 (Both)
9G	Foreign Internal Defense (LT)	3	0	0
9G	Foreign Internal Defense (CPT)	3	0	6
9H	Unconventional Warfare (LT)	3	0	0
9I	PSYOPS (LT and CPT)	3	0	0 (Both)
9J	Civil Affairs (LT and CPT)	3	0	0 (Both)
10B	Jungle (CPT)	2	7	0
12B	Manportable AD Systems (CPT)	2	1	0
14E	Reconstitution (CPT)	4	0	0/0.1
15C	Survivability (LT)	1	12	0
18A	SIGINT (LT)	4	0	1/0
18E	Intelligence Preparation of the Battlefield (LT)	2	1	0
20A(1)(A)	Air Load Planning (CPT)	2	4	0
20A(1)(C)	Sea Load Planning (CPT)	4	0	0/0.25
20A(2)	Convoy Operations (LT and CPT)	3	0	0 (Both)
20B(4)	Munitions Identification (LT and CPT)	2	6	0 (Both)
20C(2)	Command and Staff Management of PM (LT)	2	4	0
20C(2)	Command and Staff Management of PM (CPT)	2	12	0
20C(3)	PLL (CPT)	2	6	0
20C(4)	Preventive Maintenance Checks and Services (CPT)	1	8	0
20C(5)	TAMMS (CPT)	2	7	0
21B	POW Processing (CPT)	1	1	0
21C	Geneva Convention (CPT)	1	2	0
21D	Code of Conduct (CPT)	1	1	0
21K	How to Train (CPT)	1	6	0

*Alpha-numeric digit refers to original CASS subject paragraph.

ANNEX J

Anomalies*

<u>Armor School</u>	<u>Suff</u>	<u>Hr(s)</u>	<u>Hr(P/I)</u>
1C(6) Extended Battlefield (LT)	4	0	1/0
2F Special Operations (LT)	2	2	0
4G Patrolling (CPT)	2	2	0
6A(3) Rear Area (CPT)	2	1	0
6D Strong Points (CPT)	1	1	0
9B(1) RACO-Organization for Combat (LT)	3	0	0
9B(1) RACO-Organization for Combat (CPT)	2	0.5	0
9B(2) RACO-Perimeter Defense (LT and CPT)	2	0	0 (Both)
9B(3) RACO-Active/Passive Security (LT and CPT)	2	0	0 (Both)
9B(4) RACO-Weapons Employment (LT)	2	0	0
9B(4) RACO-Weapons Employment (CPT)	2	0.5	0
9B(5) Physical Layout of Rear Area (LT)	2	2	0
9D Counterinsurgency Operations (LT)	3	0	0
9E Counterterror Operations (LT)	3	0	0
9G Foreign Internal Defense (CPT)	2	4	0
9I Psychological Operations (LT)	3	0	0
9L Airborne Operations (CPT)	2	0.5	0
9M Airmobile Operations (LT)	3	0	0
9M Airmobile Operations (CPT)	2	0.5	0
10C Mountain Operations (CPT)	2	1.5	0
11E FA Land Space Requirements in MBA/CFA (CPT)	2	1	0
14F Reconstitution (CPT)	2	1	0
15E ADM Operations (LT and CPT)	3	0	0 (Both)
16D Offensive Use (CPT)	2	0.5	0
16E Defensive Use (CPT)	2	0.5	0
18F Tactical All-Source Intelligence Production (LT)	3	0	0
18F Tactical All-Source Intelligence Production (CPT)	2	1	0
20A(1)(A) Air Load Planning (CPT)	2	2	0
20A(1)(A) Sea Load Planning (CPT)	2	2	0
20B(2) Ammo Safety, Storage and Transportation (CPT)	1	3	0
20B(4) Munitions Identification (CPT)	1	2	0
20B(5) Ammo Emergency Destruction Procedures (CPT)	2	1	0
20D(2) Estimates (CPT)	1	2	0
20D(4) Replacements (LT)	2	1	0
20D(4) Replacements (CPT)	1	1	0
20D(5)(A) First Aid (LT and CPT)	1	0	0 (Both)
21A Vehicle Recognition (CPT)	1	2	0
21C Geneva Convention (CPT)	1	2	0
21E Process Captured Documents and Material (CPT)	2	2	0
21F Land Navigation (CPT)	1	10	0
21I Strategic Deployment (CPT)	2	1	0

*Alpha-numeric digit refers to original CASS subject paragraph.

ANNEX J

Anomalies*

<u>Aviation School</u>		<u>Suff</u>	<u>Hr(S)</u>	<u>Hr(P/I)</u>
1. Initial Rotary Wing (LT)				
1C(2)	SEAD	2	3	0
1C(6)	Extended Battlefield	2	2	0
1D	Fundamentals of Modern Combat	2	5	0
4F	Operations During Limited Visibility	3	1	16/6
4G	Patrolling	4	0	0/0.2
6G	C ³ Options once Battle Begins	4	0	0/4
12F	Visual Aircraft Recognition	2	3	0
20C(4)	Preventive Maintenance Checks and Services	2	10	61.5/0
21F	Land Navigation	2	4	56.2/0
21J	Training Mgmt	2	4	0
2. WO Advanced Course (CPT)				
1C(2)	SEAD	2	3	0
3B	Organization/Preparation for Combat	2	66	1/0
4A	Battlefield Mvmt	2	12	0/0.2
5C	Meeting Engagement	2	1	0
8F	Covering Force	2	7	0
12D	Unit Active AD Meas.	2	1	0
12E	Unit Passive AD Meas.	2	1	0
17B	ECM	3	0	0/2
20A(4)	Aviation Logistics	2	20	0/0.1
20D(4)	Replacements	4	0	0/0.1
20D(5)	First Aid	2	1	0
21G	Use of Radio Equipment	1	2	0
21H	Smoke Ops	2	2	0

*Alpha-numeric digit refers to original CASS subject paragraph.

ANNEX J

Anomalies*

<u>Field Artillery School</u>	<u>Suff</u>	<u>Hr(S)</u>	<u>Hr(P/I)</u>
1C(5) Protection of Sensors and Deep Attack Sys (LT)	4	0	0/0.1
1C(6) Extended Battlefield (LT)	4	0	0/2.2
2F Special Ops (CPT)	1	16	0
4A Battlefield Movement (LT)	2	0.9	2/14
4A Battlefield Movement (CPT)	2	4	3.5/22.3
4G Patrolling (CPT)	2	0.1	0
5H Relief of Encircled Forces (LT)	1	-	0
5I Reconnaissance in Force (CPT)	1	-	0
9A MOUT (CPT)	1	0.6	4.2/9
9B(3) RACO-Active/Passive Security (CPT)	1	0.1	0
9B(4) RACO-Weapons Employment (CPT)	1	0.1	0
9C Reconstitution of Ineff. Unit (LT)	2	6	0
9C Reconstitution of Ineff. Unit (CPT)	1	3	0
9E Counterterror Ops (CPT)	4	0	0/0.2
16F Reconstitution (CPT)	1	3	0
17A ESM (LT)	2	0.9	0
17D Integrated Ops w/Tactics (LT)	2	0.9	0
18A Signals Intelligence (CPT)	3	2	6/0
18B Imagery Intelligence (CPT)	3	1	6/0
19 NATO Interoperability	2	5	0
20A(1)(B) Land (CPT)	1	2	0
20B(1) Ammo Spt Structure/Requis (LT)	2	1.7	0
20B(2) Ammo Safety, Storage, Transp (LT)	2	1.5	0
20B(4) Munition ID (CPT)	2	0.8	0
20B(5) Ammo Emer Dest. Procedures (LT)	2	0.7	0
20B(5) Ammo Emer Dest. Procedures (CPT)	2	2	0
20D(1) Accountability (CPT)	4	0	0.3/4.2
20D(5)(A) First Aid (LT)	2	1	0
20E Supply (LT)	2	3.4	0
20G Subsistence (CPT)	4	0	0/5.2
21F Land Navigation (LT)	1	18	37/0

*Alpha-numeric digit refers to original CASS subject paragraph.

ANNEX J

Anomalies*

<u>ADA School</u>	<u>Suff</u>	<u>Hr(S)</u>	<u>Hr(P/I)</u>
1A Mission and Role of USA (LT)	2	3	0
1A Mission and Role of USA (CPT)	2	2	0
2E Combat Support (LT)	2	2	0
3C(1) Staff Procedures in Cmbt (CPT)	2	2	0
3C(3) Decisionmaking (LT)	2	4	0
4G Patrolling (LT)	2	2	0
6C(1) Linear (CPT)	2	2	0
6C(3) Perimeter (CPT)	2	2	0
7A Disengagement (CPT)	2	2	0
9B(2) RACO-Perimeter Defense (CPT)	1	.5	0
9B(5) RACO-Physical Layout of Rear Area (CPT)	2	1	0
9C Reconstitution of Ineff. Unit (LT)	2	1	0
9E Counterterror Ops (CPT)	2	2	0
9L Airborne (CPT)	2	1	0
9N Ranger (LT and CPT)	3	0	0
13C Combat Service Spt Aviation (CPT)	2	2	0
14B(1) Nuc. Battle Planning (LT)	1	2	0
14B(2) Nuc. Battle Tactics (LT)	1	1	0
14C Nuc Release/Employment (LT)	1	1	0
14E Reconstitution (LT)	1	1	0
14E Reconstitution (CPT)	2	1	0
14F C3 on Nuc. Battlefield (LT)	1	1	0
14F C3 on Nuc. Battlefield (CPT)	2	1	0
16D Offensive Use (LT)	1	1	0
16F Reconstitution (LT)	1	1	0
16F Reconstitution (CPT)	2	1	0
17A ESM (LT)	2	2	0
17B ECM (LT)	2	1	0
17C SIGSEC (LT)	2	4	0
19 NATO Interoperability (CPT)	2	3	0
20A(1)(A) Air (CPT)	2	2	0
20A(1)(B) Land (CPT)	2	3	0
20A(2) Convoy Ops (LT)	2	1	0
20A(2) Convoy Ops (CPT)	1	2	0
20A(3) Movement Control (LT)	2	1	0
20A(3) Movement Control (CPT)	1	2	0
20B(1) Ammo Support Structure/Requis. (CPT)	2	2	0
20B(2) Ammo Safety Storage, Transp (LT and CPT)	2	1	0 (Both)
20B(4) Munition ID (LT and CPT)	2	2	0 (Both)
20B(6) EOD Ops (CPT)	2	2	0

20C(1)	Recovery and Evac. (LT)	2	3	0
20C(4)	PMCS (CPT)	1	9	0
20D(5)(A)	First Aid (LT and CPT)	2	2	0 (Both)
20D(5)(B)	Med. Evac (LT)	2	2	0
21A	Vehicle Recognition (LT)	2	2	0
21B	POW Processing (CPT)	2	2	0
21E	Process Captured Doc's/Mat (CPT)	2	3	0
21H	Smoke Operations (LT)	2	1	0

*Alpha-numeric digit refers to original CASS subject paragraph.

ANNEX J

Anomalies*

<u>Engineer School</u>	<u>Suff</u>	<u>Hr(S)</u>	<u>Hr(P/I)</u>
1A Mission/Role of USA (LT)	2	1	0
1B Principles of War (LT)	2	1	0
1C(1) Enemy AD (LT)	4	0	0/0.5
3A Leadership (LT and CPT)	1	25	0 (Both)
3C(1) Staff Procedures in Combat (LT)	2	2	0
3C(3) Decisionmaking (LT and CPT)	2	2	0 (Both)
4A Battlefield Mvmt (LT)	2	6	0
4E River Crossing (LT)	1	20	0
4F Ops During Limited Vis (LT)	2	24	0
4F Ops During Limited Vis (CPT)	2	6	0
5A Concepts/Fundamentals (LT)	2	2	0
9K Amphibious Ops (LT)	2	1	0
9K Amphibious Ops (CPT)	1	3	0
11A Request/Adjust Fire (CPT)	2	4	0
11C FA Org, Cmd and Control (CPT)	4	0	3/0
12D Unit Active AD Measures (LT and CPT)	2	1	0 (Both)
12E Unit Passive AD Measures (LT and CPT)	2	1	0 (Both)
16G NBC Logistics (LT)	4	0	1/0
20A(1)(A) Air (LT and CPT)	2	1	0 (Both)
20A(1)(B) Land (LT and CPT)	2	1	0 (Both)
20A(1)(C) Sea (LT and CPT)	2	1	0 (Both)
20B(4) Munition Ident. (LT)	2	1	0
20B(5) Ammo Emer. Dest. Proced (LT and CPT)	2	1	0 (Both)
20B(6) EOD Ops (CPT)	2	1	0
20C(2) Cmd/Staff Mgmt of PM (LT)	1	2	0
20C(2) Cmd/Staff Mgmt of PM (CPT)	1	8	0
20C(3) PLL (LT)	1	2	0
20C(4) FMCS (LT and CPT)	1	4	0 (Both)
20C(5) TAMMS (LT and CPT)	1	4	0 (Both)
20D(1) Accountability (CPT)	2	2	0
20D(2) Estimates (CPT)	2	1	0
20D(3) Casualty Rpt (LT and CPT)	2	1	0 (Both)
20D(4) Replacements (LT and CPT)	2	1	0 (Both)
20D(5)(B) Med. Evac (LT and CPT)	2	2	0 (Both)
20F POL (LT)	2	2	0
20G Subsistence (LT)	2	2	0
20H Field Services (LT)	2	2	0
21C Geneva Convention (LT)	2	1	0
21C Geneva Convention (CPT)	2	.5	0
21D Code of Conduct (LT)	1	1	0
21D Code of Conduct (CPT)	2	.5	0
21E Process Captured Doc's/Mat (CPT)	2	1	0
21F Land Navigation (CPT)	1	3	0
21G Use of Radio Equip (LT)	1	8	0
21G Use of Radio Equip (CPT)	1	10	0
21H Smoke Ops (LT)	2	1	0

*Alpha-numeric digit refers to original CASS subject paragraph.

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Anomalies*

<u>Signal School</u>	<u>Suff</u>	<u>Hr(S)</u>	<u>Hr(P/I)</u>
1B Principles of War (LT)	3	0	0
1B Principles of War (CPT)	2	2/0	0
1C(4) Airspace Mgmt (CPT)	3	0	0
1D Underlying Fund of Mod Cmbt (CPT)	2	2	0
2C Offensive Ops (CPT)	3	0	1/1
2D Defensive Ops (CPT)	3	0	1/2
3C(1) Staff Procedures in Combat (CPT)	2	2	7/14
3C(3) Decisionmaking (CPT)	2	2	0
4A Battlefield Mvmt (CPT)	3	0	0
4B Tactical Intelligence (LT)	3	0	0
4D Passage of Lines (LT)	3	0	0
4E River Crossing (LT)	3	0	0
4G Patrolling (LT and CPT)	3	0	0 (Both)
5B Movement to Contact (LT)	3	0	2.6/1
5C Meeting Engagement (LT)	3	0	0
5D Hasty Attack (LT)	3	0	0
5E Deliberate Attack (LT)	3	0	0
5F Exploitation (LT)	3	0	0
5G Pursuit (LT)	3	0	0
5H Relief of Encircled Forces (LT)	3	0	0
5I Reconnaissance in Force (LT)	3	0	0
5J Deception Ops (LT)	3	0	0
6B Defense in Sector (LT)	3	0	0
6C(1) Linear (LT and CPT)	3	0	0 (Both)
6C(2) In-Depth (CPT)	3	0	0
6D Strong Points (LT and CPT)	3	0	0 (Both)
6E Counterattack (LT and CPT)	3	0	0 (Both)
6F Breakout/Link-up (LT and CPT)	3	0	0 (Both)
6G C ³ Options once Battle Begins (LT)	3	0	0
8A Concepts and Fundamentals (LT)	3	0	0
8B Reconnaissance (LT and CPT)	3	0	0 (Both)
8C Security (LT and CPT)	3	0	0 (Both)
8D Economy of Force (LT and CPT)	3	0	0 (Both)
8F Covering Force (LT and CPT)	3	0	0 (Both)
9A MOUT (LT and CPT)	3	0	0 (Both)
9B(1) RACO-Organization for Combat (LT)	3	0	0.5/0.2
9B(5) RACO-Physical Layout of Rear Area (LT)	3	0	0
9D Counterinsurgency Ops (LT and CPT)	3	0	0 (Both)
9E Counterterror Ops (LT and CPT)	3	0	0 (Both)
9F SF Ops (LT and CPT)	3	0	0 (Both)
9H UW Ops (LT)	3	0	0
9I PSYOPS (LT and CPT)	3	0	0 (Both)
9L Airborne (LT)	3	0	0
9M Airmobile (LT)	3	0	0
9N Ranger Ops (LT and CPT)	3	0	0 (Both)

11B	Artillery Effects (CPT)	3	0	0
12B	Manportable AD Sys (LT)	3	0	0
12D	Unit Active AD Measures (CPT)	3	0	0/0.5
12F	Visual Aircraft Recognition (LT and CPT)	3	0	0 (Both)
13C	Combat Service Spt Aviation (CPT)	3	0	4/1
14B(1)	Nuclear Battle Planning (LT)	3	0	0
14B(2)	Nuclear Battle Tactics (LT)	3	0	0
14C	Nuclear Release/Employment (LT)	3	0	0
14D	Nuclear Logistics (LT and CPT)	3	0	0 (Both)
14E	Reconstitution (LT)	3	0	0
14F	C ³ on the Nuclear Battlefield (CPT)	2	4	0
15A	Mobility (LT)	3	0	0
15D	General Engineering (LT)	3	0	0
16E	Defensive Use (CPT)	2	7	0
16G	NBC Logistics (LT and CPT)	3	0	0 (Both)
17A	ESM (CPT)	3	1	24/0
17C	SIGSEC (CPT)	2	15	24/1
18A	SIGINT (LT and CPT)	3	0	0 (Both)
18B	IMINT (LT and CPT)	3	0	0 (Both)
18C	HUMINT (LT and CPT)	3	0	0 (Both)
18D	Counterintelligence (LT and CPT)	3	0	0 (Both)
18E	IPB (LT and CPT)	3	0	0 (Both)
18F	Tactical All-Source Intelligence Production and Management (LT and CPT)	3	0	0 (Both)
20A(1)(A)	Air (LT)	3	0	3/0.5
20A(1)(B)	Land (LT)	3	0	0
20A(3)	Movement Control (LT and CPT)	3	0	0 (Both)
20B(4)	Munitions ID (LT and CPT)	3	0	0 (Both)
20B(6)	EOD Ops (LT and CPT)	3	0	0 (Both)
20C(2)	Command and Staff Management of PM (CPT)	3	2	24/2
20D(1)	Accountability (LT)	3	0	0
20D(2)	Estimates (LT and CPT)	3	0	0 (Both)
20D(3)	Casualty Reporting (LT and CPT)	3	0	0 (Both)
20D(4)	Replacements (LT and CPT)	3	0	0 (Both)
20D(5)(B)	Med. Evac (LT and CPT)	3	0	0 (Both)
20F	POL (LT and CPT)	3	0	0 (Both)
20G	Subsistence (LT)	3	0	0/0.5
20G	Subsistence (CPT)	3	0	2/0.5
20H	Field Services (LT and CPT)	3	0	0 (Both)
21A	Vehicle ID (LT and CPT)	3	0	0 (Both)
21B	POW Processing (LT and CPT)	3	0	0 (Both)
21E	Process Captured Doc's/Mat (LT and CPT)	3	0	0 (Both)
21G	Use of Organic Radio Equip (LT)	2	0	0/10
21H	Smoke Ops (LT)	3	0	0.2/0.4
21H	Smoke Ops (CPT)	3	0	1/0.4
21I	Strategic Deployment (LT)	3	0	0
21I	Strategic Deployment (CPT)	3	2	35/0

*Alpha-numeric digit refers to original CASS subject paragraph.

ANNEX J

Anomalies*

<u>MP School</u>	<u>Suff</u>	<u>Hr(S)</u>	<u>Hr(P/I)</u>
1C(4) Airspace Mgmt (LT and CPT)	4	0	0.3/0 (Both)
2D Defensive Ops (CPT)	2	4	0
3C(1) Staff Procedures in Combat (LT)	2	4	0
4G Patrolling (CPT)	1	2	0
5H Relief of Encircled Forces (CPT)	2	1	0
5J Deception Ops (CPT)	2	2	0
6A(3) Rear Area (LT)	2	4	14/3
6F Breakout/Linkup (CPT)	2	1	0
6G C ³ Options Once Btl Begins (CPT)	2	2	0
8B Reconnaissance (CPT)	1	6	0/0.3
9B(2) RACO-Perimeter Defense (CPT)	1	7	17/2
9D Counterinsurgency Ops (LT and CPT)	2	8	0 (Both)
9J Civil Affairs (LT and CPT)	2	2	0 (Both)
9N Ranger Ops (LT)	3	0	0
9N Ranger Ops (CPT)	3	0	.5/0
10A Desert (LT and CPT)	3	0	0.2/0 (Both)
10B Jungle (LT)	3	0	.2/0
10B Jungle (CPT)	3	0	.4/0
10C Mountain (LT)	3	0	.2/0
10C Mountain (CPT)	3	0	.5/0
10D Northern Regions (LT and CPT)	3	0	0 (Both)
11C FA Organization, Command and Control (LT)	2	2	10/0
11E Land Space Rqmts in MBA/CFA (LT and CPT)	4	0	1/0 (Both)
12D Unit Active AD Measures (LT)	2	1	0
12D Unit Active AD Measures (CPT)	1	1	0
12F Visual Aircraft Recognition (LT and CPT)	2	2	0 (Both)
16C Survivability (LT)	2	32	.2/0
16C Survivability (CPT)	1	46	.2/0
20A(4) Aviation Logistics (CPT)	4	0	2/0
20B(1) Ammo Spt Structure/Requisition (CPT)	2	1	0
20B(2) Ammo Safety, Stor., Transp (CPT)	2	2	0
20B(5) Ammo Emer. Dest Procd (LT and CPT)	2	1	0 (Both)
20C(1) Recovery/Evac (CPT)	2	1	0
20C(2) Cmd/Staff Mgmt of PM (LT and CPT)	2	2	0 (Both)
20D(1) Accountability (LT)	2	1	0
20D(1) Accountability (CPT)	1	2	0
20D(2) Estimates (LT)	2	1	0
20D(2) Estimates (CPT)	1	2	0
20D(3) Casualty Reporting (CPT)	1	2	0
20D(4) Replacements (LT)	2	1	0
20D(4) Replacements (CPT)	1	2	0
20D(5)(A) First Aid (CPT)	2	8	0
20E Supply (CPT)	2	34	0

20H	Field Services (CPT)	2	2	0
21A	Vehicle Recognition (LT and CPT)	2	4	0 (Both)
21H	Smoke Ops (CPT)	2	2	0
21J	Training Mgmt (LT)	2	24	0
21J	Training Mgmt (CPT)	1	25	0
21K	How to Train (LT)	2	12	0
21K	How to Train (CPT)	1	1	0

*Alpha-numeric digit refers to original CASS subject paragraph.

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Anomalies*

<u>MI School</u>		<u>Suff</u>	<u>Hr(S)</u>	<u>Hr(P/I)</u>
4G	Patrolling (CPT)	1	0	0
5H	Relief of Encircled Forces (CPT)	3	0	0
5I	Reconnaissance in Force (CPT)	3	0	0
8E	Ops of Div Cav (CPT)	2	0	0
9B(2)	RACO-Perimeter Defense (CPT)	3	0	0
9B(3)	RACO-Active/Passive Security (CPT)	2	0	0
9B(4)	RACO-Weapons Employment (CPT)	3	0	0
9B(5)	RACO-Physical Layout of Rear Area (CPT)	3	0	0
9G	Foreign Internal Defense (CPT)	3	0	0
9H	UW Operations (CPT)	3	0	0
9I	PSYOPS (CPT)	3	0	0
9J	Civil Affairs (CPT)	2	0	0
9K	Amphibious (CPT)	3	0	0
9L	Airborne (CPT)	2	0	0
9N	Ranger (CPT)	3	0	0
11A	Request and Adjust Fire (CPT)	1	0	0
11B	Artillery Effects (CPT)	3	0	0
12F	Visual Aircraft Recognition (CPT)	2	0	0
13C	Combat Service Spt Aviation (CPT)	3	0	0
19	NATO Interoperability (CPT)	3	0	0
20A(1)(A)	Air (CPT)	2	0	0
20A(1)(B)	Land (CPT)	2	0	0
20A(1)(C)	Sea (CPT)	2	0	0
20A(2)	Convoy Ops (CPT)	2	0	0
20A(3)	Movement Control (CPT)	3	0	0
20A(4)	Aviation Logistics (CPT)	3	0	0
20B(1)	Ammo Spt Structure/Requisitioning (CPT)	3	0	0
20B(2)	Ammo Safety, Storage, Transp (CPT)	2	0	0
20B(3)	Ammo Supply Rates/DAO Func. (CPT)	3	0	0
20B(4)	Munition ID (CPT)	3	0	0
20B(5)	Ammo Emer. Dest. Proced (CPT)	3	0	0
20B(6)	EOD Ops (CPT)	3	0	0
20D(2)	Estimates (CPT)	2	0	0
20D(5)(B)	Med. Evac (CPT)	2	0	0
20H	Field Services (CPT)	3	0	0
21A	Vehicle Recognition (CPT)	2	0	0
21B	POW Processing (CPT)	1	0	0
21E	Process Captured Doc/Mat (CPT)	1	0	0

*Alpha-numeric digit refers to original CASS subject paragraph.

ANNEX J

Anomalies*

<u>Chemical School</u>	<u>Suff</u>	<u>Hr(S)</u>	<u>Hr(P/I)</u>
1C(4) Airspace Mgmt (LT)	2	1	0
1C(5) Protection of Sensors and Deep Attack Sys (CPT)	2	.1	0
2F Special Ops (LT)	2	1	0
3C(1) Staff Procedures in Combat (CPT)	1	8	30/0
3C(2) Plans, Orders, Graphics, Reds and Rpts (CPT)	1	10	30/0
4E River Crossing (LT)	2	2	0
4F Operations in Limited Visibility (CPT)	1	14	0/0.5
4G Patrolling (LT)	2	4	16/48
5H Relief of Encircled Forces (LT)	2	.5	0
6F Breakout/Linkup (LT)	2	2	0
8C Security (LT)	2	1	0
8D Economy of Force (LT)	2	.5	0
8E Ops of Div. Cav (LT)	2	2	0
8F Covering Force (LT)	2	2	0
9A MOUT (LT)	2	2	0
9C Reconstitution of Ineff Unit (CPT)	2	1	0
9D Counterinsurgency Ops (LT and CPT)	2	1	0 (Both)
9E Counterterror (LT and CPT)	2	1	0 (Both)
9F SF Ops (LT)	2	.5	0
9F SF Ops (CPT)	2	1	0
9H Unconventional Warfare (CPT)	2	1	0
9I PSYOPS (CPT)	2	1	0
9K Amphibious Ops (CPT)	2	2	0
9N Ranger Ops (LT and CPT)	2	1	0 (Both)
10A Desert (LT)	2	2	0
10B Jungle (LT)	2	2	0
10C Mountain (LT)	2	1	0
10D Northern Regions (LT)	2	1	0
12C Non-Divisional AD Sys (LT)	2	1	0
12F Visual Aircraft Recognition (CPT)	2	1	0
14B(2) Nuc Battle Tactics (LT)	2	5	0
14D Nuc Logistics (LT)	2	2	0
14E Reconstitution (LT)	2	1	0
14E Reconstitution (CPT)	1	3	0
15C Survivability (LT)	2	1	0
18A SIGINT (LT)	2	0.2	0
18B IMINT (LT)	2	0.2	0
18E IPB (LT)	2	0.5	0
18F Tac. All Source Intel Prod (LT)	2	0.5	0
19 NATO Interoperability (CPT)	2	2	0
20A(1)(A) Air (LT)	2	0.5	0
20A(1)(A) Air (CPT)	2	1	0

20A(1)(B)	Land (LT)	2	0.5	0
20A(1)(B)	Land (CPT)	2	1	0
20A(1)(C)	Sea (LT)	2	0.5	0
20A(1)(C)	Sea (CPT)	2	1	0
20A(2)	Convoy Ops (CPT)	2	3	0
20A(3)	Movement Control (CPT)	2	2	0
20A(4)	Aviation Logistics (LT)	2	2	0
20A(4)	Aviation Logistics (CPT)	2	3	0
20B(2)	Ammo Safety, Stor, Transp (LT)	2	2	0
20B(5)	Ammo Emer. Dest Proced (LT)	2	2	0
20B(5)	Ammo Emer. Dest Proced (CPT)	1	3	0
20D(2)	Estimates (LT)	2	.5	0
20D(3)	Casualty Reporting (CPT)	2	1	0
20D(4)	Replacements (LT)	2	0.5	0
20D(4)	Replacements (CPT)	2	1	0
20F	POL (LT)	2	1	0
20G	Subsistence (LT)	2	1	0
21A	Vehicle Recognition (CPT)	2	1	0
21H	Smoke Operations (LT)	1	75	93/0.2
21I	Strategic Deployment (CPT)	2	1	0

*Alpha-numeric digit refers to original CASS subject paragraph.

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Anomalies*

<u>Ordinance School</u>		<u>Suff</u>	<u>Hr(S)</u>	<u>Hr(P/I)</u>
1A	Mission/Role of USA (CPT)	3	0	0/2
1B	Principles of War (CPT)	3	0	0/0.1
1C(4)	Airspace Mgmt (LT and CPT)	3	0	0 (Both)
1D	Fundamentals of Mod Cmbt (LT)	2	8	0
3B	Org/Prep for Cmbt (LT)	2	2	0
3B	Org/Prep for Cmbt (CPT)	2	1	0
3C(1)	Staff Procedures in Cmbt (LT)	2	2	0
3C(2)	Plans, Orders, Graphs, Rcds, Rpts (LT)	2	4	0
3C(3)	Decisionmaking (LT)	2	2	0
4D	Passage of Lines (LT)	4	0	0/0.2
4G	Patrolling (CPT)	2	.5	0
8F	Covering Force (LT)	4	0	0/0.2
9B(5)	RACO-Physical Layout of Rear Area (CPT)	1	3	0
9C	Reconstitution of Ineff Unit (CPT)	3	0	0/0.5
9D	Counterinsurgency Ops (CPT)	3	0	0
9E	Counterterror (LT and CPT)	3	0	0 (Both)
9F	SF Ops (LT and CPT)	3	0	0 (Both)
9G	Foreign Internal Defense (LT and CPT)	3	0	0 (Both)
9H	UW Ops (CPT)	3	0	0
9I	PSYOPS (LT and CPT)	3	0	0 (Both)
9J	Civil Affairs (CPT)	3	0	0/0.1
9K	Amphibious (CPT)	3	0	0
9L	Airborne (LT)	3	0	0
9M	Airmobile (LT)	3	0	0
9N	Ranger (LT and CPT)	3	0	0 (Both)
10A	Desert (CPT)	3	0	0/0.1
10B	Jungle (CPT)	3	0	0/0.1
10C	Mountain (CPT)	3	0	0/0.1
10D	Northern Regions (CPT)	3	0	0
11A	Request/Adj Fire (CPT)	2	0	2/0
11B	Artillery Effects (CPT)	1	0	0
11D	Priority of Spt on Ext Btlfld (LT)	3	0	0
11E	Land Space Rqmts in MBA/CFA (CPT)	3	0	0/0.1
12C	Non-Divisional AD Sys (LT)	3	0	0
13A	Combat Aviation (CPT)	3	0	0/0.5
13B	CS Aviation (CPT)	3	0	0
13C	CSS Aviation (CPT)	2	0	0
14B(1)	Nuc Battle Planning (LT)	4	0	4/0
14B(1)	Nuc Battle Planning (CPT)	3	.5	13/0.1
14C	Nuc Release/Employment (CPT)	3	0	0/0.1
15E	ADM Ops (CPT)	4	0	.1/0
16F	Reconstitution (LT)	3	0	0
16G	NBC Logistics (CPT)	3	0	0
17A	ESM (LT)	3	0	0

17D	Integrated Ops w/Tactics (LT)	3	0	0
18A	SIGINT (LT)	3	0	0
18A	SIGINT (CPT)	3	0	.1/0
18B	IMINT (LT)	3	0	0
18B	IMINT (CPT)	3	0	.1/0
18C	HUMINT (LT)	3	0	0
18C	HUMINT (CPT)	3	0	.1/0
18D	Counterintelligence (CPT)	3	0	0/0.1
18E	IPB (LT)	3	0	0
19	NATO Interoperability (LT)	2	2	0
19	NATO Interoperability (CPT)	2	0	0
20A(1)(A)	Air (LT)	2	1	0
20A(1)(A)	Air (CPT)	1	3	0
20A(1)(B)	Land (LT)	2	1	0
20A(1)(B)	Land (CPT)	1	3	0
20A(1)(C)	Sea (LT)	2	1	0
20A(1)(C)	Sea (CPT)	1	2	0
20A(4)	Aviation Logistics (CPT)	3	0	0
20B(1)	Ammo Spt Structure and Requisitioning (CPT)	2	3	0
20B(2)	Ammo Safety, Stor., Transp (CPT)	2	3	0
20B(3)	Supply Rates/DAO Func. (CPT)	2	3	0
20B(4)	Munitions Ident. (CPT)	2	1	0
20B(5)	Ammo. Emergency Dest Proced (CPT)	2	1	0
20B(6)	EOD Ops (CPT)	2	.5	0
20D(2)	Estimates (CPT)	1	2	0
20D(3)	Casualty Reporting (LT)	3	0	0
20D(3)	Casualty Reporting (CPT)	2	0	0
20D(4)	Replacements (LT)	3	0	0
20D(4)	Replacements (CPT)	2	1	0
20D(5)(A)	First Aid (LT)	2	0	0/1
20D(5)(A)	First Aid (CPT)	2	0	0
20D(5)(B)	Med Evac (CPT)	2	0	0
20F	POL (LT)	3	0	1/0
20F	POL (CPT)	2	0	0
20G	Subsistence (CPT)	2	0	2/0
20H	Field Services (CPT)	2	3	0
21A	Vehicle Identification (CPT)	2	0	16/0
21B	POW Processing (LT)	1	1	0
21B	POW Processing (CPT)	1	0	0
21C	Geneva Convention (CPT)	1	0	0
21D	Code of Conduct (CPT)	1	0	0
21F	Land Navigation (CPT)	1	2	0
21G	Use of Org. Radio Equip (CPT)	1	0	0/0.5
21H	Smoke Ops (LT)	3	0	0
21I	Strategic Deployment (CPT)	2	1	0

*Alpha-numeric digit refers to original CASS subject paragraph.

ANNEX J

Due to the manner in which the data was reported, anomalies for the Missile and Munitions School were not discernible.

ANNEX J

Anomalies*

<u>Adjutant General School</u>		<u>Suff</u>	<u>Hr(S)</u>	<u>Hr(P/I)</u>
1A	Mission/Role of USA (LT and CPT)	2	2	0 (Both)
1C(5)	Protection of Sensors and Deep Attack Sys (CPT)	4	0	0/0.5
1D	Fundamentals of Mod. Cmbt (LT and CPT)	2	2	0 (Both)
3B	Organization/Preparation for Cmbt (LT)	2	2	0
3B	Organization/Preparation for Cmbt (CPT)	1	4	0
3C(1)	Staff Procedures in Cmbt (LT)	2	6	0
3C(1)	Staff Procedures in Cmbt (CPT)	1	4	0
3C(2)	Plans, Orders, Graphs, Rods, Rpts (LT)	2	1	0
3C(2)	Plans, Orders, Graphs, Rods, Rpts (CPT)	2	2	0
3C(3)	Decisionmaking (LT and CPT)	1	4	0 (Both)
3C(4)	C ³ (CPT)	2	2	0
4A	Battlefield Mvmt (CPT)	1	4	0
4C	OPSEC (CPT)	2	2	0
4G	Patrolling (CPT)	2	2	0
5A	Concepts/Fundamentals (LT)	1	2	0
5A	Concepts/Fundamentals (CPT)	1	4	0
5B	Movement to Contact (LT and CPT)	3	0	0 (Both)
5C	Meeting Engagement (LT and CPT)	3	0	0 (Both)
5D	Hasty Attack (LT and CPT)	2	2	0 (Both)
6A(1)	Covering Force Area (LT)	2	1	0
6A(2)	Main Battle Area (LT)	2	1	0
6B	Defense in Sector (LT and CPT)	2	1	0 (Both)
6C(1)	Linear (LT and CPT)	2	1	0 (Both)
6C(2)	In-Depth (LT and CPT)	2	1	0 (Both)
6C(3)	Perimeter (LT and CPT)	2	1	0 (Both)
6D	Strong Points (LT and CPT)	2	1	0 (Both)
6E	Counterattack (LT and CPT)	2	1	0 (Both)
9A	MOUT (LT and CPT)	2	2	0 (Both)
9B(2)	RACO-Perimeter Defense (LT and CPT)	1	4	0 (Both)
9B(3)	RACO-Active/Passive Security (LT and CPT)	1	4	0 (Both)
9B(4)	RACO-Weapons Employment (CPT)	1	4	0
9B(5)	RACO-Physical Layout of Rear Area (LT and CPT)	1	4	0 (Both)
11A	Request/Adjust Fire (LT and CPT)	1	2	0 (Both)
12E	Unit Passive AD Measures (LT and CPT)	1	2	0 (Both)
12F	Visual Aircraft Recognition (LT and CPT)	2	2	0 (Both)
14E	Reconstitution (LT)	2	1	0
14E	Reconstitution (CPT)	2	2	0
16E	Defensive Use (LT and CPT)	2	2	0 (Both)
17A	ESM (LT)	4	0	0/2
18D	Counterintelligence (LT and CPT)	2	2	0 (Both)
20A(1)(A)	Air (CPT)	2	1	0
20A(1)(B)	Land (LT and CPT)	1	2	0 (Both)

20A(2)	Convoy Ops (LT and CPT)	2	2	0 (Both)
20A(3)	Movement Control (LT and CPT)	2	1	0 (Both)
20C(4)	PMCS (CPT)	1	4	0
20C(5)	TAMMS (LT and CPT)	2	1	0 (Both)
20D(2)	Estimates (LT and CPT)	2	1	0 (Both)
20D(5)(A)	First Aid (CPT)	1	2	0
20D(5)(B)	Medical Evac (LT and CPT)	2	1	0 (Both)
20F	POL (LT and CPT)	2	1	0 (Both)
20G	Subsistence (LT and CPT)	2	2	0 (Both)
20H	Field Services (LT and CPT)	2	2	0 (Both)
21C	Geneva Convention (LT and CPT)	2	1	0 (Both)
21D	Code of Conduct (LT and CPT)	2	1	0 (Both)
21G	Use of Radio Equip (CPT)	1	8	0
21J	Training Mgmt (LT)	1	4	0
21J	Training Mgmt (CPT)	1	16	0
21K	How to Train (LT)	2	1	0
21K	How to Train (CPT)	1	16	0

*Alpha-numeric digit refers to original CASS subject paragraph.

ANNEX J

Anomalies*

<u>Finance School</u>		<u>Suff</u>	<u>Hr(S)</u>	<u>Hr(P/I)</u>
1A	Mission/Role of USA (LT)	2	2	0
1A	Mission/Role of USA (CPT)	2	1	0
1C(5)	Protection of Sensors and Deep Attack Sys (CPT)	4	0	0/0.5
1D	Fundamentals of Mod Cmbt (LT and CPT)	2	3	0 (Both)
2E	Combat Support (LT)	4	0	0/7
3C(1)	Staff Procedures in Combat (CPT)	2	16	0
3C(2)	Plans, Orders, Graphs, Rds, Rpts (LT)	2	8	0
3C(2)	Plans, Orders, Graphs, Rds, Rpts (CPT)	2	4	0
3C(3)	Decisionmaking (CPT)	2	8	0
3C(4)	C3 (CPT)	2	4	0
4A	Battlefield Mvmt (CPT)	2	4	0
4C	OPSEC (CPT)	2	2	0
6C(3)	Perimeter (LT and CPT)	2	4	0 (Both)
9B(2)	RACO-Perimeter Defense (LT)	2	4	0
9B(2)	RACO-Perimeter Defense (CPT)	1	4	0
9B(3)	RACO-Active/Passive Security (LT)	2	4	0
9B(3)	RACO-Active/Passive Security (CPT)	1	4	0
9B(4)	RACO-Weapons Employment (CPT)	1	4	0
9B(5)	RACO-Physical Layout of Rear Area (LT)	2	2	0
9B(5)	Physical Layout of Rear Area (CPT)	1	4	0
9C	Reconstitution of Ineff Unit (CPT)	1	4	0
11A	Request/Adjust Fire (LT and CPT)	2	2	0 (Both)
11D	Priority of Spt on Ext. Btlfld (CPT)	2	2	0
12D	Unit Active AD Measures (CPT)	2	3	0
12E	Unit Passive AD Measures (LT)	2	2	0
12E	Unit Passive AD Measures (CPT)	1	4	0
12F	Visual Aircraft Recognition (LT and CPT)	2	2	0 (Both)
16E	Defensive Use (LT and CPT)	2	4	0 (Both)
16F	Reconstitution (CPT)	2	4	0
17A	ESM (LT and CPT)	4	0	0/2 (Both)
20A(2)	Convoy Ops (CPT)	2	4	0
20C(4)	PMCS (CPT)	2	4	0
20C(5)	TAMMS (LT and CPT)	2	4	0 (Both)
20D(1)	Accountability (LT and CPT)	2	2	0 (Both)
20D(2)	Estimates (CPT)	2	2	0
20D(5)(A)	First Aid (CPT)	2	2	0
20G	Subsistence (CPT)	2	4	0
21C	Geneva Convention (LT and CPT)	2	1	0 (Both)
21D	Code of Conduct (LT and CPT)	2	1	0 (Both)
21G	Use of Radio Equip (CPT)	1	8	0
21I	Strategic Deployment (CPT)	1	16	0
21J	Training Mgmt (LT)	2	4	0
21J	Training Mgmt (CPT)	1	8	0
21K	How to Train (LT)	2	16	0
21K	How to Train (CPT)	1	8	0

*Alpha-numeric digit refers to original CASS subject paragraph.

ANNEX J

Anomalies*

<u>Quartermaster School</u>		<u>Suff</u>	<u>Hr(S)</u>	<u>Hr(P/I)</u>
4E	River Crossing (CPT)	2	2	0
5C	Meeting Engagement (CPT)	2	3	0
5I	Reconnaissance in Force (CPT)	2	3	0
6A(3)	Rear Area (CPT)	2	5	16/2
6C(1)	Linear Defense (CPT)	2	3	0
6F	Breakout/Linkup (CPT)	2	3	0
7D	Retirement (CPT)	2	3	0
8E	Ops of Div Cav (CPT)	2	2	0
9K	Amphibious Ops (CPT)	2	3	0
9L	Airborne Ops (CPT)	2	5	0
9M	Airmobile Ops (CPT)	2	2	0
10B	Jungle Ops (CPT)	2	2	0
10C	Mountain (CPT)	2	2	0
10D	Northern Regions (CPT)	2	2	0
12C	Non-Divisional AD Sys (CPT)	2	2	0
12F	Visual Aircraft Recognition (CPT)	2	3	0
12G	Priority of Spt on Ext Btlfld (CPT)	2	5	0
18A	Signals Intelligence (LT)	4	0	1/0
20A(3)	Movement Control (LT)	2	7	0
20A(4)	Aviation Logistics (CPT)	2	6	0
20D(1)	Accountability (LT)	2	3	0
20D(5)(B)	Med. Evacuation (CPT)	2	2	0
21A	Vehicle Recognition (LT)	2	3	0
21E	Process Captured Doc/Mat (LT)	2	3	0
21H	Smoke Ops (LT and CPT)	2	3	0 (Both)

*Alpha-numeric digit refers to original CASS subject paragraph.

ANNEX J

Anomalies*

<u>Transportation School</u>		<u>Suff</u>	<u>Hr(S)</u>	<u>Hr(P/I)</u>
3A	Leadership (CPT)	2	7	24/12
9B(2)	RACO-Perimeter Defense (LT)	2	4	3.3/100
9C	Reconstitution of Ineffective Units (LT)	4	0	.1/0
13A	Combat Aviation (CPT)	3	1	16/0
13B	Combat Support Aviation (LT)	3	2	7/0
13B	Combat Support Aviation (CPT)	3	1	27/0
13C	Combat Service Support Aviation (LT)	3	2.5	9.5/0
13C	Combat Service Support Aviation (CPT)	2	2	49/0
15A	Mobility (LT)	4	0	.2/0
15B	Countermobility (LT)	4	0	.2/0
16F	Reconstitution (LT)	4	0	0/0.2
16F	Reconstitution (CPT)	4	0	1/0.2
18E	IPB (LT)	4	0	0/0.2
20B(1)	Ammo Spt Structure/Requisition (LT)	2	2	0
20C(2)	Command and Staff Management of PM (LT)	1	6	95/0
20F	POL (LT)	2	3	0
20F	POL (CPT)	2	3.5	0

*Alpha-numeric digit refers to original CASS subject paragraph.

ANNEX J

Anomalies*

<u>Academy Health Sciences</u>	<u>Suff</u>	<u>Hr(S)</u>	<u>Hr(P/I)</u>
4F Ops During Limited Visibility (CPT)	1	1	0
9B(2) RACO-Perimeter Defense (CPT)	1	1	0
9B(5) RACO-Physical Layout of the Rear Area (CPT)	1	1	0
9I Psychological Operations (LT)	2	1	0
9J Civil Affairs (LT)	2	1	0
10A Desert (LT)	2	1	0
10A Desert (CPT)	1	1	0
10B Jungle (LT)	2	1	0
10B Jungle (CPT)	1	1	0
10C Mountain (LT)	2	1	0
10C Mountain (CPT)	1	1	0
10D Northern Regions (LT)	2	1	0
10D Northern Regions (CPT)	1	1	0
11C Organization, Cmd/Control (LT and CPT)	2	1	0 (Both)
11D Priority of Spt on Ext Btlfld (LT)	2	1	0
11D Priority of Spt on Ext Btlfld (CPT)	1	1	0
12G Priority of Spt on Ext. Btlfld (LT and CPT)	2	1	0 (Both)
16E NBC Defensive Use (CPT)	2	3	0
17C SIGSEC (LT and CPT)	2	1	0 (Both)
20A(1)(A) Air (LT)	2	2	0
20A(1)(A) Air (CPT)	1	3	0
20A(1)(B) Land (LT)	2	2	0
20A(1)(B) Land (CPT)	1	3	0
20A(1)(C) Sea (LT)	2	2	0
20A(1)(C) Sea (CPT)	1	3	0
20A(2) Convoy Ops (LT)	2	2	0
20A(2) Convoy Ops (CPT)	1	3	0
20A(3) Movement Control (LT)	2	2	0
20A(3) Movement Control (CPT)	1	3	0
20B(2) Ammo Safety, Stor, Transp (LT)	2	1	0
20B(2) Ammo Safety, Stor, Transp (CPT)	1	2	0
20C(1) Recovery/Evac (LT)	2	3	0
20C(1) Recovery/Evac (CPT)	1	4	0
20C(2) Cmd/Stf Mgmt of PM (LT)	1	3	0
20C(2) Cmd/Stf Mgmt of PM (CPT)	1	4	0
20C(3) PLL (LT)	1	3	0
20C(3) PLL (CPT)	1	4	0
20C(4) Prev. Maint Checks/Svcs (LT)	1	3	0
20C(4) Prev. Maint Checks/Svcs (CPT)	1	4	0
20C(5) The Army Maintenance Mgmt Sys (LT)	1	3	0
20D(1) Accountability (CPT)	1	4	0
20D(2) Estimates (LT)	1	3	0
20D(4) Replacements (LT)	2	3	0
20D(5)(A) First Aid (CPT)	1	3	0
20G Subsistence (LT and CPT)	2	2	0 (Both)
20H Field Services (LT and CPT)	2	2	0 (Both)
21H Smoke Ops (CPT)	2	1	0
21K How to Train (CPT)	1	2	0

*Alpha-numeric digit refers to original CASS subject paragraph.

ANNEX K

METHODOLOGY

ANNEX K

METHODOLOGY

1. Several assumptions were made in the analysis of the data:

a. The data provided from each school and proponent is the most current and accurate available.

b. TRADOC schools can be placed into one of four general functional categories as follows: Combat Arms Maneuver, Combat Arms Non-Maneuver, Combat Support, Combat Service Support.

c. Combined Arms subjects can be defined in battlefield functional terms which each branch officer, regardless of tactical level of involvement, needs to understand. The degree of individual subject coverage will vary by school, but some knowledge of Combined Arms application is vital to successful functioning on the AirLand Battlefield.

2. A system of averaging was applied to determine the relative importance of each subject and appropriate level of sufficiency for each functional arms group. Averages (means) used in data compilation have been rounded off to the nearest tenth of a point.

3. Within functional arms groups, certain schools having particular interest in specific subject areas (e.g., key users) rated those subjects significantly higher, in both sufficiency level and hours, than did the other schools. In such cases to avoid inflated averages from skewed data, the proponent's rating was substituted for that key user's data in computing the mean. For example, in the CSS group for Supply the key users with specialty interest were the Ordnance and Quartermaster School. Both rated this subject very high and called for large amounts of time to assure sufficiency. Factoring their ratings into the mean would have resulted in a disproportionate and inflated sufficiency level and hours required. To define a more useful mean, the proponent's recommendation of sufficiency level 3 and 25 hours was substituted for these school's data.

ANNEX L

PROPOSED OAC COMMON CORE

ANNEX L

PURPOSED OAC COMMON CORE

<u>SUBJECTS</u>	<u>OBJECTIVE SUFFICIENCY</u>	<u>PROPONENT</u>
1. DOCTRINAL BASICS		
A. FUNDAMENTALS OF COMBAT (PRINCIPLES OF WAR) (RULES OF COMBAT)	2 (WORKING KNOWLEDGE)	CGSC
B. USA AIRLAND BATTLE OPERATIONAL DOCTRINE	2	CGSC
C. USA ORGANIZATION/CAPABILITIES (BN, BDE, DIV,)	2	CGSC
D. FORCE MODERNIZATION ISSUES	3 (FAMILIAR)	CGSC
(1) NEW EQUIPMENT		
(2) NEW ORGANIZATION		
2. COMMAND, CONTROL, AND COMMUNICATIONS (C3)		
A. STAFF PROCEDURES IN COMBAT	2	CGSC
B. DECISION MAKING	2	CGSC
C. COMMAND POST FUNCTION/ORGANIZATION	2	CGSC
D. PLANS, ORDERS, ESTIMATES, GRAPHICS, RECORDS AND REPORTS (TO INCLUDE THE FIVE PARAGRAPH FIELD ORDER AS SPECIFIED IN FM 100-5)	2	CGSC
E. COMMAND, CONTROL, AND COMMUNICATIONS (C3) TO INCLUDE COUNTERMEASURES AND CONTROL MEASURES	2	CGSC
F. AIRSPACE MANAGEMENT	3	CGSC
3. INTELLIGENCE AND ELECTRONIC WARFARE		
A. TACTICAL INTELLIGENCE, (INCLUDES IPB)	2	USAICS
B. ELECTRONIC WARFARE	2	USAICS

<u>SUBJECTS</u>	<u>LEVEL</u>	OBJECTIVE SUFFICIENCY <u>PROONENT</u>
C. TACTICAL ALL-SOURCE INTELLIGENCE PRODUCTION		USAICS
(1) SIGINT	3	
(2) IMINT	3	
(3) HUMINT	3	
(4) CI	3	
4. AIR DEFENSE		AD
A. SHORAD	3	
B. MANPORTABLE AD SYSTEMS	3	
C. NON-DIVISIONAL AD SYSTEMS	3	
D. UNIT ACTIVE AD MEASURES	3	
E. UNIT PASSIVE AD MEASURES	3	
F. AD PRIORITY SUPPORT IN THE AIRLAND BATTLE	3	
G. AD LAND SPACE REQUIREMENTS IN MBA/CFA AND DURING OFFENSE	3	
5. CLOSE COMBAT		
A. TACTICAL BASICS		
(1) OPSEC	2	CGSC/USAICS/ SC
(2) OPERATIONS DURING OBSCURED BATTLEFIELD CONDITIONS (TO INCLUDE NIGHT AND SMOKE OPERATIONS)	3	IN/AR/FA/CM
(3) PATROLLING	3	IN
(4) TERRAIN ANALYSIS/APPRECIATION	2	USAICS

<u>SUBJECTS</u>	<u>LEVEL</u>	OBJECTIVE SUFFICIENCY
		<u>PROPONENT</u>
B. THREAT		CACDA
(1) MISSIONS/ROLES OF THREAT ARMED FORCES	2	
(2) ORGANIZATION/EQUIPMENT	2	
(3) OFFENSIVE OPERATIONS	2	
(4) DEFENSIVE OPERATIONS	2	
(5) COMBAT SUPPORT	2	
(6) SPECIAL OPERATIONS	2	
C. OFFENSIVE TACTICS		
(1) DOCTRINE/FUNDAMENTALS	3	IN/AR
(A) ORGANIZATION/PREPARATION FOR COMBAT		
(B) AREA OF INFLUENCE		
(C) AREA OF INTEREST		
(2) MOVEMENT TO CONTACT	3	IN/AR
(3) HASTY ATTACK	3	IN/AR
(4) DELIBERATE ATTACK	3	IN/AR
(5) EXPLOITATION	3	IN/AR
(6) PURSUIT	3	IN/AR
(7) APPROACH OF ENCIRCLED FORCES	3	IN/AR
(8) RECONNAISSANCE IN FORCE	3	IN
(9) MOUT	3	IN
D. DEFENSIVE TACTICS		
(1) DOCTRINE/FUNDAMENTALS	3	IN/AR

<u>SUBJECTS</u>	<u>LEVEL</u>	OBJECTIVE SUFFICIENCY	<u>PROPONENT</u>
(A) ORGANIZATION/PREPARATION FOR COMBAT			
(B) AREA OF INFLUENCE AND INTEREST			
(C) COVERING FORCE AREA			
(D) MAIN BATTLE AREA			
(E) REAR AREA			
(2) DEFENSE IN DEPTH	3		IN/AR
(3) EMPLOYMENT OF RESERVES	3		IN/AR
(4) DEFENSE FROM BATTLE POSITIONS	3		IN/AR
(5) BREAKOUT/LINKUP	3		IN/AR
(6) MOUT	3		IN
E. RECONNAISSANCE AND SECURITY MISSIONS			AR
(1) DOCTRINE/FUNDAMENTALS	3		
(2) RECONNAISSANCE	3		
(3) SECURITY	3		
(4) ECONOMY OF FORCE	3		
(5) CAVALRY	3		
6. FIRE SUPPORT			
A. INDIRECT FIRE SUPPORT			FA
(1) FA ORGANIZATION, COMMAND & CONTROL	3		
(2) FA PRIORITY SUPPORT	3		
(3) FA LAND SPACE REQUIREMENTS IN MBA/CFA AND DURING OFFENSE	3		

<u>SUBJECTS</u>	<u>LEVEL</u>	OBJECTIVE SUFFICIENCY <u>PROPONENT</u>
(4) TARGET VALUE ANALYSIS PROCEDURES	3	
B. CLOSE AIR SUPPORT (CAS & BAI)	3	CGSC
C. SEAD	3	CGSC
D. NUCLEAR AND CHEMICAL WEAPON EMPLOYMENT (NUCLEAR AND CHEMICAL ACTION PLAN)		FA/CM/CGSC
(1) DOCTRINE (AIRLAND)	3	CM
(2) US/NATO EMPLOYMENT POLICY AND US NATIONAL POLICY	3	CM
(3) SOVIET/WARSAW PACT NBC THREAT	3	CM
(4) NBC WEAPONS EFFECTS ON PERSONNEL, EQUIPMENT, AND MISSION	3	CM
(5) SUSTAINED OPERATIONS IN NBC ENVIRONMENT	3	CM
(6) FALLOUT PREDICTION AND RADIOLOGICAL MONITORING	3	CM
(7) NBC DETECTION, WARNING AND REPORTING	3	CM
(8) PSYCHOLOGICAL PREPARATION FOR NBC BATTLEFIELD STRESS	3	CM
(9) EMP	3	CM
(10) MOBILITY RESTRICTIONS IN NBC ENVIRONMENT	3	CM
(11) INTEGRATION/EXPLOITATION OF FRIENDLY NUCLEAR AND CHEMICAL FIRES	3	CM/FA
(12) NUCLEAR AND CHEMICAL WEAPONS EFFECTS AND VULNERABILITY ANALYSIS TECHNIQUES	3	FA

<u>SUBJECTS</u>	<u>LEVEL</u>	OBJECTIVE SUFFICIENCY <u>PROPONENT</u>
7. ENGINEER (COMBAT SUPPORT)		EN
A. MOBILITY	3	
B. COUNTERMOBILITY	3	
C. SURVIVABILITY	3	
D. MINE WARFARE	3	
E. AREA DAMAGE CONTROL	3	
8. ARMY AVIATION		AV
A. COMBAT AVIATION	3	
B. COMBAT SUPPORT AVIATION	3	
C. AIR CAVALRY	3	
9. MILITARY POLICE	3	MP
A. COMBAT ROLE		
B. MOVEMENT CONTROL		
C. SECURITY		
10. COMBAT SERVICE SUPPORT		
A. DIVISION SUPPORT COMMAND (DISCOM)	3	LOGCEN
B. CORPS SUPPORT COMMAND (COSCOM)	3	LOGCEN
C. COMBAT SERVICE SUPPORT OPERATIONS		
(1) ORGANIZATION	3	LOGCEN
(2) LOGISTICS OPERATIONS	3	QM/MM
(A) SUPPLY CLASSIFICATIONS		
(B) RESUPPLY/BASIC LOAD CONSIDERATIONS		

<u>SUBJECTS</u>	<u>LEVEL</u>	OBJECTIVE SUFFICIENCY	<u>PROPONENT</u>
(3) TRANSPORTATION OPERATIONS	3		TC
(4) FIELD SERVICES OPERATIONS	3		QM
(5) MAINTENANCE OPERATIONS	3		OD
(6) PERSONNEL AND ADMINISTRATION OPERATIONS	3		SSC
(7) MEDICAL SERVICES	3		AHS
D. COMBAT SERVICE SUPPORT PLANNING/ DISCOM FORCE DEVELOPMENT			
(1) SUPPORTING THE AIRLAND BATTLE	3		LOGCEN
(A) ORGANIZATION FOR SUPPORT			
(B) OUT OF SECTOR SUPPORT			
(2) MISSION/ROLE OF FORWARD SUPPORT BATTALION (FSB) IN SUPPORT OF BRIGADE OPERATIONS	3		LOGCEN
11. SPECIAL/OTHER OPERATIONS			
A. LOW INTENSITY CONFLICT			
(1) COUNTERINSURGENCY OPERATIONS	3		IN
(2) COUNTERTERROR OPERATIONS	3		CGSC
(3) FOREIGN INTERNAL DEFENSE	3		IMA
(4) INTERNAL DEFENSE AND DEVELOP- MENT	3		IMA
B. UNCONVENTIONAL WARFARE OPERATIONS	3		IMA
C. PSYCHOLOGICAL OPERATIONS	3		IMA
D. CIVIL AFFAIRS OPERATIONS	3		IMA

<u>SUBJECTS</u>	<u>OBJECTIVE SUFFICIENCY</u>	
	<u>LEVEL</u>	<u>PROPONENT</u>
E. SPECIAL TERRAIN		
(1) DESERT	3	IN/AR
(2) JUNGLE	3	IN
(3) MOUNTAIN	3	IN
(4) COLD WEATHER	3	IN
(5) MOUT	3	CGSC
F. TACTICAL DECEPTION METHODS	3	CGSC
G. REAR AREA PROTECTION		CGSC/MP
(1) DOCTRINE/FUNDAMENTALS	3	
(2) REAR AREA COMBAT OPERATIONS FOR LEVEL I, II, III THREAT	3	
(3) MOVEMENT CONTROL	3	
(4) AREA DAMAGE CONTROL	3	
(5) FIRE SUPPORT	3	

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