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Pamphlet 350-39

Training

Standards in Weapons Training (Special Operations Forces)

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SUMMARY of CHANGE

DA PAM 350-39

Standards in Weapons Training (Special Operations Forces)

This revision--

- o Deletes requirements for M72A2 light antitank weapon (LAW) (Chap 2).
- o Deletes requirements for ranger antiarmor-antipersonnel weapon system (RAAWS) (Chap 2).
- o Deletes requirements for Stinger crews (Chap 2).
- o Deletes requirements for mine warfare (Chap 2).
- o Deletes requirements for MGXX warfare (Chap 2).
- o Deletes requirements for CAR15 warfare (Chap 2).
- o Deletes requirements for Combat Training Center (CTC) (Chap 2).
- o Adds requirements for rocket propelled grenades (RPG) (Chap 3).
- o Adds requirements for close-quarters combat (CQC) (Chap 3).
- o Adds requirements for recoilless rifles (RCRL) 84-mm and 90-mm (Chap 3).
- o Adds requirements for Stinger crews (Chap 3).
- o Adds requirements for mortars 107-mm (Chap 3).

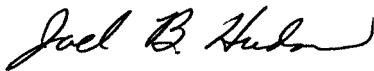
Training

Standards in Weapons Training (Special Operations Forces)

By Order of the Secretary of the Army:

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History. This is a revision of the publication printed on 30 September 1993. Because the publication has been extensively revised, the changed portions have not been highlighted.

Summary. This revised pamphlet contains

procedures for planning, resourcing, and executing training. It includes weapons qualification standards, suggested training programs, and ammunition requirements for the attainment and sustainment of weapons proficiency. The programs incorporate training devices and simulators.

Applicability. This pamphlet applies to the Special Operation Forces Deputy Chief of Staff for Operations and Plans in the Active Army, the Army National Guard, and the U. S. Army Reserve. This publication is applicable to all Special Operation Forces unit commanders, battalions, groups and major Army commands. This publication applies during partial and full mobilization.

Proponent and exception authority. The proponent of this pamphlet is the Deputy Chief of Staff for Operations and Plans. The Deputy Chief of Staff for Operations and Plans has the authority to approve exceptions to this pamphlet that are consistent with controlling law and regulation. The Deputy Chief

of Staff for Operations and Plans may delegate this authority, in writing, to a division chief within the proponent agency or a field operating agency in the grade of colonel or the civilian equivalent.

Suggested Improvements. Users are invited to send comments and suggested improvements on DA Form 2028 (Recommended Changes to Publications and Blank Forms) directly to Deputy Chief of Staff for Operations and Plans ATTN DAMO-TRO 400 Army Pentagon Washington DC 20310-0450.

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Glossary

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Chapter 1 Introduction

1-1. Purpose

a. This pamphlet provides Department of the Army (DA) requirements for weapon training programs as stated in AR 350-41, Army Forces Training. This pamphlet applies to weapons and weapon systems used throughout U.S. Army Special Operations Command (USASOC) for both Active and Reserve components. The following training programs are included in this pamphlet—

- Gunnery training programs consisting of standards for qualification.
- Suggested training strategies for individual and crew-served weapon systems to achieve those standards.
- Ammunition requirements to execute the training strategies.

b. The Army training goal is a combat-ready force prepared to deploy on short notice and to fight and defeat enemies. To help achieve that goal, this pamphlet:

- (1) Provides commanders and other unit trainers with a common set of weapon and weapon system qualification standards.
- (2) Provides commanders and other unit trainers with suggested weapon training strategies that will lead to the attainment and sustainment of standards and provide a model of resource allocation.
- (3) Provides commanders with measurable standards for evaluating a portion of their overall training readiness.

1-2. References

Required and related references are listed in Appendix A.

1-3. Explanation of abbreviations

Abbreviations used in this pamphlet are explained in the Glossary.

1-4. The Standards in Training Commission

In March 1982, the Vice Chief of Staff, Army (VCSA) established the Standards in Training Commission (STRAC), appointing a chairman and U.S. Army Training and Doctrine Command (TRADOC) U.S. Army Training Support Center (ATSC) as the Army Executive Agent. The mission was to determine the quantities and type of munitions essential for soldiers, crews, and units to attain and sustain weapon proficiency relative to readiness levels making maximum use of aids, devices, simulators, simulations and subcaliber firing.

1-5. Management

The STRAC chairman directs the program, and reports directly to the VCSA. The chairman is supported by a general officer steering committee with membership from the Army Staff Active Component (AC) and Reserve Component (RC), major Army commands (MACOM), TRADOC and the commandants of the ordnance delivering schools. The executive committee reviews the program and provides recommendations to the chairman. The weapon committees chaired by the commandants of the TRADOC proponent schools, with full MACOM representation, develop weapon training standards and strategies for staffing and approval by HQDA.

1-6. Training functions

a. The Assistant Secretary of the Army (Research Development and Acquisition) manages the research, development, and procurement of ammunition items.

b. The Deputy Chief of Staff for Operations and Plans (DA-DCSOPS)—

- (1) Trains Army Forces and chairs the STRAC.
- (2) Advises the Chief of Staff, Army and Vice Chief of Staff, Army on STRAC matters.

c. The Director of Training, Office of the DCSOPS (HQDA, DAMO-TR)—

(1) Acts on behalf of the DCSOPS as the Headquarters, Department of the Army (HQDA) point of contact for standard training programs and chairs the STRAC General Officer Working Group.

(2) Prescribes policy, coordinates standards in training requirements and develops training ammunition requirements.

(3) Prescribes criteria for, and designates units at, training levels.

(4) Monitors STRAC training programs.

(5) Resources the Army component of Combat Training Centers with ammunition, separately from units.

d. The Deputy Chief of Staff for Logistics manages transportation and storage of ammunition required to support the training programs.

e. The Commanding General, U.S. Army Training and Doctrine Command (CG, TRADOC)—

(1) Develops, standardizes and evaluates standards and training strategies.

(2) Staffs weapon training strategies through the STRAC General Officer Working Group for publication.

(3) Implements standards in training programs in the training base, where applicable.

(4) Determines annual training ammunition requirements for the training base according to standard training programs.

f. Commander of U.S. Army Special Operations Command (USASOC)—

(1) Trains forces to attain and sustain weapon proficiency standards.

(2) Determines annual training ammunition requirements and authorizations for assigned units considering standards and notional (ideal) strategies in this pamphlet, unit mission, unit priority and applicable resource guidance.

g. Commanders examine each strategy as it applies to the unit's training level, unique training needs, overall training program and objectives, as specified by mission, soldiers manual (SM), and Army Training and Evaluation Program (ARTEP).

1-7. Weapon system training programs

a. Weapons and weapon systems for which training programs have been written and approved are identified in tables 1-1 through 1-4.

b. Chapters 2 and 3 contain strategies for training and maintaining proficiency for soldiers, crews, and units in gunnery skills for Rangers and Special Forces respectively. Chapter 4 includes weapon/crew qualification requirements for the 160th Special Operations Aviation Regiment (AC) and the 1/245th Special Operations Aviation Battalion. Chapter 5 provides standards, strategies, and ammunition resources for Civil Affairs and Psychological Operations units (AC and RC). Chapter 6 covers mobilization of these units.

c. The standards listed throughout each chapter are prescriptive. The strategies provide a model for training and resourcing to attain the standards. The strategies listed are one way of meeting the standards. Commanders must examine each strategy as it applies to the unit's training level, unique training needs, overall training program and objectives as specified by mission, SM, and ARTEP. Commanders must make this determination prior to expenditure of full service ammunition, which is fixed and based on the notional strategies, thus allowing ammunition to be used more effectively on those tasks in which the unit is deficient. Flexibility in the strategies is intended to accommodate unit requirements.

d. Reference to training readiness conditions (TRC) are omitted from this revision, as redundant to table configuration.

e. Combat Training Center rotations are resourced at the CTC in question: National Training Center (NTC), and Joint Readiness Training Center (JRTC). The ammunition package for each organization is identified here for unit information.

1-8. Training devices

Training devices aid sustainment training in garrison and local training areas. Devices will enhance and sustain skills and, in some cases, may be the sole medium for training critical tasks. Devices

are an integral part of the training strategies and full caliber requirements are based on their use as presented in the strategies. A complete list and description of available devices may be found in DA Pam 350-38 in the appropriate weapon system chapter.

**Table 1-1
Ranger Unit Weapon Systems Training Programs**

Dragon	90-mm RCLR	AT-4	LAW	60-mm Mortar	M60 MMG
M246 SAW	M16A2 Rifle	M21 Sniper Rifle	M203 Grenade Launcher	Pistols: Cal .45, 9 mm	M202A1 Flash
Hand Grenade	Claymore Mine	Shotgun	MGXX	Field Arty (105/155)	Stinger
Mines	Demolitions				

**Table 1-2
Special Forces Weapon Systems Training Programs**

Standard Weapons					
TOW	106 RCLR	AT-4	LAW	Mortars (60-mm, 81-mm, 120-mm)	M60 Machine Gun
M60 D MG	M249 SAW	M16A2Rifle	M21 Sniper Rifle	Pistols (9 mm, Cal .45)	M202A1 Flash
Hand Grenade	Claymore Mine	Mines	Demolition		
Non Standard Weapons					
Pistols: Model 10, P38, BH			SMG, Uzi, M1A1, M12	M45, M50, MP5A3/K, VZ23	Rifles: FNFAL, G3A4, M2, M1
M1200 Shotgun	M1918A2 (BAR)	M1903A4	M79	MG	MG3
MK19 GMG Mod 1		MAG 58	M1919A6		

**Table 1-3
160th Special Operations Aviation Regiment (Airborne)—Active Component and the 1/245th Aviation Battalion-Reserve Component**

M16A2 Rifle	M9 Combat Pistol	MP-5 Submachine gun	M2 HB Machine gun	M60 Machine Gun	M249 SAW
M203 Grenade Launcher	LAW	Hand Grenade	M18A1/A2 Claymore	MH-60 (DAP) Aerial Gunnery	AH-6 Aerial Gunnery
M134 Minigun	Pyrotechnics	MH-60D Door Gunnery			

**Table 1-4
Civil Affairs/Psychological Operations Weapon Systems Training Programs**

M16A2	Pistols: 9-mm, .45 cal	M60 MMG	M203 Grenade Launcher	Pyrotechnics
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Chapter 2 Rangers

Section I Training Programs

2-1. General

This chapter provides weapon standards, training strategies and resource requirements for the 75th Ranger Regiment. The training programs provided are specifically designed for each weapon system within Ranger units. Each program contains a standard and

strategy that outlines the training requirements and includes suggested frequencies of live fire, subcaliber, and use of devices.

2-2. Objective

The objective is to assist Ranger commanders in conducting the training necessary to ensure proficiency of all weapon systems. These training programs are recommended as a method to attain and sustain weapon proficiency throughout the training year.

2-3. Training programs

Training standards are stated at the beginning of each program. The individual training strategy is given next, followed by the squad, crew and/or platoon training strategy. Proficiency is achieved

through the use of dry-fire exercises, blank fire exercises, subcaliber exercises, use of devices, and full caliber live-fire exercises. Ammunition requirements are discussed at the conclusion of each training program. The programs are developed on the assumption that training events will be evenly spaced throughout the training year. Resource availability (such as ranges) may allow a commander more live-fire opportunities of shorter duration. In this case, not all squads, crews, and platoons in the battalion will train at each opportunity.

2-4. Training strategies

The training strategies in this section are based on exercises in current field manuals (FM) and ARTEPs. The specifics of each exercise are not presented here; consult the appropriate manual. Qualification standards and training strategies for some weapon systems have been divided into two categories:

a. Category I applies to all Rangers assigned to the 75th Ranger Regiment, unless they are listed in Category II.

b. Category II applies to Rangers assigned to the Regiment or battalion headquarters, medical platoon, company headquarters section, food service section, support platoon, supply section and the Ranger Training Detachment.

Section II Assigned Weapon Training Strategies

2-5. Pistol, 9-mm

a. *Standard.* All Rangers assigned a 9-mm pistol will qualify every six months. Qualification consists of firing the combat pistol qualification course in accordance with FM 23-35 and firing for record in mission oriented protective posture (MOPP) 4.

b. *Training strategy.* Recommended training strategies and ammunition requirements are provided in table 2-2.

2-6. M16A2/M4A1

a. *Standard.* All Category I and II Rangers assigned an M16A2 or M4A1 will qualify every six months. Qualification consists of firing qualification to standard in accordance with FM 23-9, firing in MOPP 4 and night fire for record.

b. *Training strategy.* Recommended training strategies and ammunition requirements are provided in table 2-3.

2-7. Shotgun, 12-gauge

a. *Standards.* All Rangers assigned a 12-gauge shotgun will qualify every six months.

b. *Training strategy.* Recommended training strategies and ammunition requirements are provided in table 2-4.

2-8. M24 sniper rifle

a. *Standard.* All Rangers designated as snipers will qualify with their assigned M24 Sniper Rifle once per quarter. Qualification consists of firing in accordance with FM 23-10. Iron sights and scope will be zeroed monthly.

b. *Training strategy.* Recommended training strategies and ammunition requirements are provided in table 2-5.

2-9. M203 grenade launcher

a. *Standards.* All Rangers assigned an M203 will qualify every six months. Qualification consists of firing table 8-2, FM 23-31.

b. *Training strategy.* Recommended training strategies and ammunition requirements are provided in table 2-6.

2-10. M249 squad automatic weapon

a. *Standard.* All Rangers assigned a M249 squad automatic weapon (SAW) will qualify every six months. Qualification consists of firing the 10-meter record course and the 10-meter transition course in accordance with FM 23-14.

b. *Training strategy.* Recommended training strategies and ammunition requirements are provided in table 2-7.

2-11. Hand grenade.

a. *Standard.* All Rangers will throw one live, fragmentation hand grenade annually and either negotiate a grenade practice exercise every six months in accordance with FM 23-30 or practice throwing a grenade in conjunction with squad or platoon external evaluations (EXEVAL), live-fire exercise (LFX) or field training exercise (FTX) every six months.

b. *Training strategy.* Recommended training strategies and ammunition requirements are provided in table 2-8.

2-12. AT-4

a. *Standard.* Two Rangers per rifle/weapon squad will qualify with the AT-4 every six months. Qualification consists of firing the subcaliber ammunition (9-mm) in accordance with FM 23-25, Appendix D, Tables III and IV.

b. *Training strategy.* Recommended training strategies and ammunition requirements are provided in table 2-9.

2-13. M240B machine gun

a. *Standard.* All M240B machine gunners and assistant gunners (AG) will qualify every six months. Qualification consists of the 10-meter record course, transition range course (FM 23-67) and firing at night for record.

b. *Training strategy.* Recommended training strategies and ammunition requirements are provided in table 2-10.

2-14. M2 HB machine gun

a. *Standard.* All M2 machine gunners and AGs will qualify every six months. Qualification consists of 10-meter record course, transition record course (FM 23-65) and firing at night for record.

b. *Training strategy.* Recommended training strategies and ammunition requirements are provided in table 2-11.

2-15. MK-19 grenade machine gun

a. *Standard.* All Ranger MK-19 gunners and assistant gunners will qualify every six months. Qualification consists of firing the range card course in accordance with FM 23-27 (table C-5) and firing at night.

b. *Training strategy.* Recommended training strategies and ammunition requirements are provided in table 2-13.

2-16. Mortar, 60-mm

a. *Standard.* All squad leaders, gunners and assistant gunners will pass the mortar gunner's exam (FM 23-90) every six months and all mortar sections will receive a satisfactory rating in accordance with ARTEP standards every six months. Each crew/section/platoon, individually or as part of a larger unit, will conduct one LFX every two months.

b. *Training strategy.* Recommended training strategies and ammunition requirements are provided in table 2-13.

2-17. Forward observer

a. *Standard.* All assigned Ranger forward observer (FO) Teams must adjust the three missions identified in table 2-14 in accordance with Regimental Training Circular (RTC) 350-1 every six months.

b. *Training strategy.* Recommended training strategies and ammunition requirements are provided in table 2-14.

2-18. Pyrotechnics

Use table 2-15 for annual pyrotechnic requirements.

2-19. M18A1/A2 Claymore mine

a. *Standard.* All Rangers must emplace, arm, and disarm one inert Claymore Mine (FM 23-23) every six months. Additionally, each rifle/weapon squad will incorporate three live Claymore Mines in conjunction with an LFX.

b. *Training strategy.* Recommended training strategies and ammunition requirements are provided in table 2-16.

2-20. Mines

a. The annual ammunition requirements for demolition systems are given in table 2-17.

b. Antitank Mine Standard.

(1) One-hundred percent of the Ranger squad members must perform the individual mine warfare tasks every six months. Training will be accomplished with inert devices. The individual mine warfare tasks include the following:

- 051-192-1006 Install/Remove the M15 Antitank Mine
- 051-192-1007 Install/Remove the M19 Antitank Mine
- 051-192-1009 Install/Remove the M21 Antitank Mine
- 051-192-1014 Install/Remove US Antihandling Devices

(2) All Ranger squads/platoons must perform the unit mine warfare tasks every six months. Training will be accomplished with inert devices. The unit mine warfare tasks include the following:

- 5-3-0101 Install/Recover or Transfer a Hasty Protective Minefield
- 5-3-0106 Conduct Route Minesweep Operations
- 5-3-0108 Emplace a Nonstandard Pattern Minefield
- 5-3-0105 Clear a Vehicle lane through a Minefield

c. Demolition standard.

(1) Each Ranger rifle squad must have a basic demolition team that performs the basic demolition and explosive breaching charge tasks live in accordance with RTC 350-1 every six months.

(a) The following are the basic demolition tasks:

- Task 1: Construct and detonate a non-electric (initiation) demolition charge.
- Task 2: Construct and detonate an electric (initiation) demolition charge.
- Task 3: Construct and detonate a shock tube (initiation) demolition charge.
- Task 4: Construct an electric firing circuit (common series and leapfrog series) to detonate two or more demolition charges.
- Task 5: Construct and detonate explosives using detonating cord.
- Task 6: Construct and detonate a detonating cord line main system and ring main system.
- Task 7: Breach a wire obstacle with a Bangalore torpedo.
- Task 8: Prepare and detonate an expedient platter charge.
- Task 9: Prepare and detonate an expedient grape-shot charge.

- Task 10: Construct and detonate a field expedient Bangalore torpedo (Claymore, picket, or pole method).
- Task 11: Construct a nonelectric dual firing system.
- Task 12: Construct and detonate an earmuff charge.
- Task 13: Construct and detonate three or more M18A1 Claymore Mines simultaneously.
- Task 14: Construct and detonate a saddle charge.

(b) The following are the explosive breaching charge tasks:

- Task 1: Construct and detonate the Brashier breach.
- Task 2: Construct an AT&T charge.
- Task 3: Construct a flexible linear charge.
- Task 4: Construct a flexible linear window charge.
- Task 5: Construct a silhouette charge.
- Task 6: Construct a rubber strip charge.
- Task 7: Construct a general charge.
- Task 8: Construct a chain-link ladder charge.
- Task 9: Construct a doughnut charge.
- Task 10: Construct a wall-breach charge.
- Task 11: Construct a shooting hole charge.

(2) Each Ranger rifle platoon must have an advanced demolition team that performs the advanced demolition tasks, in accordance with RTC 350-1, every 12 months. The following are the advanced demolition tasks:

- Task 1: Using the standard formula for an untamped external charge, compute and detonate a TNT charge.
- Task 2: Emplace and detonate a 40-pound cratering charge electrically and nonelectrically using detonation cord and dual priming below ground.
- Task 3: Emplace two shaped charges; one 15-pound bore holing to insert a cratering charge, and one 40-pound as a command detonated antitank mine.
- Task 4: Compute a charge for a structural steel beam target and detonate the charge.
- Task 5: Install M147 time-delayed firing device (TDFD) on standard military explosives.
- Task 6: Construct and employ a fireball.
- Task 7: Prepare and detonate a linear shaped charge.
- Task 8: Prepare and detonate a field expedient shaped charge.

**Table 2-1
Regimental Training Requirements**

Task	Remarks
Familiarization	Required to familiarize Rangers on the capabilities of weapons and ammunition.
Zero/Field Fire Qualification	Regiment is required to qualify every six months to maintain readiness.
Night Fire/NBC Fire	Qualification includes those activities required for qualification set forth in the FM appropriate to the weapon system.
Squad/Platoon LFX	Each Ranger battalion is required to conduct an LFX every six weeks.
CALFEX	Each Ranger battalion participates in a minimum of two CALFEXs per year. CALFEXs are extensive live-fire exercises that integrate all weapon systems into the operation.
JOTC/JRTC/NTC	Each Ranger battalion participates in one JOTC, JRTC, or NTC rotation at least biennially.
Major Exercise	Each Ranger battalion participates in one major exercise annually (for example, Bright Star, Cobra Gold).

**Table 2-1
Regimental Training Requirements—Continued**

Task	Remarks
Joint Readiness Exercise (JRX)	JRXs involve one or more Ranger battalion and aviation assets from SOAR and 16th SOW. JRXs are conducted four times a year, with one battalion conducting two, and two battalions conducting one each.
Bilateral Training (BILAT)	This training is conducted at a smaller scale than a JRX. BILATs are used to enhance the special operations skills of both Rangers and the supporting air unit. BILATs are conducted eight times a year, with one battalion conducting four, and two battalions conducting two each.
Advance MOUT Training (AMT)	AMT is the Regiment's MOUT training program. Each Ranger battalion will participate in an intensive MOUT training period twice a year (includes a semi-annual "Train the Trainer" requirement). This training is conducted by each Rifle company.
Ranger Ready Force (RRF)	RRF-1 assumption occurs four times a year. One Ranger battalion will assume RRF-1 two times, while two Ranger battalions will assume RRF-1 one time each.
EDRE	The Regimental EDRE program requires at least one RRF-1 rifle company be evaluated per RRF-1 cycle.

**Table 2-2
Annual Ammunition Requirement and Training Strategy for the 9-mm Pistol**

Event	Freq	Rounds Required
DODIC		A363
Familiarization	2	40
Record/qualification	2	40
Advance MOUT Training (AMT)	1	40
RRF Preparation	1.33	14
Total Rounds Required		219

**Table 2-3
Annual Ammunition Requirement and Training Strategy for the M16A2/M4A1 (Cat I &II)**

Event	Rounds Required				
	Freq		Ball	Tracer	Blank
DODIC	CAT I	CAT II	A059	A063	A080
Familiarization	2	2			
Zero	2	2	18		
Field Fire	2	2	40		
Record Qualification	2	2	40		
NBC Practice/Field Fire	2	2	20		
NBC Record Fire	2	2	20		
Night Practice Fire	2	2	20	10	
Night Record Fire	2	2	20	10	
Squad/Platoon FTX	2				120
Squad/Platoon LFX	6		210	20	
CALFEX	2		210	20	
Company FTX/DFT	2		210		120
Battalion FTX	1				120
EXEVAL	1				120

**Table 2-3
Annual Ammunition Requirement and Training Strategy for the M16A2/M4A1 (Cat I &II)—Continued**

Event	Freq	Rounds Required			
		Ball	Tracer	Blank	
DODIC	CAT I	CAT II	A059	A063	A080
Major Exercise	1				210
JRX	1.33				120
BILAT	2.67	2.67			120
Advance MOUT Training (AMT)	1		210		
RRF Preparation	1.33		18		
EDRE	1		210		120
Total Rounds Required	CAT I		2900	200	1530
	CAT II		356	40	320

Notes:

¹ This includes M16A1/M4A1 with M203.

**Table 2-4
Annual Ammunition Requirement and Training Strategy for the 12 Gauge Shotgun (CAT I)**

Event	Freq	Rounds Required
		00 Buckshot
DODIC		A011
Familiarization	3	10
Squad/Platoon LFX	6	25
CALFEX	2	10
Major Exercise	1	10
JRX	1.33	10
Advance MOUT Training (AMT)	1	25
RRF Preparation	1.33	10
EDRE	1	10
Total Rounds Required		272

**Table 2-5
Annual Ammunition Requirement and Strategy for the M24 Sniper Rifle (CAT I)**

Event	Freq	Rounds Required	
		7.62-mm Match	.50 Cal
DODIC		A136	A531
Sustainment	2		40
Zero	12	27	
Familiarization	12	6	
Zero	12	27	
Record/Qualification	4	60	
Night Record Fire	4	15	
Squad/Platoon LFX	6	86	
CALFEX	2	21	
Major Exercise	1	21	
JRX	1.33	21	

**Table 2-5
Annual Ammunition Requirement and Strategy for the M24 Sniper Rifle (CAT I)—Continued**

Event	Freq	Rounds Required	
		7.62-mm Match	.50 Cal
DODIC		A136	A531
AMT	1	86	
RRF Preparation	1.33	20	
Total Rounds Required		1416	80

**Table 2-6
Annual Ammunition Requirement and Training Strategy for the M203 Grenade Launcher (CAT 1)**

Event	FREQ	HE	Rounds Required	
			T	WSP
DODIC		B546	B519	B535
Zero	2		6	
Record/Qualification	2		12	
Night Practice Fire	2	3		
Squad/Platoon LFX	6		18	4
CALFEX	2	4	18	4
Company FTX/DFT	2		18	4
EXEVAL	1		18	4
Major Exercise	1		18	4
JRX	1.33		18	4
RRF Preparation	1.33	3		
EDRE	1		18	
Total Rounds Required		18	294	53

**Table 2-7
Annual Ammunition Requirement and Training Strategy for the M249 SAW**

Event	FREQ	BALL	Rounds Required	
			MIX	BLANK
DODIC		A062	A064	A075
10-m Zero/Practice ¹	2	57		
10-m Practice Qual ¹	2	39		
10-m Qual ¹	2	42		
Practice Transition ¹	2	9	195	
Trans Qualification ¹	2		195	
Night/Zero/Rec Fire ²	2	51	195	
Squad/Platoon FTX	2			800
Squad / Platoon LFX	6		800	
CALFEX	2		800	
Company FTX/DFT	2		800	800
Battalion FTX	1			1000
EXEVAL	1			800
Major Exercise	1			800

**Table 2-7
Annual Ammunition Requirement and Training Strategy for the M249 SAW—Continued**

Event	FREQ	Rounds Required		
		BALL	MIX	BLANK
DODIC		A062	A064	A075
JRX	1.33			800
BILAT	2.67			800
RRF Preparation	1.33		40	
EDRE	1		800	400
Total Rounds Required		396	10023	9400

Notes:

¹ Practice and Qualify in accordance with FM 23-14.

² Night zero and record fire in accordance with FM 23-14.

**Table 2-8
Annual Ammunition Requirement and Training Strategy for Hand Grenades**

Event	FREQ	FRAG	FUZE	CONC
DODIC		G881	G878	G911
Live Grenade Throw	1	1	3	
Record / Qualification	2		4	
Squad/Platoon LFX	6	1	1	1
CALFEX	2	1		
Advance MOUT Training	1	3	4	
Total Rounds Required		12	21	6

**Table 2-9
Annual Ammunition Requirement and Training Strategy for the AT-4 (CAT I)**

Event	Freq	9 mm	ATWESS	HEAT
DODIC		A358	L367	C995
Field Fire ¹	2	24		
Record/Qualification ²	2	14		
Squad/Platoon FTX	2		5	
Squad/Platoon LFX	6			2
CALFEX	2		5	1
Company FTX/DFT	1			1
Battalion FTX	1			1
EXEVAL	1		5	
RRF Preparation	1.33	12		
Total Rounds Required³		92	25	16

Notes:

¹ Qualification Table I (12 rounds) and Table II (12 Rounds)

² Qualification Table III (8 Rounds) and Table IV (6 Rounds)

³ There are 48 rifle/weapon squads per Ranger Battalion; therefore, 96 Rangers must qualify with the AT-4 semiannually.

**Table 2-10
Annual Ammunition Requirement and Training Strategy for the M240B**

Event	Freq	Rounds Required		
		Ball	Mix	Blank
DODIC		A143	A131	A111
Preliminary Marksmanship Gunner/AG/AB	2			
10 Meter Zero/Practice	2	351 ¹		
10 Meter Record	2	357 ¹		
Transition Zero/Practice	2		546 ¹	
Transition Record	2		462 ¹	
Night/Zero/Prac/Rec Fire	2		588 ¹	
Squad/Platoon FTX	2		600 ²	400
Squad/Platoon LFX	6		800	600
CALFEX	2		600 ²	400
Company FTX/DFT	2		600 ²	400
Battalion FTX	2			600
EXEVAL	1		800 ²	400
Major Exercise	1		600 ²	400
JRX	1.33			400
BILAT	2.67			400
RRF Preparation (G/AG/AB)	1.33	54		
EDRE	1		800	400
Total Rounds Required		1488	13792	10000

Notes:

¹ Gunner, Assistant Gunner, and Ammunition Bearer will qualify on all tables.

² Ranger live-fire exercises will consist of a day blank-fire rehearsal, a day live fire, a night blank-fire rehearsal, and a night live fire, all of which must be executed to standard.

**Table 2-11
Annual Ammunition Requirement and Training Strategy for the M2 HB MG (CAT 1)**

Event	Freq	Rounds Required		
		Ball	Mix	Blank
DODIC		A555	A557	A598
10-Meter Zero/Practice	2	234 ²		
10-Meter Record Fire	2	238 ²		
Transition Zero/Practice	2		364 ²	
Transition Record	2		308 ²	
NBC Zero/Record	2		364 ²	
Night Zero/Practice	2		360 ²	
Night Record	2		308 ²	
Squad/Platoon FTX	2			400
Squad/Platoon LFX	2		1200 ³	200
CALFEX	1		400 ³	100
Battalion FTX/DFT	1			200
Major Exercise	1			200
JRX	1.33			200

Table 2-11
Annual Ammunition Requirement and Training Strategy for the M2 HB MG (CAT 1)—Continued

Event	Freq	Ball	Rounds Required	
			Mix	Blank
DODIC		A555	A557	A598
BILAT	2.67		200 ³	100
RRF Preparation (G/AG)	1.33	234		
Total Rounds Required		1255	6742	2233

Notes:

¹ NBC and Night Record fires are required for qualification in accordance with FM 23-65.

² DA PAM 350-39 requires that both the Gunner and AG qualify semi-annually.

³ Ranger live-fire exercises will consist of a day blank fire rehearsal, a day live fire, a night blank fire rehearsal, and a night live fire, all of which must be executed to standard.

Table 2-12
Annual Ammunition Requirement and Training Strategy for the MK 19 GMG

Event	Freq	TP	Rounds Required	
			HE	HEDP
DODIC		B584	B571	B542
Familiarization				18
Primary Marksmanship Training	4			
Gunnery Skills Test	4			
Table 1 (Instructional Fire Ex)	2	26 ¹		
Table 2 (Dismount Range Card Ex)	2	42 ¹		
Table 3 (Mounted Combat Ex)	2	26 ¹		
Table 4 (Night Fire Ex)	2	22 ¹		
Table 5 (Dismount Range Card Qual)	2	42 ¹		
Table 6 (Mounted Combat Qual)	2	26 ¹		
Table 7 (Night Fire Qual)	2	22 ¹		
Moving Target Familiarization	2	32		
Assistant Gunner Qual (All tables)	2	206 ²		
Crew Familiarization (5 men)	2		96	
Squad/Platoon LFX	2	60		
CALFEX	2	60		
EXEVAL	1		96 ³	
Major Exercise	1		96 ³	
JRX	1.33			
BILAT ⁴	2.67			
RRF Preparation (G/AG)	1.33	5		
EDRE	1		96 ³	
Total Rounds Required		1135	480	18

Notes:

¹ Instruction and Record Fire in accordance with FM 23-27 (Tables 1-7)

² Assistant gunner qualifies with same tables as the gunner.

³ HE fired on LFXs (2 cans of 48 rounds per gun)

⁴ Bilat HE deleted.

**Table 2-13
Annual Ammunition Requirement and Training Strategy for the 60-mm Mortar**

Event	Freq	Rounds Required			
		HE	WP	SRTR	Illum
DODIC		B642	B630	B645	B627
Crew drill / FDC Training	12				
Gunner Examination	2				
Qualification /Sustainment LFX ¹	2	18	5		10 ²
CALFEX	2	18	5		7
EXEVAL	3	39	5		7
MORTEP ³	1	30	5		7
EDRE	1	18	5		7
SRTR	1			49	
Total Rounds Required		237	45	49	69

Notes:

¹ Qualification/Sustainment LFXs are required to validate crew drill and to ensure RTC 350-1 requirement of one LFX quarterly is met.

² Increases in Illum due to coordinated illumination missions.

³ Mortar ARTEP (MORTEP) is an annual requirement.

**Table 2-14
Annual Artillery Ammunition Requirement and Training Strategy for CMF 13F Ranger Fire Support Personnel¹**

Event	Freq	Rounds Required			
		HE	WP	SMK	ILLUM
DODIC		C443	C454	C452	C449
TSFO	12				
Low Angle Adjust	2	9			
Immediate Suppression	2	6			
Coordinated Illumination	2	6			20
Build & Maintain a Smoke Screen	2		2	6	
SEAD	2	9			1
Danger Close ²	2	6			
Total Rounds Required		72	4	12	42

Notes:

¹ Thirty-two CMF 13F Rangers are assigned to each of the three Ranger Battalions and six CMF 13F Rangers are assigned to the Regimental Fire Support Element. All assigned 13F Rangers will accomplish the tasks above.

² A RTC 350-1 Requirement.

**Table 2-15
Pyrotechnics Requirements**

DODIC	NOMENCLATURE	2		6		2		1		1		4		4	
		SQD PLT FTX	SQD PLT FTX	SQD PLT FTX	SQD PLT FTX	CO/BN FTX DFT	CO/BN FTX DFT	CO/BN FTX DFT	CO/BN FTX DFT	JRX BILAT	JRX BILAT	JRX BILAT	JRX BILAT	BN TOT	RHQ TOT
G930	GREN SMK HC	30	30	30	30	25	25	25	25	25	25	25	25	450	50
G940	GREN SMK GRN	20	15	15	15	15	15	15	15	15	15	15	15	250	50
G945	GREN SMK YEL	20	15	15	15	15	15	15	15	15	15	15	15	250	50
G950	GERN SMK RED	2	2	2	2	2	2	2	2	2	2	2	2	32	8

**Table 2-15
Pyrotechnics Requirements—Continued**

		Freq	2	6	2	1	1	4	4		
DODIC	NOMENCLATURE	SQD PLT FTX	SQD PLT FTX	CALFEX	CO/BN FTX DFT	EXEVAL	JRX BILAT	AMT	BN TOT	RHQ TOT	
G955	GREN SMK VIOL	15	15	10	10	10	10		200	50	
G963	GREN SMK CS	2	2	0	0	2	1		22	10	
K768	RIOT CON AGENT	0	0	0	0	5	0		5	0	
K867	SMK POT FIT	1	1	2	1	1	2	2	30	8	
L116	KIT FLR RED	20	20	20	20	20	20		320	30	
L117	KIT FLR MIX	20	20	20	20	20	20		320	30	
L275	SMK MARINE	25	25	25	25	25	25		400	10	
L305	SIG ILL GRN PARA	25	25	25	25	25	25		400	50	
L306	SIG ILL RED PARA	25	25	25	25	25	25		400	50	
L307	SIG ILL WHT PARA	25	25	25	25	25	25		400	50	
L311	SIG ILL RED STAR	25	25	25	25	25	25		400	50	
L312	SIG ILL WHT STAR	25	25	25	25	25	25		400	50	
L314	SIG ILL GRN STAR	25	25	25	25	25	25		400	50	
L494	SIM PROJ GND BURST	50	50	50	50	50	50		800	20	
L495	FLR SURF TRIP	25	25	25	25	25	25		400	20	
L596	SIM ARTY FLSH	25	25	25	25	25	25	25	500	15	
L598	SIM BOOBY TRAP FLSH	25	25	25	25	25	25	25	500	15	
L599	SIM BOOBY TRAP ILL	20	20	20	20	20	20		320	15	
L600	SIM BOOBY TRAP WHST	15	15	15	15	15	15		240	60	
L601	SIM HAND GRN	50	50	50	50	50	50	50	1000	20	
L630	SIM PROJECT AIR BURST	25	25	25	25	25	25		400	10	

**Table 2-16
Annual Ammunition Requirement and Training Strategy for the M18A1 Claymore Mine**

		Rounds Required	
Event	Freq	Inert	M18A1
DODIC		K139	K143
Familiarization	1	X	
Squad/Platoon FTX	2	X	
Squad/Platoon LFX	6		3 ¹
CALFEX	2		1 ¹
Company FTX/DFT	1		3 ¹
Battalion FTX	3	X	
EXEVAL	3	X	3 ¹
JRX	1.33		1 ¹
Total Rounds Required			Sqd Bn 36¹ 1188²

Notes:

¹ Mines per squad (x 33 squads)

² Rounds required per battalion

Table 2-17
Annual Ammunition Requirement for Ranger Demolition Teams

Item	DODIC	Rounds per team	Munitions	
			Freq	Annual Requirement
Shape Charge (15 or 40 lb)	M420		1	9
Cratering Charge (40 lb)	M039		1	27
M1A1 Firing Device	ML03	2	1	54
M5 Firing Device	ML27	2	1	54
M1 Firing Device	M630	2	1	54
Grenade WP	G935	2	1	54
Bangalore Torpedo ²	M028	2	1	27
Demolitions TNT (1/4 lb) ³	M030	34	1	918
Demolitions C4 (1 1/4 lb) ³	M023	67	1	1809
Detonating Cord (ft)	M456	336	1.5 ⁴	13608
Time or Safety Fuse (ft)	M670	160	1.5 ⁴	6480
Fuse Ignitor ⁵	M766	28	1	831 ⁵
Electric Blasting Cap	M130	62	1	1674
Nonelectric Blasting Cap	M131	42	1	1134
Igniter, Time Blasting Fuze ⁵	MN08	28	1	831
Holder, Cap Blasting and Shock Tube	ML45		1	300
Cap Blasting, Nonelectric, 30 ft (ea) Shock Tube	ML47	8	1	216
Cap Blasting, Nonelectric, 500 ft (ea) Shock Tube	MN02	8	1	216
Cap Blasting, Nonelectric, Delay 7.5 ft (ea)	MN06	8	1	216

Notes:

¹ Each squad will have four members for a basic demolition team. Each Battalion will have 27 basic demolition teams.

² Five sections of the Bangalore kit will be used for each iteration.

³ C4 and TNT may be substituted for each other, on a pound-for-pound basis.

⁴ Increased frequency to account for demolition team sustainment training conducted during LFXs as well as advanced MOUT training (AMT).

⁵ Additional fuse ignitors (10 percent) are required for rehearsals and test burns.

Chapter 3 Special Forces—Active and Reserve Components

Section I Training Programs

3-1. General

This chapter provides standards, training strategies and resource requirements for weapons to be used by Active Component (AC) and Reserve Component (RC) Special Forces units. The training programs provided are specifically designed for each weapon system within Special Forces units. Each program contains a strategy and standard that outlines the training resources and includes suggested frequencies of live fire, subcaliber and use of devices.

3-2. Objective

The objective is to assist the commanders in attaining and sustaining acceptable levels of weapons and tactical proficiency in support of Special Forces missions. The training programs provide a method to attain and sustain weapon proficiency throughout the training year.

3-3. Training programs

Special Forces units are divided into two categories for planning and resourcing. Category I consists of operational detachments (OD)A, (OD)B, Support Operational Team A (SOTA), Chemical Reconnaissance Detachments (CRD) and Tactical Air Control Party (TACP).

Category II consists of Group Headquarters, Headquarters and Headquarters Company, Battalion support assets.

3-4. Training strategies

The resource strategies in this chapter are based on exercises in FMs, STPs, MTPs, and USASFC(A) Reg 350-1. All Category I personnel are required to participate in at least three (OD) LFXs annually (AC) or 36 months (RC). This chapter addresses the resourcing of the LFXs; however, the specifics of each LFX will not be addressed in this manual. For specific information, consult the appropriate training publications.

Section II Assigned Weapon Training Strategies

3-5. TOW missile

a. *Standard (Category I)*. MOS 18B/C assigned to an ODA and ODB will familiarize and conduct instructional fire in accordance with FM 23-34. MOS 18B/C will conduct missile live-fire training within 12 months (AC) or 36 months (RC). Missile live-fire training is to be conducted at company level or higher to maximize resources.

b. *Standard (Category II)*. No training requirement.

c. *Training strategy*. Recommended training strategy and ammunition resourcing are given in table 3-1.

3-6. Dragon

a. *Standard (Category I)*. MOS 18B/C assigned to an ODA and ODB will familiarize and conduct instructional fire in accordance with FM 23-14 within 12 months (AC) or 36 months (RC). MOS 18B/C will witness the firing and tracking of a live missile within 12 months (AC) or 36 months (RC). Missile live-fire training will be conducted at company level or higher to maximize resources.

b. *Standard (Category II)*. No training requirement.

c. *Training strategy*. Recommended training strategy and ammunition resourcing are given in table 3-2.

3-7. Recoilless rifles (RCRL), 106-mm

a. *Standard (Category I)*. MOS 18B assigned to an ODA and ODB will conduct instructional fire on RCRL 106-mm within 12 months (AC) or 36 months (RC).

b. *Standard (Category II)*. No training required.

c. *Training strategy*. Recommended training strategy and ammunition resourcing are given in table 3-3.

3-8. AT-4

a. *Standard (Category I)*. MOS 18B/C assigned to an ODA and ODB will conduct instructional fire within 12 months (AC) or 36 months (RC). Missile live-fire training will be conducted at company level, or higher, to maximize resources.

b. *Standard (Category II)*. No training requirement.

c. *Training strategy*. Recommended training strategy and ammunition resourcing are given in table 3-4.

3-9. LAW

a. *Standard (Category I)*.

(1) MOS 18B/C assigned to an ODA and ODB will conduct instructional fire within 12 months (AC) or 36 months (RC).

(2) All ODA, ODB SOTA, SOTB, and CRD detachments will conduct instructional fire and participate in 3 LFXs within 12 months (AC) or 36 months (RC).

b. *Standard (Category II)*. No training requirement.

c. *Training strategy*. Recommended training strategy and ammunition resourcing are given in table 3-5.

3-10. Mortars 60-mm, 81-mm, 120-mm

a. *Standard (Category I)*. All personnel assigned to an ODA and ODB will conduct instructional fire within 12 months (AC) or 36 months (RC).

b. *Standard (Category II)*. No training requirement.

c. *Training strategy*. Recommended training strategy and ammunition resourcing are given in tables 3-6, 3-7, 3-8.

3-11. M2 HB Machine Gun

a. *Standard (Category I)*.

(1) MOS 18B assigned to an ODA and ODB will conduct instructional fire within 12 months (AC) or 36 months (RC).

(2) All assigned gunners and assistant gunners as part of a mounted ODA will qualify every 6 months (AC) in accordance with FM 23-65. All assigned gunners will conduct at least 3 LFXs (as part of a mounted ODA) within 12 months.

b. *Standard (Category II)*. No training requirement.

c. *Training strategy*. Recommended training strategy and ammunition resourcing are given in table 3-9.

3-12. M60 Machine Gun

a. *Standard (Category I)*. All personnel will conduct instructional firing in accordance with FM 23-67 within 12 months (AC) or 36 months (RC).

b. *Standard (Category II)*. All assigned personnel will conduct instructional fire in accordance with FM 23-67 within 12 months (AC) or 36 months (RC).

c. *Training strategy*. Recommended training strategies and ammunition resourcing are given table 3-10.

3-13. M249 Squad Automatic Weapon

a. *Standard (Category I)*.

(1) MOS 18B/C assigned to an ODA or ODB will qualify in accordance with FM 23-14 within 6 months (AC) or 12 months (RC). Each ODA will conduct at least 3 LFXs within 12 months (AC) or 36 months (RC).

(2) All non-assigned personnel will conduct instructional firing within 12 months (AC) and (RC).

b. *Standard (Category II)*.

(1) All assigned gunners and assistant gunners will qualify in accordance with FM 23-14 within 12 months (AC) and (RC)

(2) All non-assigned personnel will conduct instructional firing within 12 months (AC) and (RC).

c. *Training strategy*. Recommended training strategies and ammunition resourcing are given table 3-11.

3-14. M16A2/M4 rifle

a. *Standard (Category I)*. All personnel assigned the M16A2 Rifle/M4 Carbine will qualify within 6 months (AC) and 12 months (RC) in accordance with FM 23-9. All personnel will conduct at least 3 LFXs within 12 months (AC) or 36 months (RC).

b. *Standard (Category II)*. All personnel assigned the M16A2/M4 Carbine will qualify within 6 months (AC) and 12 months (RC), in accordance with FM 23-9.

c. *Training strategy*. Recommended training strategy and ammunition resourcing are given in table 3-12.

3-15. M24 sniper rifle

a. *Standard (Category I)*. All designated snipers will conduct sustainment training, familiarization fire and qualify in accordance with table 3-13.

b. *Standard (Category II)*. No training requirement.

c. *Training strategy*. Recommended training strategy and ammunition resourcing are given in table 3-13.

3-16. M203 grenade launcher

a. *Standard (Category I)*.

(1) All assigned gunners will qualify within 6 months (AC) and 12 months (RC) in accordance with FM 23-31. All assigned gunners will conduct at least 3 LFXs within 12 months (AC) or 36 months (RC).

(2) All non-assigned gunners will conduct instructional fire within 12 months (AC) or 36 months (RC) in accordance with FM 23-31.

b. *Standard (Category II)*

(1) All assigned gunners will qualify within 6 months (AC) and 12 months (RC) in accordance with FM 23-31.

(2) All non assigned gunners will conduct instructional fire within 12 months (AC) or 36 months (RC) in accordance with FM 23-31.

c. *Training strategy*. Recommended training strategy and ammunition resourcing are given in table 3-14.

3-17. Pistols, 9-mm/.45 cal/.38 cal

a. *Standard (Category I)*. All personnel assigned a weapon will qualify within 6 months (AC) and 12 months (RC) in accordance with FM 23-35.

b. *Standard (Category II)*.

(1) All personnel assigned a weapon will qualify within 6 months (AC) and 12 months (RC) in accordance with FM 23-35.

(2) Non-assigned personnel will conduct instructional fire within 12 months (AC) or 36 months (RC).

c. *Training strategy*. Recommended training strategy and ammunition resourcing are given in table 3-15.

3-18. Hand grenade

a. *Standard (Category I)*. All MOS 18 Series, SOTA, SOTB and CRD personnel will throw a live fragmentation hand grenade within 12 months (AC) and (RC). All operational detachments will conduct at least 3 LFXs within 12 months (AC) or 36 months (RC).

b. *Standard (Category II)*. All personnel will train on the instructional practice course within 12 months (AC) and (RC).

c. *Training strategy.* Recommended training strategy and ammunition resourcing are given in table 3-16.

3-19. M18A1/A2 Claymore mine

a. *Standard (Category I).*

(1) All 18-series personnel assigned to an ODA or ODB will place and detonate one live M18A1/A2 mine within 12 months (AC) or 36 months (RC).

(2) All other personnel will arm and disarm one inert Claymore mine within 12 months (AC) and (RC).

b. *Standard (Category II).* All personnel will arm and disarm one inert Claymore mine within 12 months (AC) and (RC).

c. *Training strategy.* Recommended training strategy and ammunition resourcing are given in table 3-17 and 3-25.

3-20. MK 19

a. *Standard (Category I).*

(1) All personnel will conduct instructional fire within 12 months (AC) or 36 months (RC).

(2) All assigned gunners and assistant gunners will qualify every 6 months (AC); no requirement for (RC) in accordance with FM 23-27. All assigned gunners will conduct at least 3 LFXs as part of a mounted detachment within 12 months (AC); no requirement for (RC).

b. *Standard (Category II).* All assigned gunners and assistant gunners will qualify within 12 months (AC) or 36 months (RC) in accordance with FM 23-27.

c. *Training strategy.* Recommended training strategy and ammunition resourcing are given in table 3-18.

Section III

Nonstandard Weapon Training Strategies

3-21. Pistols/revolvers

a. *Standard (Category I).* MOS 18-Series personnel will load, fire, reduce a stoppage, and clear the weapons listed in table 3-19 in accordance with STP 31-18-SM-TG within 12 months (AC) or 36 months (RC).

b. *Standard (Category II).* No training requirement.

c. *Training strategy.* Recommended training strategies and ammunition requirements are given in table 3-19.

d. *Weapon Certification (Foreign).* All foreign weapons must be certified for firing every 12 months. Ammunition required for certification are given in table 3-19.

3-22. Submachine guns

a. *Standard (Category I).* MOS 18 Series personnel will load, fire, reduce a stoppage, and clear the weapons listed in table 3-20 in accordance with STP 31-18-SM-TG within 12 months (AC) or 36 months (RC).

b. *Standard (Category II).* No training requirement.

c. *Training strategy.* Recommended training strategies and ammunition requirements are given in table 3-20.

d. *Weapon certification (foreign).* All foreign weapons must be certified for firing every 12 months. Ammunition required for certification are given in table 3-20.

3-23. Rifles

a. *Standard (Category I).* MOS 18-Series personnel will load, fire, reduce a stoppage, and clear the weapons listed in table 3-21 in accordance with STP 31-18-SM-TG within 12 months (AC) or 36 months (RC).

b. *Standard (Category II).* No training requirement.

c. *Training strategy.* Recommended training strategies and ammunition requirements are given in table 3-21.

d. *Weapon certification (foreign).* All foreign weapons must be certified for firing every 12 months. Ammunition required for certification are given in table 3-21.

3-24. Machine guns

a. *Standard (Category I).* MOS 18-series personnel will load,

fire, reduce a stoppage, and clear the weapons listed in table 3-21 in accordance with STP 31-18-SM-TG within 12 months (AC) or 36 months (RC).

b. *Standard (Category II).* No training requirement.

c. *Training strategy.* Recommended training strategies and ammunition requirements are given in table 3-22.

d. *Weapon certification (foreign).* All foreign weapons must be certified for firing every 12 months. Ammunition required for certification are given in table 3-22.

3-25. Pyrotechnics

Pyrotechnics to be used during battalion training is in table 3-23. Annual resourcing requirements for RC units will be .5 x column value per each RC unit.

3-26. Combat training centers (CTC) rotation

CTC ammunition requirements for units are listed in table 3-24 and 3-24a.

3-27. Engineer weapon systems

a. *General.* This section provides training standards, strategies, and resource requirements to conduct training with demolition and mines. Personnel in an ODA are divided into the following groups:

(1) All ODA members.

(2) MOS 18C personnel in an ODA.

b. *Training programs.* Training strategies are established for each task to be accomplished by an ODA. The standards are supported by training strategies that, if followed, will enable the commander to attain and sustain the demolition proficiency of his soldiers. Resources are applied to the standards and strategies as written. The commander has the flexibility to modify both the training strategy and use of resources as long as the training standards are met.

c. *Munitions.* The quantities of munitions required annually is given in table 3-25, for one iteration of the task to be accomplished by personnel of the ODA are summarized in subparagraph e.

d. *Programs for ODA members, Group I.*

(1) *Training standards.* Training standards are given below. Recommended training strategies for all tasks are given in table 3-25.

(2) *Demolition Standard.*

(a) All ODA personnel will perform each task listed below and prime live demolition for live fire to FM 5-250 standards and within STP 31-18-SM-TG and STP 31-18C3/4-SM-TG standards within 12 months.

- 051-193-1002—Construct a Nonelectric Demolition Firing system.
- 051-193-1004—Construct an Electric Demolition firing system.
- 051-193-1009—Construct a Detonating Cord Firing System.
- 051-193-1011—Install a Dual Firing System.
- 051-193-3038—Install Booby Traps.
- 051-193-3050—Calculate and Designate Placement of Timber Cutting Charges.
- 051-193-3051—Calculate and Designate Placement of Steel Cutting Charges.
- 331-922-0502—Employ the M2A1 8-Second Delay Percussion Detonator.
- 331-922-0503—Employ the M2A1 15-Second Delay Percussion Detonator.
- 331-922-0504—Employ the M1 Delay Firing Device (Time Pencil).
- 331-922-0505—Employ Civilian Explosives.
- 051-193-2028—Neutralize Obstacles.
- 051-193-3052—Calculate and Designate Placement of Breaching Charges.
- 051-193-3053—Calculate Explosives and Designate Placement of Cratering Charges.
- 331-922-0009—Prepare and Employ a Demolition Ambush.
- 331-922-0010—Prepare and Employ Expedient Munitions.
- 331-922-0500—Employ M10 Universal Explosive Destructor.

- 331-922-0501—Employ M19 Explosive Destructor
- 331-922-0506—Construct and Employ Expedient Charges (shape, dust initiator, platter, ammonium nitrate satchel, cratering and grapeshot).

(3) *Antitank, antipersonnel mine standard.* All ODA personnel will perform each task listed below and witness the priming and detonating of a live mine in accordance with FM 20-32 standards and within STP 31-18C3/4-SM-TG within 12 months.

Note. Resources are given in table 3-25.

- 051-192-1002—Install/Remove the M16A1 Bounding Fragmentation Mine. (Korea only)
- 051-192-1026—Install/Remove the M2 series (M2A4) Bounding AP Mine
- 051-192-1004—Install/Remove the M25 Blast AP Mine
- 331-922-0507—Install/Remove the M3 Blast AP Mine.
- 051-192-1006—Install/Remove the M15 AT Mine.
- 051-192-1007—Install/Remove the M19 AT Mine.
- 051-192-1008—Install/Remove the M21 AT Mine.
- 051-192-1028—Install/Disarm and Package the M24 AT Mine.
- 051-192-2009—Install/Remove the M1 One-Gallon Chemical Mine with an Electric Detonating Assembly.
- 051-192-2010—Install/Remove the M23 AP Chemical Mine.

(4) *Minefields.* All ODA personnel will perform each task listed below and arm an inert minefield according to FM 20-32 standards and within STP 31-18C3/4-SM-TG standards within 12 months.

- 051-192-1014—Install/Remove US Antihandling Devices on AT Mines.
- 051-192-3030—Direct a Minefield Laying Party.
- 051-192-3032—Direct Installation /Removal of a Hasty Protective Minefield

3-28. Rocket propelled grenades

a. *Standard (Category I).* MOS 18B assigned to an ODA and ODB will conduct instructional fire on RPG 7 and 18 within 12 months (AC) or 36 months (RC).

b. *Standard (Category II).* No training required.

c. *Training strategy.* Recommended training strategy and ammunition resourcing are given in table 3-26.

3-29. Close-quarters combat

a. *Standard (Category I).* All personnel assigned to a Company designated with a Theater-directed (CQC) mission will conduct sustainment training and qualify every quarter in accordance with table 3-27 and ST 31-20-6-1.

b. *Standard (Category II).* No training requirement.

c. *Training strategy.* Recommended training strategy and ammunition resources are given in table 3-27.

3-30. Recoilless rifles (RCRL), 84-mm

a. *Standard (Category I).* MOS 18B assigned to an ODA and ODB will conduct instructional fire on RCRL 84-mm within 12 months (AC) or 36 months (RC).

b. *Standard (Category II).* No training required.

c. *Training strategy.* Recommended training strategy and ammunition resourcing are given in table 3-28.

3-31. Recoilless rifles, 90-mm

a. *Standard (Category I).* MOS 18B/C will conduct instructional fire on RCRL 90-mm within 12 months (AC) or 36 months (RC).

b. *Standard (Category II).* No training required.

c. *Training strategy.* Recommended training strategy and ammunition resourcing are given in table 3-29.

3-32. Stinger

a. *Standard (Category I).*

(1) All 18B/C will conduct instructional training with the Stinger trainer launch simulator (STLS) within 12 months (AC) or 36 months (RC).

(2) MOS 18B will conduct missile live-fire training within 12 months (AC) or 36 months (RC). Missile live-fire training will be conducted at company level or higher.

b. *Standard (Category II).* No training requirement.

c. *Training strategy.* Recommended training strategies and ammunition requirements are in table 3-30.

3-33. Mortars, 107-mm

a. *Standard (Category I).* MOS 18B/C personnel assigned to an ODA and ODB will conduct instructional fire within 12 months (AC) or 36 months (RC).

b. *Standard (Category II).* No training requirement.

c. *Training strategy.* Recommended training strategy and ammunition resourcing are given in table 3-31.

Table 3-1
Annual Ammunition Requirement and Training Strategy for the TOW (Cat I)

EVENT	AC/RC	M80	HEAT
DODIC		L592 ¹	PV04 ¹
GUNNER TRAINING	1/.33		
PRACTICE TRACKING PER 18B/C	1/.33	18	
INSTRUCTIONAL FIRE /OBSERVED LIVE FIRE PER (COMPANY)	1/.33		2 PER CO
TOTAL RDS BN (75) PERSONNEL	AC/RC	1350/450	6/2 PER BN

Notes:

¹ USASOC procurement item after DA Training Stocks are depleted.

**Table 3–2
Annual Ammunition Requirement and Training Strategy for the Dragon (Cat I)**

EVENT	AC/RC	M80	HEAT
DODIC		L592 ¹	PB22/23 ¹
GUNNER TRAINING	1/.33		
PRACTICE TRACKING PER 18B/C	1/.33	20	
INSTRUCTIONAL FIRE /OBSERVED LIVE FIRE PER (COMPANY)	1/.33		2 PER CO
TOTAL RDS BN (75) PERSONNEL	AC/RC	1500/500	6/2 PER BN

Notes:

¹ USASOC procurement item after DA Training Stocks are depleted.

**Table 3–3
Annual Ammunition Requirement and Training Strategy for the 106-mm RCRL (Cat I)**

EVENT	AC/RC	.50 CAL TRACER	HEAT
DODIC		A574	C650 ¹
DRY FIRE	1/.33		
INSTRUCTIONAL FIRING PER 18B	1/.33	5	3
TOTAL INDIVIDUAL 18B	AC/RC	5 ²	3/1

Notes:

¹ USASOC procurement item after DA training stocks are depleted.

² In accordance with paragraph 3-7a, RC is authorized five rounds for instructional fire every 36 months.

**Table 3–4
Annual Ammunition Requirement and Training Strategy for the AT-4 (Cat I)**

EVENT	AC/RC	9-mm	M80	HEAT
DODIC		A358	L592	C995
GUNNER TRAINING	1/.33			
PRACTICE TRACKING PER 18B/C	1/.33	12	20	
INSTRUCTIONAL FIRE /OBSERVED LIVE FIRE PER (COMPANY)	1/.33			2
TOTAL INDIVIDUAL 18B/C	AC/RC	12/4	20/6	
TOTAL BN (75) 18B/C	AC/RC	900/300	1500/500	6/2

**Table 3–5
Annual Ammunition Requirement and Training Strategy for the M72 LAW (Cat I)**

EVENT	FREQAC/RC	M73	ATWESS	HEAT
DODIC		H708	L367	H557 ¹
INSTRUCTIONAL FIRE PER DET	1/.33			
INSTRUCTIONAL FIRE PER 18B/C	1/.33	3	10	
LFX PER DETACHMENT	3/.33	1		1
TOTAL RDS PER DETACHMENT	AC/RC	4/1	40/13	4/1
TOTAL RDS PER BN	AC/RC	100/33	1000/325	100/33

Notes:

¹ USASOC procurement item after DA training stocks are depleted.

**Table 3-6
Annual Ammunition Requirement and Training Strategy for the 60-mm Mortar (Cat I)**

EVENT	AC/RC	HE	WP	ILLUM	SRTR ¹
DODIC		B642	B646	B647	B645
INSTRUCTIONAL FIRE COMPANY	1/.33	504/168	72/24	45/15	17/17
TOTAL ROUNDS COMPANY	AC/RC	504/168	72/24	45/15	17/17
TOTAL RDS REQUIRED PER BN	AC/RC	1512/504	216/72	135/45	51/51

Notes:

¹ SRTR is refurbished nine times before replacing. Recommend 15 refurbishment kits (B653) per each (B645) cartridge requested. The tool kit (M880/M766), available at all stations, is required for recovery and refurbishment of M766 cartridge in accordance with TM 9-1315-252-12&P.

**Table 3-7
Annual Ammunition Requirement and Training Strategy for the 81-mm Mortar (Cat I)**

EVENT	AC/RC	HE	WP	ILLUM	SRTR
DODIC		C868/C256	C870/C276	C871/C226	C876
INSTRUCTIONAL FIRE COMPANY	1/.33	386/128	118/39	67/22	21/7
TOTAL ROUNDS COMPANY	AC/RC	386/128	118/39	67/22	21/7
TOTAL RDS REQUIRED PER BN	AC/RC	1158/386	354/118	201/67	63/21

**Table 3-8
Annual Ammunition Requirement and Training Strategy for the 120-mm Mortar (Cat I)**

EVENT	AC/RC	HE	WP	ILLUM	SRTR
DODIC		C623	C624	C226(81-MM)	C876(81-MM)
INSTRUCTIONAL FIRE COMPANY	1/.33	93/31	18/6	51/17	21/7
TOTAL ROUNDS COMPANY	AC/RC	93/31	18/6	51/17	21/7
TOTAL RDS REQUIRED PER BN	AC/RC	279/93	54/18	153/51	63/21

**Table 3-9
Annual Ammunition Requirement and Training Strategy for the M2 HB Machine Gun**

EVENT	AC/RC	BALL	MIX	BLANK
DODIC		A555	A557	A598
PRELIMINARY MARKSMANSHIP TNG	1/.33	DRY FIRE		
GUNNERS EXAM (DRY FIRE)	1/.33			
10-METER ZERO/PRACTICE FIRE	1/.33	117		
10-METER RECORD FIRE	1/.33	119		
TRANSITION ZERO/PRACTICE FIRE	1/.33	182		
TRANSITION RECORD FIRE	1/.33	154		
NIGHT ZERO/PRACTICE/ RECORD FIRE	1/.33	196		
ASSIST GUN (AG) 10-M FIRE	1/.33	236		
AG TRANSITION/NIGHT FIRE	1/.33	532		
INSTRUCTIONAL FIRE	1/.33	100		
ODA LIVE FIRE (PER WPN)	3/.33	200		200

**Table 3-9
Annual Ammunition Requirement and Training Strategy for the M2 HB Machine Gun—Continued**

EVENT	AC/RC	BALL	MIX	BLANK
DODIC		A555	A557	A598
TOTAL ROUNDS REQUIRED BN	CAT I NON ASGN		3900/1300	
	CAT I ASGN	33,984/NA	76,608/NA	
	CAT I ASGN LFXs		43,200/NA	43,200/NA
	CAT II ASGN		2,128/709	1,888/629

**Table 3-10
Annual Ammunition Requirement and Training Strategy for the M60 Machine Gun**

EVENT	AC/RC	BALL	MIX	BLANK
DODIC		A143	A131	A111
PRELIMINARY MARKSMANSHIP TNG	1/.33	(DRY FIRE)		
GUNNERS EXAM (DRY FIRE)	1/.33			
10-METER ZERO/PRACT FIRE	1/.33	117		
10-METER RECORD FIRE	1/.33	119		
TRANSITION ZERO/PRACTICE FIRE	1/.33		182	
TRANSITION RECORD FIRE	1/.33		154	
NIGHT ZERO/PRACTICE/ RECORD FIRE	1/.33		196	
ASSIST GUN (AG) 10-M FIRE	1/.33	236		
AG TRANSITION/NIGHT FIRE	1/.33		532	
INSTRUCTIONAL FIRING	1/.33		100	
GP LEVEL EVENTS	1/.33			5000
TOTAL BN	CAT I		26,500/803	
	CAT II GUN/AG	472/157	1064/355	
	ANNUAL TASKS			5000/1666

**Table 3-11
Annual Ammunition Requirement and Training Strategy for the M249 SAW Machine Gun**

EVENT	AC/RC	BALL	MIX	BLANK	
DODIC	CAT I/II	CAT I/II	A062	A064	A075
PRELIMINARY MARKSMANSHIP TNG	2/1	1/1	(DRY FIRE)		
10-METER ZERO/PRACT FIRE	2/1	1/1	117		
10-METER RECORD FIRE	2/1	1/1	119		
TRANSITION ZERO/ PRACTICE FIRE	2/1	1/1		182	
TRANSITION RECORD FIRE	2/1	1/1		154	
NIGHT ZERO/PRACTICE/ RECORD FIRE	2/1	1/1	196		
INSTRUCTIONAL FIRING	1/1	1/1		100	
LFXs PER ODA	3/NA	33/NA		500	500
TOTAL ROUNDS REQUIRED	CAT I 18B/C			236/(78)	532/177
	CAT I LFXs			1500/500	1500/500
	CAT I/II UNASGN			100/100	

**Table 3-14
Annual Ammunition Requirement and Training Strategy for the MM203 Grenade Launcher—Continued**

EVENT	FREQ						
	AC	RC	TP	HE	GSTR	RSTR	WSTR
DODIC			B519	B546	B504	B505	B535
INSTRUCTIONAL FIRE	1	1	5				
QUALIFICATION FIRE	2	1	12				
NIGHT RECORD FIRE	2	1	3				
LFX PER DETACHMENT	3	.33	6	6	2	2	2
TOTAL ROUNDS REQUIRED	CAT I ASSIGN		60/27	18/6	6/2	6/2	6/2
	CAT I UNASSIGN		5/5				
	CAT II ASSIGN		42/21				
	CAT II UNASSIGN		5/5				

Notes:

¹ TP rounds may be substituted for HE rounds.

**Table 3-15
Annual Ammunition Requirement and Training Strategy for the PISTOL**

EVENT	AC/RC	BALL
	DODIC	
PRELIMINARY MARKSMANSHIP INSTRUCTION	2/1	
INSTRUCTIONAL FIRE	1/1	25
PRACTICE FIRE	2/1	50
COMBAT PISTOL QUAL CRS	2/1	40
TOTAL ROUNDS REQUIRED	CAT I ASGN	180/115
TOTAL ROUNDS REQUIRED	CAT II ASGN	180/115
	CAT II UNASGN	25

**Table 3-16
Annual Ammunition Requirement and Training Strategy for the M67 Hand Grenade**

EVENT	FREQ AC/RC		ROUNDS REQUIRED	
	CAT I	CAT II	G878	G881
DODIC				
INSTRUCTIONAL /QUAL CRS	1/1	1/1	10	
LIVE GRENADE THROW	1/1	N/A		1
LFXs	3/.33	N/A	2	2
263 PERSONNEL	CAT I LIVE	THROW	2630/2630	263/263
25 DETACHMENTS	CAT I	LFXs	150/50	150/50
TOTAL REQUIRED (BN)			2780/2680	413/313

Table 3-17
Annual Ammunition Requirement and Training Strategy for the M18A1 Claymore

EVENT	FREQ	MINES	REQUIRED
DODIC	AC/RC	K139	K143 ¹
INSTRUCTION	1/1	X	
LIVE DETONATION ODA PERS	1/.33		

Notes:

¹ Live mines are resourced in table 3-25.

Table 3-18
Annual Ammunition Requirement and Training Strategy for the MK 19 Machine Gun

EVENT	FREQ AC/RC	ROUNDS REQUIRED	
		TP	HE
DODIC		B584	B542
PRELIMINARY MARKSMANSHIP TRAINING	1/.33	DRY FIRE	
INSTRUCTIONAL FIRE	1/.33	5	10
ZERO/TRANSITION FIRE	1/.33		47
TRANSITION FIRE	1/.33		42
NIGHT RECORD	1/.33		24
ASSIST GUNNER QUAL	1/.33		42
ODA LFXs PER WPN	3/NA	50	50
TOTAL REQUIRED GUNNER		5	123
REQUIRED ASSIST GNR		5	52
INSTRUCTIONAL FIRE W/DMVs (BN) 233 personnel		1165	4893
INSTRUCTIONAL FIRE WO/DMVs (BN) 265 personnel		1325/441	5565/1855
LFxs w/DMVs (BN)		2700/NA	2700/NA

Table 3-19
Annual Ammunition Requirement and Training Strategy for the Non-Standard Pistols/Revolvers

EVENT	FREQ AC/RC	WPN CERT	38 CAL	45 CAL	9-MM
DODIC			A400	A475	A363
M10	1/.33	5	10		
P38 (9X19)	1/.33	5			10
M1911A1	1/.33	5		10	
BROWNING HIGH POWER	1/.33	5			10
GLOCK 17	1/.33	5			10
P7M13	1/.33	5			10
SIG SAUER P226	1/.33	5			10
MARKAROV(PM)	1/.33	5			10
TOTAL ROUNDS REQUIRED			10/3	10/3	60/20

**Table 3–20
Annual Ammunition Requirement and Training Strategy for the Non-Standard Sub Machine Guns**

EVENT	FREQ AC/RC	WPN CERT	45 CAL	9-MM
DODIC			A475	A363
UZI (9X19) PARABELLUM	1/.33	10		30
M3A1	1/.33	10	30	
L2A3 (9X19) PARABELLUM	1/.33	10		30
M12 (9X19) PARABELLUM	1/.33	10		30
M45B (9X19) PARABELLUM	1/.33	10		30
M50 (9X19) PARABELLUM	1/.33	10		30
MP5A3 (9X19) PARABELLUM	1/.33	10		30
VZ23 (9X19) PARABELLUM	1/.33	10		30
MODEL 61 SKORPION	1/.33	10		30
MKIII	1/.33	10		30
WZ63	1/.33	10		30
MAC11	1/.33	10		30
TOTAL ROUNDS REQUIRED	AC/RC		30/(10)	330/(110)

**Table 3–21
Annual Ammunition Requirement and Training Strategy for the Non-Standard Rifles**

EVENT NS RIFLES	FREQ AC/RC	WPN CERT	A130	A059	Z203	A212	A182	A011	B546
DODIC			A130	A059	Z203	A212	A182	A011	B546
FNFAL	1/.33	10	30						
G3A4	1/.33	10	30						
M14	1/.33	10	30						
STG-77 ARG	1/.33	10		30					
FAMAS	1/.33	10		30					
AK47/AKM	1/.33	10			30				
M1200	1/.33	10						8	
M1903A4	1/.33	10				30			
M79	1/.33	10							4
21A1 H&K	1/.33	10			30				
PSG	1/.33	10			30				
GALIL	1/.33	10		30					
M1 GARAND	1/.33	10				30			
SKS	1/.33	10		30					
M2 CARB	1/.33	10					30		
TOTAL RDS	AC/RC		90/30	120/40	90/30	60/20	30/10	8/3	4/1

**Table 3-22
Annual Ammunition Requirement and Training Strategy for the Non-Standard Machine Guns**

EVENT NS MG	FREQ AC/RC	WPN CERT						
DODIC			A130	Z200 ¹	Z203 ¹	Z205 ¹	A218	Z210*
MG3	1/.33	10	100					
DSHK M1938	1/.33	10						100
MAG 58	1/.33	10	100					
RPK-74	1/.33	10		100				
1919A6	1/.33	10					100	
DP/DTM	1/.33	10				100		
SGM	1/.33	10				100		
RPD SERIES	1/.33	10			100			
PK SERIES	1/.33	10			100			
DP38	1/.33	10				100		
TOTAL	AC/RC		200/66	100/33	200/66	300/100	100/33	100/33

Notes:

¹ All Zulu items are USASOC procurement.

**Table 3-23
Annual Pyrotechnics for Battalion Support Functions.**

Nomenclature	DODIC	GSC & HHC	SF BN	SPT BN
Gren, Smoke HC	G930	15	248	60
Gren, Smoke Green	G940	3	212	12
Gren, Smoke Yellow	G945	7	254	12
Gren, Smoke Red	G950	12	106	48
Gren, Smoke Violet	G955	5	72	20
Gren, Smoke CS	G963	5	60	20
Riot Control Agent	K765	5	20	10
Riot Control Agent	K768	0	4	2
Sig, Illum, Red Para	L306	1	80	0
Sig, Illum, White Para	L307	4	50	0
Sig, Illum, Red Star	L311	1	30	0
Sig, Illum, White Star	L312	4	110	0
Sig, Illum, Green Star	L314	4	118	0
Flare, Surface Trip	L495	6	94	0
Fuze, Warning RR Red	L508	0	180	0
Marker, Location, Marine	L283	0	40	0
Marker, Location, Marine	L554	0	40	0
Sim, Proj. Gnd Burst	L594	15	800	0
Sim, Proj. Airburst	L595	0	12	0
Sim, Artillery, Gun Flash	L596	1	38	0
Sim, Booby Trap, Flash	L598	9	108	0
Sim, Booby Trap, Illum	L599	5	52	0
Sim, Booby Trap, Whis	L600	6	158	0
Sim, Hand Grenade	L601	17	664	0

**Table 3-23
Annual Pyrotechnics for Battalion Support Functions.—Continued**

Nomenclature	DODIC	GSC & HHC	SF BN	SPT BN
Starter, Fire	L621	0	30	0

**Table 3-24A
Annual Ammunition Requirement for the Combat Training Center Rotation (CTC)**

DODIC	NOMENCLATURE	RDS PER EVENT
A011	CTG, OO BUCKSHOT	24
A059	CTG, 5.56-MM BALL	1680
A063	CTG, 5.56-MM TRACER	840
A064	CTG, 5.56-MM AR 4/1 MIX	2000
A075	CTG, 5.56-MM BLANK LINKED	2000
A080	CTG, 5.56-MM BLANK	1680
A131	CTG, 7.62-MM 4/1 MIX	1600
A136	CTG, 7.62-MM SNIPER	10
A111	CTG, 7.62-MM BLANK LINKED	1600
A171	CTG, 7.62-MM SPECIAL	10
A191	CTG, .300 WIN	10
A363	CTG, 9-MM BALL	540
A358	CTG, 9-MM TRACER	15
A531	CTG, CAL .50 BALL	10
A557	CTG, CAL .50 MIX	1000
A598	CTG, CAL .50 BLANK	1000
B504	40-MM GRN STAR PARA	4
B505	40-MM RED STAR PARA	4
B519	40-MM TP-T	20
B546	40-MM HE	20
B535	40-MM WHITE STAR PARA	20
B542	40-MM HE LINKED	250
B584	40-MM TP LINKED	250
C282	90-MM HEAT	6
A140	CTG, 7.62/90-MM SUB CAL	6
C410	90-MM CANISTER	4
C995	AT-4	6
G878	GREN, PRACTICE	24
G881	GREN, HD FRAG	24
G930	GREN, SMOKE HC	24
G945	GREN, SMOKE YEL	4
G950	GREN, SMOKE RED	4
G955	GREN, SMOKE VIOL	4
H557	LAW, M72 SERIES 3-6	6
H708	LAW, SUB CAL	10
K139	MINE, M18A1 INERT	6
K143	MINE, M18A1 CLAYMORE	6
L306	SIG, ILLUM RS	4

Table 3-24A**Annual Ammunition Requirement for the Combat Training Center Rotation (CTC) —Continued**

DODIC	NOMENCLATURE	RDS PER EVENT
L307	SIG, ILLUM WHITE STAR	4
L312	SIG, ILLUM WS PARA	4
L314	SIG, ILLUM GRN STAR PARA	5
L495	TRIP FLARE	15
L598	SIM, BOOBYTRAP FLASH	4
L599	SIM, BOOBYTRAP ILLUM	4
L600	SIM, BOOBYTRAP WHISTLE	4
L601	SIM, HAND GRENADE	24
M023	CHG, DEMO C4	10
M130	CAP, BLASTING ELEC	15
M131	CAP, BLASTING NON ELEC	10
M456	DET, CORD (FT)	1000
M670	FUZE, TIME (FT)	100
M766	IGNITER, TIME FUZE	5

Notes:

These resources are for one ODA live-fire iteration.

Table 3-24B**Ammunition requirements for CTC rotations (Forward Operating Base)**

DODIC	A131/A111	A064/A075	A063/A080	K139	B542	SEE ITEM
FOB	3000/8000	8400/8000	2000/0	10	300	
100 MAN FID	4000/0	10000/0	0/12000			
12 MAN FID	2000/0	2000/0	0/1200			
SMK, GRN HC (G930)						100
SMK, GRN (G940)						100
SMK, GRN RED (G950)						100
SIG, ILL WHITE PARA (L307)						100
SIG, ILL RED STAR (L311)						100
SIG, ILL WHITE STAR (L312)						100
SIG, ILL GRN STAR (L314)						100

Table 3-25A**Annual Ammunition Demolition Allocation for Special Forces ODA Teams.**

DODIC	TYPE MUNITION	PER ODA
A130	7.62-mm Ball M14	12
B632	60-mm HE w/fuze	12
C256	81-mm HE w/fuze	12
C697	107-mm HE w/fuze	06
G881	Grenade, Hand Fragmentation	12
G900	Grenade, Hand Incendiary TH3	12
G937	Grenade, Rifle Smoke WP	12
H557	Rocket, 66-mm Heat (LAW)	12
K002	Activator, AT Mine Practice M1	12

Table 3–25A
Annual Ammunition Demolition Allocation for Special Forces ODA Teams. —Continued

DODIC	TYPE MUNITION	PER ODA
K030	Primer-igniter, AP Mine, fuze, M10A1	12
K040	Charge Spotting, AP mine M8	12
K051	Fuze, AT Mine, M604, Practice	12
K055	Fuze, AP Mine, M605 for M8 Practice	12
K091	Mine, AP, Inert M2	12
K092	Mine, AP, M16A1 (Korea only)	02
K105	Mine, AP, Practice	12
K121	Mine, AP, M14	02
K140	Mine, AP, Empty	12
K143	Mine, AP, M18A1	24
K180	Mine, AT, M15	02
K181	Mine, AT, M21	02
K231	Mine, AT, M15 Practice	12
K250	Mine, AT, M19	02
K917	Compound Thickening, M4	8
M023	Charge, Demolition, C-4, 1.24 lb ¹	504
M024	Charge, Demolition, M118	12
M028	Demolition Kit Bangalore Torpedo	01
M030	Charge, Demolition, 1/4 lb TNT	168
M032	Charge, Demolition, 1 lb TNT	228
M039	Charge, Demolition, 40 lb Cratering	06
M097	Cap, Blasting, Nonelectric, Inert	100
M098	Cap, Blasting, Electric, Inert	48
M130	Cap, Blasting, Electric	168
M131	Cap, Blasting, Nonelectric	552
M241	Destructor, Universal M10	12
M327	Coupling, Base Firing Device	12
M420	Charge, Demolition, Shaped, 15 lbs	6
M421	Charge, Demolition, Shaped 40 lbs	4
M456	Cord, Detonating, Reinforced	12000 ft
M458	Cord, Detonating, Inert	4000 ft
M591	Dynamite, Mil, M1	264
M627	Firing, Device, Pressure M5	12
M670	Fuze, Time Blasting M700	6000 ft
M757	Charge, Assembly, Demolition M183	12
M766	Igniter, Time Fuze	32
M842	Squib, Electric, M1	32
ML03	Firing Device, M142	36
M448	Detonator, 8-Second Delay, M2A1	24
M450	Detonator, 15-Second Delay, M1A2	24
M619	Firing Device, Delay (time pencil), M1	144
M623	Firing Device, Delay	144
M626	Firing Device, M1	36
M629	Firing Device, M1A1	36

Table 3-25A
Annual Ammunition Demolition Allocation for Special Forces ODA Teams. —Continued

DODIC	TYPE MUNITION	PER ODA
M630	Firing, Device, M3	36
	Firing Device, Time Delay (TDFD) Inert	04
MN11	Firing Device, Time Delay (TDFD)	04
ML47	Cap, Blasting, Non-Elect 30 ft Shock Tube	24
MN02	Cap, Blasting, Non-Elect 500 ft Shock Tube	24
MN03	Cap, Blasting, Non-Elect 1000 ft Shock Tube	24
MN06	Cap, Blasting, Non-Elect Delay M14	12
MN07	Cap, Blasting, Non-Elect Delay M15	12
MN08	Ignitor, Time Blasting Fuze, M18	48

Notes:

¹ If C-4 is not available, substitute TNT on a pound for pound basis.

² Annual resourcing for RC units will be .33% of each item annually.

Table 3-25B
Annual Ammunition Requirement and Training Strategy for the Non-Standard Demolition

TYPE	QTY
DYNAMITE: NON NITROGLYCERN BASED	50 EA
EMULTIONS: CAP SENSITIVE	50 EA
EMULSIONS: NON-CAP SENSITIVE	50 EA
BOOSTER: SLIP ON, 20 GR/FT	50 EA
DET CORD: 7.5 GR. FT	1000 EA
DET CORD: 60 GR/FT	1000 EA
DET CORD: 200 GR/FT	1000 EA
DET CORD: 500 GR/FT	1000 EA
CHARGE, FLEX LINEAR SHAPE, 1200 GR/FT	40 EA
CHARGE, FLEX LINEAR SHAPE, 2400 GR/FT	40 EA
CHARGE, FLEX LINEAR SHAPE, 5400 GR/FT	40 EA
DET CORD INITIATORS NON ELEC (VARIES LENGTH)	50 EA
NON-ELEC DETONATORS VARIES MILISEC DELAYS	50 EA
SHOCK TUBE 1000-FT ROLL	02 EA
SHOCK TUBE INITIATORS (STI)	50 EA
SHEET EXPLOSIVES (RDX OR PENT BASED)	02 BX
EXPLOSIVES FORMED PROJECTILES (EFP)	02 EA

Notes:

¹ USASOC procurement commercial purchase.

Table 3-26
Annual Ammunition Requirement and Training Strategy for the Rocket Propelled Grenades (RPG)

EVENT RPG	FREQ AC/RC		
DODIC		Z219	Z221
RPG 7 PER 18B	1/.33	2	
RPG 18 PER 18B	1/.33		2
TOTAL REQUIRED BN		78/26	78/26

**Table 3–27
Annual Ammunition Requirement and Training Strategy for the Close-Quarters Combat (CQC)**

EVENT	FREQ AC					
	CAT I					
	(1)	(2)	PISTOL	RIFLE		
DODIC			A363	A363/A059	A080	A011 A017
SLOW AIMED FIRE (1)	4	1	215	0		
SLOW AIMED FIRE (2)	4	1	85	120		
QUICK TGT ACQUISITION	4	1	320	80		
CONTROLLED PAIRS	4	1	260	90		
MULTIPLE TGT INDEXING	4	1	130	240		
2rd TGT ENGAGEMENT	4	1	540	120		
SHOOTING WHILE MOVING TGT ACQUISITION	4	1	180	260		
SHOOT WHILE MOVING	4	1	16	48		
SHOOT FROM BEHIND COVER	4	1	86	92		
SHOOT FROM BEHIND COVER ((NIGHT))	4	1	34	34		
PISTOL MARKSMANSHIP	4	1	360			
RIFLE MARKSMANSHIP	4	1		240		
BREACHING TRAINING	4	NA				50
LFX	4	1	60	120	10	5 5
TOTAL INDIVIDUAL		8904/2226	5296/1324	40	20	20
TOTAL PER CO.	(8)			2880	1440	1440
TOTAL PER CO.	(48)	427,392	254,208			
TOTAL PER CO.	(34)	75,684	45,016			
TOTAL PER CO.	(48) LFXs	103,680	207,360			
TOTAL TRAINING REQUIREMENT		606,756	506,584	2880	1440	1440

**Table 3–28
Annual Ammunition Requirement and Training Strategy for the 84-MM RCRL Carl Gustov**

EVENT	FREQ AC/RC	C382	C383	C384	C385	C386	A353
DODIC		HE	HEAT	ILLUM	SMOKE	TPT	SUB-CAL
DRY FIRE	1/.33						
INSTRUCTIONAL FIRE (PER 18B)	1/.33					1	5
INSTRUCTIONAL FIRE (COMPANY)	1/.33	1/1	1/1	1/1	1/1		
TOTAL RDS COMPANY	AC/RC	1/1	1/1	1/1	1/1	13/5	65/22
TOTAL BN		3/1	3/1	3/1	3/1	39/13	195/65

Notes:
¹ USASOC procured items.

Table 3–29
Annual Ammunition Requirement and Training Strategy for the 90-mm RCRL Rifle

EVENT	FREQ AC/RC	7.62	HEAT
DODIC		A140	C263 ¹
DRY FIRE	1/.33		
INSTRUCTIONAL FIRE	1/.33	78	3
TOTAL RDS REQUIRED	AC/RC	78/26	3/1
TOTAL BN		5850/1950	225/75

Notes:

¹ USASOC procurement item after DA Training Stocks are depleted.

Table 3–30
Annual Ammunition Requirement and Training Strategy for the Stinger Missile System

EVENT STINGER	FREQ AC/RC	STLS	LIVE MISSILES
DODIC		PL85 ¹	PL93 ¹
DRY FIRE	1/.33		
INSTRUCTIONAL FIRE	1/.33	1	3
LIVE-FIRE COMPANY		75	1
TOTAL BN	AC/RC	75/25	3/1

Notes:

¹ USASOC procurement items after DA Training Stocks are depleted.

Table 3–31
Annual Ammunition Requirement and Training Strategy for the 107-mm Mortar (Cat I)

EVENT 107-MM MORTARS	FREQ AC/RC	HE	WP	ILLUM	SRTR ¹
DODIC		C697	C708	C706	B645
INSTRUCTIONAL FIRE COMPANY	1/.33	93/93	17/17	51/51	19/19
TOTAL ROUNDS COMPANY	AC/RC	3/31	17/6	51/17	19/7
TOTAL RDS REQUIRED PER BN	AC/RC	279/93	51/17	153/51	57/19

Notes:

¹ B645 is refurbishable using a B653 kit. Recommend 16 refurbishment kits for each B645 cartridge requested. Tool kit (M880/M766) is available in accordance with TM 9-1315-252-12&P.

Chapter 4 160th Special Operations Aviation Regiment (Airborne)—Active Component and the 1/245th

Section I Training Programs

4–1. General

This chapter provides weapon standards, training strategies and training ammunition resource requirements for the 160th Special Operations Aviation Regiment (Airborne) and the 1/245th Aviation Battalion (SO) RC. The training programs are specifically designed for each weapon system within the regiment and the battalion. Each training event contains the standards and strategies, the ammunition requirement and the required frequency of fire.

4–2. Objective

The objective is to ensure training ammunition is available to maintain weapons proficiency.

4–3. Training programs

a. Training programs are developed for each weapon system. The training programs provide a method to attain and sustain weapon proficiency throughout the training year.

b. Standards are stated at the beginning of each program. These standards are based on training readiness requirements, unique training needs and objectives as specified by mission.

c. Dry-fire exercises, subcaliber exercises, use of devices and full caliber live-fire exercises are used to develop and maintain weapon proficiency.

d. Ammunition resources are based on the number of personnel required to become proficient and/or the number of weapon systems authorized.

e. All organic weapon systems are discussed in this chapter.

4–4. Training strategies

The training strategies in this chapter are based on exercises in current FMs, mission essential task lists (METL), and historical training data. The specifics of each exercise are not presented here.

Section II 160th Special Operations Aviation Regiment

4-5. Selection and training

a. Standards. All personnel arriving to the Regiment must qualify with the M16A2, 9-mm pistol and the MP5 SMG prior to assignment to one of the operational battalions.

b. Training strategy. All personnel will undergo initial training established in the selection and training program. While in this program, personnel will qualify and train in the different M16A2, 9-mm pistol and the MP5 SMG firing techniques as indicated in table 4-1. This strategy ensures all personnel are fully mission qualified prior to operational unit assignment and emphasizes weapon sustainment.

4-6. M16A2 rifle

a. Standards. All personnel assigned an M16A2 rifle will remain fully mission qualified with that weapon system once they have been assigned to a unit. Qualification consists of firing the record fire course (FM 23-9), firing in MOPP 4 protective clothing and firing at night for record within six months.

b. Training strategy. Recommended training strategies and ammunition resources are provided in table 4-2.

4-7. M9 combat pistol

a. Standards. All personnel assigned a 9-mm pistol will qualify within six months. Qualification consists of firing the combat pistol qualification course in accordance with FM 23-35.

b. Training strategy. Recommended training strategies and ammunition resources are provided in table 4-3.

4-8. MP-5 submachine gun

a. Standards. All personnel assigned an MP5 submachine gun will qualify within six months.

b. Training strategy. Recommended training strategies and ammunition resources are provided in table 4-4.

4-9. M2 HB machine gun

a. Standard. All assigned M2 machine gunners and AGs will qualify semiannually. Qualification consists of 10-meter record course, transition range course, and night firing for record.

b. Training strategy. Recommended training strategies and ammunition resources are provided in table 4-5.

4-10. M60 machine gun

a. Standard. All assigned M60 machine gunners and AGs will qualify within six months. Qualification consists of 10-meter record course, transition range course (FM 23-67), and night firing for record.

b. Training strategy. Recommended training strategies and ammunition resources are provided in table 4-6.

4-11. M249 squad automatic weapon

a. Standard. All personnel assigned a SAW will qualify within six months. Qualification consists of firing 10-meter record course, 10-meter transition course (in accordance with FM 23-14).

b. Training strategy. Recommended training strategies and ammunition resources are provided in table 4-7.

4-12. M203 grenade launcher

a. Standard. All personnel assigned an M203 will qualify within six months. Qualification consists of firing table 8-2 (FM 23-31).

b. Training strategy. Recommended training strategies and ammunition resources are provided in table 4-8.

4-13. Light antitank weapon

a. Standard. Two personnel per company will qualify by successfully engaging 5 of 10 targets with the M73 subcaliber rocket in accordance with FM 23-25, Appendix C, Tables I, II, and III within 6 months. Ninety percent of each company will observe a 66-mm HEAT M72 LAW fired within 12 months.

b. Training strategy. Recommended training strategies and ammunition resources are given in table 4-9.

4-14. Hand grenade

a. Standard.

(1) Ninety percent of all Company personnel will successfully negotiate any grenade practice exercise, as stated in FM 23-30 within 6 months.

(2) Ninety percent of all Company members will observe a live fragmentation hand grenade within 12 months.

b. Training strategy. Recommended training strategy and ammunition requirements are given in table 4-10.

4-15. M18A1/A2 Claymore mine

a. Standard. Ninety percent of assigned company personnel will emplace, arm and disarm an inert Claymore mine within 12 months. Ninety percent of assigned company personnel will observe a live Claymore mine detonation (FM 23-23) within 12 months.

b. Training strategy. Recommended training strategy and ammunition requirements are given in table 4-11.

4-16. MH-60 (DAP) aerial gunnery training and support

a. General.

(1) All designated DAP aviators will fully qualify before becoming DAP basic mission qualified (BMQ).

(2) Upon completion of Selection and Training, designation as an MH-60 DAP aviator, and successful aerial gunnery qualification, all DAP aviators will conduct sustainment training monthly. Requirements are given in table 4-12.

b. Mission Support.

(1) MH-60 aircraft provide frequent close air and suppressive fire assets for training in support of other Special Operations Forces.

(2) To minimize total ammunition requirements, units will make all attempts to maximize aviator sustainment training in conjunction with external training support.

(3) At no time will an aviator who is not fully mission qualified (FMQ) perform fire and maneuver in conjunction with external training support.

c. AGM-114 Hellfire requirements. Each aircrew (total 10) will fire one AGM-114 per year. Hellfire missiles will be used in conjunction with customer support. Using Hellfire missiles in this manner allows the aircrews to familiarize with the weapon system and allows the customers to train on coordination procedures, communication, designation and target effects associated with Hellfire missiles.

4-17. AH-6 aerial gunnery training and support

a. General.

(1) All basic mission trained (BMT) aviators will fully qualify before becoming basic mission qualified (BMQ). Specific requirements are included in table 4-13.

(2) Upon completion of Selection and Training and successful aerial gunnery qualification, all aviators will conduct sustainment training monthly.

b. Mission Support.

(1) AH-6 aircraft frequently provide close air and suppressive fire assets in support of Special Operations Forces.

(2) To minimize total ammunition requirements, units will make every attempt to maximize aviator sustainment training in conjunction with external support.

(3) At no time will an aviator who is not fully mission qualified (FMQ) perform fire and maneuver in conjunction with external support.

4-18. Crewchief door gunnery with the M134 minigun

a. Standard. All crewchiefs will fully qualify with the M134 minigun. Requirements are given in table 4-14.

b. Training strategy. Crewchiefs will fire from the door gunnery position in various aerial approaches until proficiency is obtained. Crewchief door gunnery training is conducted on a monthly basis.

4-19. Pyrotechnics and miscellaneous ammunition items

a. Standards. Simulate the greatest possible degree of realism during the conduct of joint live-fire exercises for ground troops.

b. Training strategy. Pyrotechnics provide greater realism for individual ground troops during joint readiness training exercises (JRTs), combined arms live fire exercises (CALFEXs), capabilities exercises (CAPEXs) and other joint exercises. Table 4-15 is based on historical data from previous exercises.

c. Cutters (M500).

(1) *Standards.* Applicable personnel will be trained and proficient in the execution of heavy equipment airborne operations in conduct of a forward area refueling and rearming point (FARRP).

(2) *Training strategy.* Training must be realistic. Execution of actual heavy equipment airborne operations must be conducted. All equipment must be made readily available including the charge reefing cutters used for cutting parachute lines from the equipment. The following computation will be used for figuring the amount of cutters required during the training year: 4 cutters/drop × 8 drops/mission × 2 missions/month × 12 months = 768.

Section III

1/245th Aviation Battalion

4-20. M16A2 rifle

a. Standards. Ninety percent of the personnel assigned an M16A1/A2 rifle will qualify within 12 months. Qualification consists of firing the record fire course (FM 23-9), and firing at night for record.

b. Training strategy. Recommended training strategies and ammunition resources are given in table 4-16

4-21. Pistols

a. Standards. All personnel assigned to the Battalion must familiarize with the pistol and its uses under different conditions. All soldiers assigned a pistol will qualify within 12 months. Qualification consists of firing the combat pistol qualification course in accordance with FM 23-35.

b. Training strategy. Recommended training strategies and ammunition resources are given in table 4-17.

4-22. M2 HB machine gun (.50 cal)

a. Standard. Ninety percent of the assigned M2 HB machine gunners and assistant gunners will qualify within 12 months. Qualification consists of firing the record course (FM 23-65) and firing at night for record.

b. Training strategy. Recommended training strategies and ammunition resources are given in table 4-18.

4-23. M60 machine gun

a. Standard. All M60 Machine Gunners and AGs will qualify within 12 months. Qualification consists of 10-meter record course, transition range course (FM 23-67), firing in MOPP 4 for record and night firing for record.

b. Training strategy. Recommended training strategies and ammunition resources are provided in table 4-19.

4-24. M249 squad automatic weapon

a. Standard. All personnel assigned a SAW will qualify within 12 months. Qualification consists of firing the 10-meter record course and the 10-meter transition course (in accordance with FM 23-14).

b. Training strategy. Recommended training strategies and ammunition resources are provided in table 4-20.

4-25. M203 grenade launcher

a. Standard. All personnel will qualify with the M203 GL within 12 months. For qualification standards see FM 23-31, table 8-2.

b. Training strategy. Recommended training strategies and ammunition resources are provided in table 4-21.

4-26. Light antitank weapon

a. Standard. Two personnel per company will qualify by successfully engaging 5 of 10 targets with the M73 subcaliber rocket in accordance with FM 23-25, Appendix C, Tables I, II and III within six months. Ninety percent of each company will observe a 66-mm HEAT M72 LAW fired within 12 months.

b. Training strategy. Recommended training strategies and ammunition resources are given in table 4-22.

4-27. Hand grenade

a. Standard.

(1) Ninety percent of all Company personnel will successfully negotiate any grenade practice exercise, as stated in FM 23-30 within 12 months.

(2) Ninety percent of all Company personnel will observe one live fragmentation hand grenade within 12 months.

b. Training strategy. Recommended training strategy and ammunition requirements are given in table 4-23.

4-28. M18A1/A2 Claymore mine

a. Standard. Ninety percent of assigned company personnel will emplace, arm, and disarm one inert Claymore mine within 12 months. Ninety percent of assigned Company personnel will observe a live Claymore mine detonation (FM 23-23) within 12 months.

b. Training strategy. Recommended training strategy and ammunition requirements are given in table 4-24.

4-29. MH-60D door gunnery

a. Standard. Ninety percent of the assigned M60D gunners must qualify within 24 months. Additionally, each gunner must have received sustainment training within 24 months. For qualification requirements, see FM 1-140, Tables V through VII.

b. Training strategy. Recommended training strategies and resources are given in table 4-25.

4-30. Crew chief door gunnery with the M134 minigun

a. Standard. All crewchiefs will fully qualify with the M134 minigun within 12 months.

b. Training strategy. Crewchiefs will fire from the door gunnery position in various aerial approaches until proficiency is obtained.

4-31. Pyrotechnics and miscellaneous ammunition

a. Standards. Simulate the greatest possible degree of realism during the conduct of joint live-fire exercises for ground troops.

b. Training strategy. Pyrotechnics will be used to provide greater realism for individual ground troops during quarterly training exercises, CALFEXs, CAPEXs and other joint exercises. Table 4-27 is based on historical data from previous exercises.

c. Cutters (M500).

(1) *Standards.* Applicable personnel will be trained and proficient in the execution of heavy equipment airborne operations in conduct of an FAARP.

(2) *Training strategy.* Training must be realistic. Execution of actual heavy equipment airborne operations must be conducted. This means all equipment must be made readily available including the charge reefing cutters used for cutting parachute lines from the equipment. The following computation will be used for figuring the amount of cutters required during the training year: 4 cutters/drop × 8 drops/mission × 2 missions/quarter × 4 quarters = 256.

**Table 4–1
Ammunition Requirement for Initial Training (TRC A)**

Weapon System	DODIC	Type	Rounds Required
M16A2	A059	Ball	348
	A063	Tracer	240
M9 Pistol	A363	Ball	673
MP5 SMG	A363	Ball	800

**Table 4–2
Training Strategy and Ammunition Requirement for the M16A2 Rifle—Sustainment (TRC A)**

Event	Freq	Rounds Required	
		Ball	Tracer
DODIC		A059	A063
Preliminary Marksmanship Instruction	2		
Zero	2	18	
Practice Fire	2	40	
Record Fire	2	40	
NBC Practice	2	20	
NBC Record	2	20	
Night Practice	2	20	10
Night Record	2	20	10
Total Rounds Required		356	40

**Table 4–3
Training Strategy and Ammunition Requirement for the M9 Pistol—Sustainment (TRC A)**

Event	Freq	Rounds Required	
		Ball	Tracer ¹
DODIC		A363	
Preliminary Marksmanship Training	2		
Familiarization ¹	2		40
Instructional Fire	2	25	
Barricade Fire	2		40
Combat Pistol Qualification Course	2	40	
Total Rounds Required		130	160

Notes:

¹ SOCOM procurement item.

**Table 4–4
Training Strategy and Ammunition Requirement for the MP 5 Submachine Gun—Sustainment (TRC A)**

Table	Event	Freq	Rounds Required
			Ball
DODIC			A363
1	Familiarization w/sights and trigger	2	30
2	Opposite hand firing for familiarization w/sights and trigger	2	10
3	Back to target, ready position, turn, single shot target engagement	2	30

**Table 4-4
Training Strategy and Ammunition Requirement for the MP 5 Submachine Gun—Sustainment (TRC A)—Continued**

Table	Event	Freq	Rounds Required
			Ball
			A363
4	Walkaway, 3d burst single target	2	30
5	Walk into double target 3d burst	2	30
6	Transition drill Fire, One rd from MP5, put the selector switch on safe, draw pistol and engage two targets	2	50
7	Facade/barrier firing multiple target diagonal run	2	50
8	LFX	2	150
Total Rounds Required			760

**Table 4-5
Annual Ammunition Requirement and Training Strategy for the M2 HB Machine Gun (TRC A)**

Event	Freq	Rounds Required		
		Ball	Mix	Blank
DODIC		A555	A557	A598
Familiarization	2		56	
Moving Target Record Fire	2		25	
Transition Range Record Fire	2	86	66	
10-Meter Record Fire	2	91	86	
NBC Practice Fire	2		56	
NBC Record Fire	2		56	
Night Practice Fire	2		66	
Night Record Fire	2		66	
Total Rounds Required Per Year Per soldier		354	954	0

**Table 4-6
Annual Ammunition Requirement and Training Strategy for the M60 Machine Gun (TRC A)**

Event	Freq	Rounds Required		
		Ball	Mix	Blank
DODIC		A143	A131	A111
Preliminary Marksmanship Training	2			
10-Meter Zero/Practice	2	117		
10-Meter Record	2	119		
Transition Zero/Practice	2		182	
Transition Record	2		154	
Night Zero/Practice/Record	2		196	
Assistant Gunner (AG) 10 m	2		236	
Transition/Night AG	2		532	
Total Rounds Required Per Year Per soldier		472	2600	

**Table 4-7
Annual Ammunition Requirement and Training Strategy for the M249 SAW (TRC A)**

Event	Freq	Rounds Required		
		Ball	Mix	Blank
DODIC		A062	A064	A075
Preliminary Marksmanship Training	2			
10-Meter Zero/Practice	2	57		
10-Meter Record	2	51		
Transition Zero/Practice	2		78	
Transition Record	2		66	
Night Zero/Practice/Record	2		90	
Total Rounds Required Per Year Per weapon		216	468	

**Table 4-8
Annual Ammunition Requirement and Training Strategy for the M203 Grenade Launcher (TRC A)**

Event	Freq	Rounds Required	
		HE	TP
DODIC		B546	B519
Familiarization	2	5	
Zero	2		3
Record/Qualification	2		9
NBC Practice Fire	2		2
NBC Record Fire	2		5
Night Practice Fire	2		3
Total Rounds Required Per Year Per soldier		10	44

**Table 4-9
Annual Ammunition Requirement and Training Strategy for the LAW (TRC A)**

Event	Freq	Rounds Required	
		Subcal M73	HEAT
DODIC		H708	H557
Tables I and II Day	2	7	
Table III Night	2	3	
Qualification	2	10	
Instructional Fire	2		2
Total Requirement Per Year Per Gunner		40	2

**Table 4–10
Annual Ammunition Requirement and Training Strategy for the Hand Grenade (TRC A)**

Event	Freq	Rounds Required	
		M228 Practice	M67 Frag
DODIC		G878	G881
Instruction/Qualification	2	10	
Live Grenade Throw	2 ¹		2 ¹
Total Requirements		20	2 ¹

Notes:

¹ Grenades = company requirements.

**Table 4–11
Annual Ammunition Requirement and Training Strategy for the M18A1 Claymore Mine (TRC A)**

Event	Freq	Rounds Required	
		Inert	M18A1
DODIC		K139	K143
Employment Instruction	1	X	
Live Claymore Detonation	1 ¹		2
Total Requirements Per Company			2 ¹

**Table 4–12
MH-60 Aerial Gunnery Training (TRC A)**

Event	Freq	Rounds Required ¹					
		Flare	2.75" FFAR Flech	HE	WP	TGTP	7.62
DODIC		H180	H459	H163	H116	B120	A165
BMQ Qual	3	12	20	54	8	720	6000
Sustainment	12	6	10	36	4	720	6000

Notes:

Step 1. To determine total number of rounds authorized by table 4-12, multiply the number of anticipated S&T pilots X 3 and then by specific type rocket in each column. Upon completion of gunnery qualification, pilots will conduct sustainment training for the remaining nine months of the year.

Step 2. Multiply the number of pilots currently on-hand or authorized (whichever is greater) X 12 (frequency) and then by the specific type rocket in each column.

Step 3. Add totals from Step 1 and 2 for annual internal training ammunition requirement.

**Table 4–13
AH-6 Aerial Gunnery Training (TRC A)**

Event	Freq	Flare	Rounds Required ¹			
			2.75" FFAR Flech	HE	7.62-mm Ball	SLAP ²
DODIC		H180	H459	H163	A165	
BMQ Qual	3	5	18	61	16500	4500
Sustainment	12	4	9	43	10500	3000

Notes:

¹ Step 1. To determine total number of rounds authorized by table 4-13, multiply the number of anticipated S&T pilots X 3 and then by specific type rocket in each column. Upon completion of gunnery qualification, pilots will conduct sustainment training for the remaining nine months of the fiscal year.

Step 2. Multiply the number of pilots currently on-hand or authorized (whichever is greater) X 12 (frequency) and then by the specific type rocket in each column.

Step 3. Add totals from Step 1 and 2 for annual internal training ammunition requirement.

² USASOC procurement.

Table 4-14
Training Strategy and Ammunition Requirement for the M134 Minigun (TRC A)

Table	Freq	Range	Mode	Low rounds	Rate/Seconds	High rounds	Rate/Seconds
1	12	250 m	Hover fire, boresight, aim point, Flare	100	3	200	3
2	12	100 m	Hover fire, antipersonnel point target rounds in 5-meter circle	200	6	300	4.5
3	12	250 m	Hover fire, vehicle fire 5-meter circle	200	6	300	4.5
4	12		Aerial reload				
5	12	250 m	Moving fire, 90° to target line, suppression, rounds in 20-meter circle	200	6	200	3
6	12	500 m	Moving fire 45° to target line, APC target. 3 Rounds in 30-m circle			400	6
7	12	100 m	Fast rope approach	400	12		
Total Requirements				13200		16800	

Table 4-15
Pyrotechnics Annual Pyrotechnic Requirement per Battalion (TRC A)

DODIC	Nomenclature	Battalion
G930	Smoke Grenade, HC	200
G940	Smoke Grenade, Green	42
G945	Smoke Grenade, Yellow	100
G950	Smoke Grenade, Red	40
G955	Smoke Grenade, Violet	48
L305	Sig Illum Green Para	12
L306	Sig Illum Red Para	48
L307	Sig Illum White Para	60
L311	Sig Illum Red Star	12
L312	Sig Illum White Star	36
L314	Sig Illum Green Star	36
L495	Sim Proj Ground Burst	60
L594	Flare Surface Trip	240
L596	Sim Arty Gun Flash	20
L598	Sim Boobytrap Flash	60
L599	Sim Boobytrap Illum	60
L600	Sim Boobytrap Whistle	20
L601	Sim Hand Grenade	160

Table 4-16
Training Strategy and Ammunition Requirement for the M16A2 Rifle—Sustainment (TRC A)

Event	Freq	Rounds Required	
		Ball	Tracer
DODIC		A059	A063
Battlesight Zero (25 m)	1	18	
Practice Fire	1	40	
Record Fire	1	40	

**Table 4-16
Training Strategy and Ammunition Requirement for the M16A2 Rifle—Sustainment (TRC A)—Continued**

Event	Freq	Rounds Required	
		Ball	Tracer
DODIC		A059	A063
Night Familiarization	1	20	10
Night Qualification	1	20	10
NBC Familiarization	1	20	
NBC Qualification	1	20	
Total Rounds Required Annually		178	20

**Table 4-17
Training Strategy and Ammunition Requirement for the M9 Pistol (TRC A)**

Event	Freq	Rounds Required	
		Ball	
DODIC		A363	
Instructional fire	1	10	
Combat Pistol Qualification Course	1	40	
Total Rounds Required		50	

**Table 4-18
Annual Ammunition Requirement and Training Strategy for the M2 HB .50 Cal HMG (TRC A)**

Event	Freq	Rounds Required		
		Ball	Mix	Blank
DODIC		A555	A557	A598
Instructional Fire	1		56	
10-Meter Record Fire	1	86		
Moving Target Record Fire	1		25	
Transition Record Fire	1		66	
NBC Practice Fire	1		56	
NBC Record Fire	1		56	
Night Practice Fire	1		66	
Night Record Fire	1		66	
Battalion ARTEP	1			50
Total Rounds Required Per Year Per weapon		86	391	50

**Table 4-19
Annual Ammunition Requirement and Training Strategy for the M60 MMG (TRC A)**

Event	Freq	Rounds Required		
		Ball	Mix	Blank
DODIC		A143	A131	A111
10-Meter Practice	1	108		
10-Meter Record Fire	1	108		
Transition Practice	1		140	

**Table 4-19
Annual Ammunition Requirement and Training Strategy for the M60 MMG (TRC A)—Continued**

Event	Freq	Ball	Rounds Required	
			Mix	Blank
DODIC		A143	A131	A111
Transition Record Fire	1		140	
NBC Practice Fire	1		70	
NBC Record Fire	1		140	
Night Practice Fire	1		70	
Night Record Fire	1		140	
Battalion ARTEP	1			200
Total Rounds Required Per Year Per weapon		700	216	200

**Table 4-20
Annual Ammunition Requirement and Training Strategy for the M249 SAW (TRC A)**

Event	Freq	Ball	Rounds Required	
			Mix	Blank
DODIC		A062	A064	A075
10-Meter Practice I	1	57		
10-Meter Practice Fire II	1	57		
10-Meter Record Fire	1	42		
Transition Practice	1		204	
Transition Record Fire	1		195	
NBC Record Fire	1		42	
Battalion ARTEP	1			100
Total Rounds Required Per Year Per weapon		156	441	100

**Table 4-21
Annual Ammunition Requirement and Training Strategy for the M203 Grenade Launcher (TRC A)**

Event	Freq	Rounds Required	
		HE	TP
DODIC		B546	B519
HE Instruction	1	5	
Zero	1		6
Record/Qualification	1		12
Night Record Fire	1	3	3
Total Rounds Required Per Year Per soldier		8	18

**Table 4–22
Annual Ammunition Requirement and Training Strategy for the LAW (TRC A)**

Event	Freq	Rounds Required	
		Subcal M73	HEAT M72
DODIC		H708	H557
Tables I and II Day	1	7	
Table III Night	1	3	
Qualification	1	10	
Instructional Fire	1		1
Total Requirement Per Year Per Gunner		20	1

**Table 4–23
Annual Ammunition Requirement and Training Strategy for the Hand Grenade (TRC A)**

Event	Freq	Rounds Required	
		M228 Practice	M67 Frag
DODIC		G878	G881
Instruction/Qualification	1	10	
Live Grenade Throw/company	1		2
Total Requirements Per company		10	2/company

**Table 4–24
Annual Ammunition Requirement and Training Strategy for the M18A1 Claymore Mine (TRC A)**

Event	Freq	Rounds Required	
		Inert	M18A1
DODIC		K139	K143
Employment Instruction	1	X	
Live Claymore Detonation	1		2
Total Requirements Per Company			2

**Table 4–25
MH-60D Door Gunnery (TRC A)**

Event	Freq	Rds Per Event ²	DODIC
Table I-IV	.5	336	A131
Table V	.5	196	
Table VI	.5	196	
Table VII	.5	196	
Total Rounds Required per airframe		924	

Notes:

¹ Ammunition authorization is based on number of airframes required by TOE (Example: Number of airframes x 924 = Ammunition Required).

² If augmented with door gunners, two M60Ds will be fired per airframe. (Example: 1 airframe x 2 x 924 = Ammunition Required).

**Table 4–26
Training Strategy and Ammunition Requirement for the M134 Minigun (TRC A)**

Table	Freq	Range	Mode	Low rounds	Rate Seconds	High rounds	Rate Seconds
1	1	250 m	Hover fire, bore sight, aim point, Flare	100	3	200	3
2	1	100 m	Hover fire, anti-personnel point target - rounds in 5-meter circle	200	6	300	4.5
3	1	250 m	Hover fire, vehicle fire 5-meter circle	200	6	300	4.5
4	1		Aerial reload				
5	1	250 m	Moving fire, 90° to target line, suppression, rounds in 20-meter circle	200	6	200	3
6	1	500 m	Moving fire 45° to target line, APC target. Rounds in 30-m circle			400	6
7	1	100 m	Fast rope approach	400	12		
Total Requirements				1100		1400	

**Table 4–27
Pyrotechnics—Annual Pyrotechnic requirement per Battalion (TRC A)**

DODIC	Nomenclature	Battalion
G930	Smoke Grenade, HC	200
G940	Smoke Grenade, Green	42
G945	Smoke Grenade, Yellow	100
G950	Smoke Grenade, Red	40
G955	Smoke Grenade, Violet	48
G963	Smoke Grenade, CS	12
L305	Sig Illum Green Para	12
L306	Sig Illum Red Para	48
L307	Sig Illum White Para	60
L311	Sig Illum Red Star	12
L312	Sig Illum White Star	36
L314	Sig Illum Green Star	36
L494	Sim Proj Ground Burst	60
L595	Flare Surface Trip	240
L596	Sim Arty Gun Flash	20
L598	Sim Boobytrap Flash	60
L599	Sim Boobytrap Illum	60
L600	Sim Boobytrap Whistle	20
L601	Sim Hand Grenade	160
M500	Cutter, Reefing Line	256

Chapter 5 Civil Affairs/Psychological Operations

Section I Training Programs

5–1. General

This chapter provides standards, training strategies, and resource requirements for weapons assigned to, and utilized by, civil affairs and psychological operations units, for both Active Component

(AC) and Reserve Component (RC). The training programs provided are specifically designed for each weapon system. Each program contains a strategy and standard that outlines the training resources and includes suggested frequencies of live fire, subcaliber and use of devices.

5–2. Objective

The objective is to assist commanders in attaining and sustaining acceptable levels of weapons and tactical proficiency in support of

civil affairs/psychological operations missions. The training programs provide a method for the attainment and sustainment of weapon proficiency throughout the training year.

5-3. Training strategies

The training strategies in this chapter are based on exercises in current FMs and ARTEPs. The specifics of each exercise will not be addressed in this pamphlet. For further information concerning these exercises consult the appropriate training document.

Section II Weapon Strategies

5-4. M16A1/A2

a. Standard. All personnel assigned an M16A1/A2 rifle will qualify in accordance with FM 23-9 within 12 months. Qualification consists of firing the record firing course, NBC record fire, and night record fire.

b. Training Strategy. Recommended training strategy and ammunition requirements are given in table 5-1.

5-5. Pistol, .45 cal and 9-mm

a. Standard. All personnel assigned a .45-cal/9-mm pistol will qualify in accordance with FM 23-35 within 12 months.

b. Training strategy. Recommended training strategies and ammunition requirements are given in table 5-2.

5-6. M60 machine gun

a. Standard. All assigned M60 gunners will qualify in accordance with FM 23-67 within 12 months.

b. Training strategy. Recommended training strategy and ammunition requirements are given in table 5-3.

5-7. M203 grenade launcher

a. Standard. All personnel assigned an M203 Grenade Launcher will qualify in accordance with FM 23-31 within 12 months.

b. Training strategy. Recommended training strategies and ammunition requirements are given in table 5-4.

5-8. Pyrotechnics and miscellaneous ammunition items

a. Standards. Simulate the greatest possible degree of realism during the conduct of training exercises for units.

b. Training strategy. Pyrotechnics are used to provide greater realism for units during training exercises. Table 5-5 is based on historical data from previous exercises.

**Table 5-1
Annual Ammunition Requirement and Training Strategy for the M16A1/A2**

Event	Freq	Rounds Required		
		Ball	Tracer	Blank
DODIC (A1/A2)		A071/A059	A068/A063	A080/A080
Preliminary Marksmanship Instruction (Dry Fire)	1			
Zero	1	18		
Practice Record Fire	1	40		
Record Fire	1	40		
NBC Practice Fire	1	20		
NBC Record Fire	1	20		
Practice Night Fire	1	20	10	
Night Record Fire	1	20	10	
Company/Battalion ARTEP/FTX/CTC	1			200
Total Rounds Required		178	20	200

**Table 5-2
Annual Ammunition Requirement and Training Strategy for the .45-cal/9-mm Pistol**

Event	Freq	Rounds Required
		9-mm/.45 cal
DODIC		A363/A475
Preliminary Marksmanship Instruction	4	
Instructional Fire	1	25
Combat Pistol Qualification Course for Record	1	40
Total Rounds Required		65

**Table 5-3
Annual Ammunition Requirement and Training Strategy for the M60 Machine Gun**

Event	Freq	Ball	Rounds Required	
			Mix	Blank
DODIC		A143	A131	A111
Preliminary Marksmanship Instruction (Dry Fire)	1			
10-Meter Zero/Practice Fire	1	117		
10-Meter Record Fire	1	119		
Transition Zero/Practice Fire	1		182	
Transition Record Fire	1		154	
Night Zero/Practice/Record Fire	1		196	
Assistant Gunner 10-Meter Fire	1	236		
Assistant Gunner Transition/Night Fire	1		532	
Battalion/Company ARTEP/FTX/CTC	1			250
Total Rounds Required		472	1064	250

**Table 5-4
Annual Ammunition Requirement and Training Strategy for the M203 Grenade Launcher**

Event	Freq	TP	Rounds Required	
			HEDP	White Star
DODIC		B519	B546	B535
Primary Marksmanship Training	1			
Zero	1	6		
Qualification	1	12		
Night Record Fire	1		3	
Battalion/Company ARTEP/FTX/CTC	1	4	1	1
Total Rounds Required		22	4	1

**Table 5-5
Annual Pyrotechnic Requirement per Battalion**

DODIC	Nomenclature	HQ & SPT CO	POG/CA BN
G930	Smoke Grenade, HC	15	60
G940	Smoke Grenade, Green	3	12
G945	Smoke Grenade, Yellow	7	12
G950	Smoke Grenade, Red	12	48
G955	Smoke Grenade, Violet	5	20
G963	Smoke Grenade, CS	5	20
K765	CS Capsule	5	10
K768	Riot Control CS	0	2
K866	Smoke Pot M5 Green	4	16
L305	Sig Illum Green Para	1	4
L306	Sig Illum Red Para	4	16
L307	Sig Illum White Para	4	16

**Table 5-5
Annual Pyrotechnic Requirement per Battalion—Continued**

DODIC	Nomenclature	HQ & SPT CO	POG/CA BN
L311	Sig Illum Red Star	1	4
L312	Sig Illum White Star	4	16
L314	Sig Illum Green Star	4	16
L410	M1 C/M Flare	0	16
L495	Flare Surface Trip	6	24
L594	Sim Proj Ground Burst	15	60
L596	Sim Arty Gun Flash	1	8
L598	Sim Boobytrap Flash	9	36
L599	Sim Boobytrap Illum	5	20
L600	Sim Boobytrap Whistle	6	24
L601	Sim Hand Grenade	17	68

Chapter 6 Mobilization

Section I Training Programs

6-1. General

a. This chapter provides standards, training ammunition requirements, and recommended training strategies for Reserve Component Special Operations and other forces during mobilization. Each Strategy outlines the training sequence, including frequencies for live fire and simulator usage.

b. The training strategies in this chapter are based on current doctrine, gunnery FMs, ARTEPs, and applicable MTPs. The appropriate manual will be consulted on the specifics of each activity.

c. Under the certification/validation program, it is not necessary for every element of an organization to qualify. To certify/validate elements, post-mobilization activities focus on mission preparation. To assist resource managers developing requirements for post mobilization train-up activities for Special Operations elements several assumptions must be made:

- (1) Up to one third of the force will not be certified/validated.
- (2) Up to fifty percent of the force requiring certification/validation will not need to verify qualification, however, they will need LFX training activities.
- (3) Up to one sixth of the force will not have completed initial entry training.
- (4) For non-certified/validated elements, a CTC rotation will be necessary.

d. As an example: in an entire Special Forces Group, we count on a battalion-sized element requiring some phase of certification/validation. In that battalion, one B team and six A teams may require weapon qualification ranges and ammunition. Weapons to be fired equates to 68 M16s, 12 M203s (including the M16 portion) and 8 pistols. The remaining elements of the battalion will require ammunition to support four fire tactical exercises (using blank ammunition), four LFXs and a CTC rotation for two B teams and 12 A teams. These are approximation methods and should not be taken as absolutes.

6-2. Objectives

Weapons training tasks in priority are—

- a.* Individual weapon proficiency.
- b.* Crew served weapon proficiency.
- c.* Common weapon proficiency.
- d.* Tactical training with blanks and simulators.
- e.* Live-fire tactical training.
- f.* Non-standard weapon proficiency.

6-3. Training strategies

- a.* Individual soldiers train on individual weapons.
- b.* Assigned crews/detachments assigned the mission to teach crew-served weapon skills will train on crew served weapons.
- c.* Special Forces Detachments are required to participate in a series of tactical exercises including four LFXs to certify/validate light infantry skills.

Section II Weapons Strategies

6-4. Antiarmor weapons

Ammunition allocations and training priorities for antiarmor weapons (TOW, 106-mm RCLR, Dragon, AT-4, LAW) are at tables 6-1 through 6-5.

6-5. Mortars

Ammunition allocations and training priorities for mortars (60-mm, 81-mm and 120-mm) are at table 6-6 through 6-8.

6-6. Machine guns

Ammunition allocations and training priorities for machine guns (M2 HB, M60 and M249 SAW) are at table 6-9 through 6-11.

6-7. Rifles

Ammunition allocations for rifles (M16A1/A2, M21 sniper rifle and M203 GL) are at table 6-12 through 6-14.

6-8. Pistols

Ammunition allocations for pistols (M1911A1 and 9-mm) are at table 6-15.

6-9. Hand grenades

Ammunition allocations for hand grenades are at table 6-16.

6-10. Claymore mine

Ammunition allocations for Claymore mines are at table 6-17.

6-11. Engineer weapons

a. This section provides training standards, strategies and ammunition resources for Special Forces units using Engineer munitions upon mobilization. ODA personnel are divided into the following two groups.

- (1) *Group I.* All ODA personnel.
- (2) *Group II.* The 18B and 18C in the detachment to be trained.
 - b.* *Training programs.* Training strategies are established for each task to be accomplished by the ODA. The standards are supported by training strategies. Resources are applied to the standards and strategies as written.
 - c.* *Munitions.* The quantities of munitions required are annotated

in table 6-18, with one iteration of the task to be accomplished by personnel of the ODA summarized in table 6-19.

(1) *Training standards.* Training standards for each task are given below.

(2) *Demolition standard.*

(a) Ninety percent of Group I personnel will perform each task listed below and prime demolition for live fire to FM 5-250 standards.

- 051-193-1002 Construct a Nonelectric Demolition Firing System.
- 051-193-1004 Construct an Electric Demolition Firing System.
- 051-193-1009 Construct a Detonating Cord Firing System.
- 051-193-1011 Install Dual Firing Systems.
- 051-192-3038 Install Booby Traps.
- 051-193-3050 Calculate and Designate Placement of Timber-cutting Charges.
- 051-193-3051 Calculate and Designate Placement of Steel-cutting Charges.
- 331-922-0502 Employ the M2A1 8-Second Delay Percussion Detonator.
- 331-922-0503 Employ the M1A2 15-Second Delay Percussion Detonator.
- 331-922-0504 Employ the M1 Delay Firing Device (Time Pencil).
- 331-922-0505 Employ Civilian Explosives.

(b) Ninety percent of Group II personnel will perform each task listed below and prime demolition for live fire according to FM 5-250 standards and within STP 31-18C3/4-SM-TG standards.

- 051-193-2028 Neutralize Obstacles.
- 051-193-3052 Calculate and Designate Placement of Breaching Charges.
- 051-193-3053 Calculate Explosives and Designate Placement of Cratering Charges.
- 331-922-0009 Prepare and Employ a Demolition Ambush.
- 331-922-0010 Prepare and Employ Expedient Munitions.
- 331-922-0500 Employ the M10 Universal Explosive Destructor.

- 331-922-0501 Employ the M19 Explosive Destructor.
- 331-922-0506 Construct and Employ Expedient Charges (shape, dust initiator, platter, ammonium nitrate satchel, cratering and grapeshot).

(3) *Antitank, Antipersonnel Mine Standard.* Ninety percent of ODA personnel will perform each task listed below and prime live mines for live detonation according to FM 20-32 standards.

Note. Each ODA is allocated one each live M15 AT, M19 AT, M21 AT and M24 AT mine. Each ODA member will arm and disarm each inert mine to standards for M2, M3, M1, M23, M16A1, M15, M19, M21 and M24.

- 051-192-1002 Install/Remove the M16A1 Bounding Fragmentation AP Mine. (Korea only)
- 051-192-1026 Install/Remove the M2 series (M2A4) Bounding AP Mine.
- 051-192-1004 Install/Remove the M25 Blast AP Mine.
- 331-922-0507 Install/Remove the M3 Blast AP Mine.
- 051-192-1006 Install/Remove the M15 AT Mine.
- 051-192-1007 Install/Remove the M19 AT Mine.
- 051-192-1008 Install/Remove the M21 AT Mine.
- 051-192-1028 Install/Disarm and Package the M24 AT Mine.
- 051-192-2009 Install/Remove the M1 One Gallon Chemical Mine with an Electric Detonating Assembly.
- 051-192-2010 Install/Remove the M23 AP Chemical Mine.

(4) *Minefields.* Ninety percent of Group II personnel will perform each task listed below and arm an inert minefield according to FM 20-32 standards and within STP 31-18C3/4-SM-TG standards within 12 months.

- 051-192-1014 Install/Remove US Antihandling Devices on AT Mines.
- 051-192-3030 Direct a Minefield Laying Party.
- 051-192-3032 Direct Installation/Removal of a Hasty Protective Minefield.

**Table 6-1
Mobilization Ammunition Requirement and Training Strategy for the TOW**

Event	Freq	Rounds Required		
		HEAT	M80	ATWESS
DODIC		PB96	L592	L367
Practice Tracking	1		18	
LFX	1	1		
FTX	1			14
Total Rounds Required per firer		1	18	14

**Table 6-2
Mobilization Ammunition Requirement and Training Strategy for the 106-mm RCLR (18B/18C)**

Event	Freq	Rounds Required	
		.50 Cal Tracer	HEAT
DODIC		A574	C650
Zero	1	6	
Instructional Firing	1	40	3
Total Rounds Required per firer		46	3

**Table 6-3
Mobilization Ammunition Requirement and Training Strategy for the Dragon (18B/C)**

Event	Freq	Rounds Required	
		M80	HEAT
DODIC		L592	PL22/23
Advanced Tracking	1	40	
LFX	1		1
FTX	1		1
Total Rounds Required per firer		40	2

**Table 6-4
Mobilization Ammunition Requirement and Training Strategy for the AT-4 (18B/C)**

Event	Freq	Rounds Required		
		9-mm	ATWESS	HEAT
DODIC		A358	L367	C995
Qualification (table III & IV)	1	14		
LFX	1			2 per BN
FTX	1		10	
Total Rounds Required per firer		14	10	2 per BN

**Table 6-5
Mobilization Ammunition Requirement and Training Strategy for the LAW**

Event	Freq	Rounds Required		
		M73	ATWESS	HEAT
DODIC		H708	L367	H557
Qualification	1	10		
LFX	4			25 per BN
FTX	1		10	
Total Rounds Required per firer		10	10	100 per BN

**Table 6-6
Mobilization Ammunition Requirement and Training Strategy for the 60-mm Mortar (Per 18B/C)**

Event	Freq	Rounds Required			
		HE	WP	ILLUM	SRTR ¹
DODIC		B642	B646	B647	B645
SRTR Practice	1				7 per BN
LFX	4	2	1	1	
Total Rounds Required per Mortar		2	1	1	7 per BN

Notes:

¹ SRTR is refurbished 9 times before replacing. Request 9 refurbishing kits per SRTR (DODIC BXXX).

**Table 6-7
Mobilization Ammunition Requirement and Training Strategy for the 81-mm Mortar (Per 18B/C)**

Event	Freq	Rounds Required			
		HE	WP	ILLUM	SRTR ¹
DODIC		C868	C870	C871	C876
SRTR Practice	1				7 per BN
LFX	1	2	1	1	
Total Rounds Required per Mortar		2	1	1	7 per BN

Notes:

¹ SRTR is refurbished 9 times before replacing. Request 9 refurbishing kits per SRTR (DODIC C045).

**Table 6-8
Mobilization Ammunition Requirement and Training Strategy for the 120-mm Mortar (Per 18B/C)**

Event	Freq	Rounds Required			
		HE	WP	LLUM	SRTR ¹
DODIC		C623	C624	C226 (81-mm)	C876 (81-mm)
SRTR Practice	1				7 per BN
LFX	1	2	1	1	
Total Rounds Required per Mortar		2	1	1	7 per BN

Notes:

¹ 81-mm SRTR. Refurbished 9 times before replacing. Request 9 refurbishing kits per SRTR (DODIC C045).

**Table 6-9
Mobilization Ammunition Requirement and Training Strategy for the M2 HB Machine Gun**

Event	Freq		Rounds Required	
	CAT I	CAT II	Ball	Mix
DODIC			A555	A557
Preliminary Marksmanship Instruction (Dry Fire)	1	1		
10-meter Zero Practice Fire	1	1	117	
10-meter Record Fire	1	1	119	
Transition Zero/Practice Fire ¹	1	1		182
Transition Record Fire ¹	1	1		154
Night Zero/Practice/Record Fire	1	1		196
Assist Gunner 10 Meter Practice Fire	1	1	236	
Assist Gunner Transition/Night Fire	1	1		532
LFX	4	1		500
Total Rounds Required		CAT I	472	3064
		CAT II	472	1564

Notes:

¹ These exercises may be fired from the tripod or vehicular mount.

**Table 6-10
Mobilization Ammunition Requirement and Training Strategy for the M60 Machine Gun**

Event	Freq		Rounds Required	
	CAT I	CAT II	Ball	Mix
DODIC			A143	A131
Preliminary Marksmanship Instruction (Dry Fire)	1	1		
10-Meter Zero/Practice Fire	1	1	117	
10-Meter Record Fire	1	1	119	
Transition Zero/Practice Fire	1	1		182
Transition Record Fire	1	1		154
Night Zero/Practice/Record Fire	1	1		196
Assist Gunner 10-Meter Practice Fire	1	1	236	
Assist Gunner Transition/Night Fire	1	1		532
LFX	4	1		500
Total Rounds Required		CAT I	472	3064
		ICAT II	472	1564

**Table 6-11
Mobilization Ammunition Requirement and Training Strategy for the M249 SAW**

Event	Freq		Ball	4/1 Mix	Blank
	CAT I	CAT II			
DODIC			A062	A064	A075
Preliminary Marksmanship Instruction (Dry Fire)	1	1			
10 Meter Zero/Practice Fire	1	1	117		
10 Meter Record Fire	1	1	119		
Transition Zero/Practice Fire	1	1		182	
Transition Record Fire	1	1		154	
Night Zero/Practice/Record Fire	1	1		196	
Assist Gunner 10 Meter Practice Fire	1	1	236		
Assist Gunner Transition/Night Fire	1	1		532	
LFX	4	1		500	
Total Rounds Required		CAT I	472	3064	
		CAT II	472	1564	

**Table 6-12
Mobilization Ammunition Requirement and Training Strategy for the M16A1/A2**

Event	Freq		Rounds Required		
	CAT I	CAT II	Ball	Tracer	Blank
DODIC (A1/A2)			A071/A059	A068/A063	A080/A080
Preliminary Marksmanship Instruction (Dry Fire)	1	1			
Zero	1	1	18		
Practice Fire	1	1	40		
Record Fire	1	1	40		

**Table 6-12
Mobilization Ammunition Requirement and Training Strategy for the M16A1/A2—Continued**

Event	Freq		Rounds Required		
	CAT I	CAT II	Ball	Tracer	Blank
DODIC (A1/A2)			A071/A059	A068/A063	A080/A080
NBC Practice Fire	1	1	20		
NBC Record Fire	1	1	20		
Night Practice Fire	1	1	20	10	
Night Record Fire	1	1	20	10	
Night Vision Goggle Zero Fire	1	1	18		
Adv Rifle Marksmanship	1	1	100		
LFX	4	1	100	20	
FTX	1	1			120
Total Rounds Required	CAT I		616	100	120
Total Rounds Required	CAT II		316	40	120

**Table 6-13
Mobilization Ammunition Requirement and Training Strategy for the M24 Sniper Rifle (ODA)**

Event	Freq	Rounds Required Match
DODIC		A171
Zero (Iron Sights)	1	15
Zero (Scope)	1	12
Qualification	1	60
Night Fire	1	15
Total Rounds Required		102

**Table 6-14
Mobilization Ammunition Requirement and Training Strategy for the M203 Grenade Launcher**

Event	Freq				Rounds Required	
	CAT I ASGND	CAT I UNASGND	CAT II ASGND	CAT II UNASGND	HE	TP
DODIC					B546	B519
Instructional Fire ¹		1		1		5
Zero	1		1			6
Qualification	1		1			12
Night Record Fire	1		1		3	
FTX	1		1			36
LFX	4		4		6	
Total Rounds Required	CAT I/II Assigned				28	54
	CAT I/II Unassigned					5

Notes:

¹ TP may be substituted for HE.

**Table 6–15
Mobilization Ammunition Requirement and Training Strategy for the 9-mm/M1911A1 .45 cal Pistol**

Event	Freq		Rounds Required
	CAT I	CAT II	9-mm/.45 cal
DODIC			A363/A475
Preliminary Marksmanship Instruction	1	1	
Instructional Fire	1	1	25
Combat Pistol Qualification Course	1	1	40
Total Rounds Required			60

**Table 6–16
Mobilization Ammunition Requirement and Training Strategy for the M67 Hand Grenade**

Event	Freq		Rounds Required	
	CAT I	CAT II	M228 (Practice)	M67
DODIC			G878	G881
Qualification Course	1	1	10	
Live Grenade Throw	1	1		1
LFX	4			24 per BN
Total Rounds Required			10	1 and 24 per BN

**Table 6–17
Mobilization Ammunition Requirement and Training Strategy for the M18A1/A2 Claymore Mine**

Event	Freq		Mines Required
	CAT I	CAT II	M18
DODIC			K143
Instruction	1	1	Inert
LFX	4		18 per BN
Total Mines Required			18 per BN

**Table 6–18
Mobilization Ammunition Allocations for Special Forces Teams**

DODIC	Type Munitions	Required per ODA
A130	7.62-mm Ball M14	6
B632	60-mm HE w/fuze	6
C256	81-mm HE w/fuze	6
C697	107-mm HE w/fuze	3
G881	Grenade, Hand Fragmentation	6
G900	Grenade, Hand Incendiary TH3	6
G937	Grenade, Rifle Smoke WP	6
H557	Rocket, 66-mm HEAT (LAW)	6
K002	Activator, AT Mine Practice, M1	6
K030	Primer-igniter, AP Mine, fuze, M10A1	6

Table 6-18
Mobilization Ammunition Allocations for Special Forces Teams—Continued

DODIC	Type Monitions	Required per ODA
K040	Charge, Spotting, AP Mine, M8	6
K051	Fuze, AT Mine, M604 Practice	6
K055	Fuze, AP Mine, M605 for M8 Practice	6
K092	Mine, AP, M16A1 (Korea only)	1
K143	Mine, AP, M18A1	6
K180	Mine, AT, M15	1
K181	Mine, AT, M21	1
K231	Mine, AT, M15 Practice	6
K250	Mine, AT, M19	1
K917	Compound Thickening, M4	2
M023	Charge, Demolition, C-4, 1.25-lb ¹	445
M024	Charge, Demolition, M118	3
M028	Demolition Kit, Bangalore Torpedo	1
M030	Charge, Demolition, 1/4 lb TNT	270
M032	Charge, Demolition, 1 lb TNT	1230
M039	Charge, Demolition, 40 lb Cratering	2
M097	Cap, Blasting, Nonelectric, Inert	12
M098	Cap, Blasting, Electric, Inert	12
M130	Cap, Blasting, Electric	312
M131	Cap, Blasting, Nonelectric	1170
M241	Destructor, Universal, M10	6
M327	Coupling Base, Firing Device	3
M420	Charge, Demolition, Shaped, 15 lb	2
M421	Charge, Demolition, Shaped 40 lb	1
M456	Cord, Detonating, Reinforced	21000 ft
M458	Cord, Detonating, Inert	1000 ft
M591	Dynamite, Mil, M1	480
M627	Firing Device, Pressure, M5	39
M670	Fuze, Time Blasting, M700	10200
M757	Charge Assembly, Demolition, M183	6
M766	Igniter, Time Fuze	2160
M842	Squib, Electric, M1	8
ML03	Firing Device, M142	39
M448	Detonator, 8-second Delay, M2A1	36
M450	Detonator, 15-second Delay, M1A2	36
M619	Firing Device, Delay (time pencil), M1	36
M623	Firing Device, Delay	36
M630	Firing Device, M1	38
M626	Firing Device, M1A1	38
M629	Firing Device, M3	38

Notes:

¹ If C-4 is not available, substitute TNT on a pound-for-pound basis.

**Table 6–19
Ammunition Requirement and Training Strategy for Demolition**

Event (Individual Tasks)	Task Number	Freq Live/Inert
Install a Dual Firing System	051-193-1011	3 / 1
Calculate and Designate Placement of Timber Cutting Charges (Inert)	051-193-3050	3 / 1
Calculate and Designate Placement of Steel Cutting Charges	051-193-3051	3 / 1
Install Booby Traps	051-193-3038	3 / 1
Install/Remove the M16 AP Mine (Korea only)	051-192-1002	1 / 1
Install/Remove the M15 AT Mine	051-192-1006	1 / 1
Install/Remove the M19 AT Mine	051-192-1007	1 / 1
Install/Remove the M21 AT Mine	051-192-1008	1 / 1
Install/Disarm/Package the M24 AT Mine	051-192-1028	1 / 1
Install/Remove the M1 1-Gallon Chemical Mine w/an Electric Detonating Assembly	051-192-2009	0 / 1
Install/Remove the M23 AP Chemical Mine	051-192-2010	0 / 1
Construct an Electric Demo Firing System	051-193-1004	3 / 1
Construct		3 / 1
Construct a Detonating Cord Firing System	051-193-1009	3 / 1
Employ Civilian Explosives	331-922-0505	3 / 1
Employ the M2A1 Delay Percussion Detonator (8 sec)	331-922-0502	3 / 0
Employ the M1A2 Delay Percussion Detonator (15 sec)	331-922-0503	3 / 0
Employ the M1 Delay Firing Device	331-922-0504	3 / 0
Install/Remove the M2 AP Mine	051-192-1026	0 / 1
Install/Remove the M25 AP Mine	051-192-1004	0 / 1
Install/Remove the M3 AP Mine	331-922-0507	0 / 1
Event (Team (ODA) Tasks)		
Neutralize Obstacles	051-193-2028	1 / 0
Calculate and Designate Placement of Breaching Charge	051-193-3052	1 / 0
Calculate Explosive and Designate Placement of Cratering Charge	051-193-3053	1 / 0
Prepare and Employ a Demolition Ambush	331-922-0009	1 / 0
Prepare and Employ Expedient Munitions	331-922-0010	1 / 0
Employ the M10 Universal Explosive Detonator	331-922-0500	1 / 0
Employ the M19 Explosive Detonator	331-922-0501	1 / 0
Construct and Employ Expedient Charges	331-922-0506	1 / 0
Install/Remove AT Mine Antihandling Device	051-192-1014	1 / 0
Direct a Minefield Laying Party	051-192-3030	0 / 1
Direct Install/Remove of a Hasty Protective Minefield	051-192-3032	0 / 1

Appendix A References

Section I Required Publications

AR 350-41
Training in Units. (Cited in paras 1-1a, 5-1d and 5-10b)

Section II Related Publications

A related publication is merely a source of additional information. The user does not have to read it to understand the regulation.

AR 220-1
Unit Status Reporting

AR 350-1
Army Training

ARTEP 1-385-MTP
Mission Training Plan for the Attack Helicopter Battalion

ARTEP 7-8-MTP
Mission Training Plan for the Infantry Rifle Platoon and Squad

ARTEP 7-90-Drill
Drills for the Infantry Mortar Platoon, Section, and Squad

ARTEP 7-90-MTP
Mission Training Plan for the Infantry Mortar Platoon, Section and Squad

ARTEP 44-117-11-Drill
Drills for Stinger Teams

FM 1-100
Army Aviation Operations

FM 1-108
Doctrine for Special Operations Aviation Forces

FM 1-140
Helicopter Gunnery

FM 6-20
Fire Support in the AirLand Battle

FM 6-30
Tactics, Techniques, and Procedures for Observed Fire

FM 7-8
Infantry Rifle Platoon and Squad

FM 7-10
The Infantry Rifle Company

FM 7-20
The Infantry Battalion (Infantry, Airborne, Air Assault)

FM 7-85
Ranger Unit Operations

FM 7-93
Long Range Surveillance Unit Operations

FM 10-1
Quartermaster Principles

FM 20-32
Mine/Countermine Operations

FM 21-76
Survival

FM 21-78
Resistance and Escape

FM 23-9
M16A1 Rifle and M16A2 Rifle Marksmanship

FM 23-10
Sniper Training

FM 23-11
90-mm Recoilless Rifle, M67

FM 23-14
M249 Light Machine Gun in the Automatic Rifle Role

FM 23-23
Antipersonnel Mine M18A1 and M18 (Claymore)

FM 23-24
Dragon Medium Antitank Assault Weapon, M47

FM 23-25
Light Antiarmor Weapons

FM 23-27
MK-19, 40-mm Grenade Machine Gun, MOD 3

FM 23-30
Grenades and Pyrotechnic Signals

FM 23-31
40-mm Grenade Launchers M203 and M79

FM 23-34
TOW Weapon System

FM 23-35
Combat Training with Pistols and Revolvers

FM 23-41
Submachine Guns, Caliber .45 M3 and M3A1

FM 23-65
Browning Machine gun Caliber .50 HB, M2

FM 23-67
Machine Gun, 7.62-mm, M60

FM 23-90
Mortars

FM 23-91
Mortar Gunnery

FM 31-19
Military Free-Fall Parachuting Tactics, Techniques and Procedures

FM 31-20
Doctrine for Special Forces Operations

FM 31-20-5
Special Reconnaissance Tactics, Techniques and Procedures for Special Forces

FM 31-26
Special Forces Advanced Operations Techniques

FM 33-1
Psychological Operations

FM 41-10

Civil Affairs Operations

FM 44-8

Small Unit Self-Defense Against Air Attack

FM 90-10 (HTF)

Military Operations on Urbanized Terrain (MOUT)

FM 90-10-1

An Infantryman's Guide to Combat in Built-Up Areas

FM 100-5

Operations

FM 100-25

Doctrine for Army Special Operations Forces

TC 23-2

66-mm Rocket Launcher M202A1

TC 25-6

Force-on-Force Collective Training Using the Tactical Engagement Simulation Training System

TC 25-8

Training Ranges

STP 7-11C14-SM-TG

Soldier's Manual, Skill Levels 1/2/3/4, and Trainer's Guide, MOS 11C, Indirect Fire Infantryman

STP 7-11H14-SM-TG

Soldier's Manual, Skill Levels 1/2/3/4, and Trainer's Guide, MOS 11H, Heavy Antiarmor Weapons Infantryman

STP 7-11BCHM14-SM-TG

Soldier's Manual, Skill Levels 1/2/3/4, and Trainer's Guide, CMF 11, Infantry

STP 21-1

Soldiers Manual of Common Tasks

STP 31-18B34-SM-TG

Soldier's Manual, MOS 18B, Special Forces Weapons Sergeant, Skill Levels 3/4

STP 31-18C34-SM-TG

Soldier's Manual and Trainer's Guide for MOS 18C Special Forces Engineer Sergeant

RTC 350-1

Regimental Training Circular Commander, HQ 75th Ranger Regiment, ATTN: AORG-SC, Fort Benning, GA 31905-5893

USASFC(A) Reg 350-1

Component Training Commander, USAFC, USASF, ATTN: AOSOS-GCT, Fort Bragg, NC 28307-5200

Section III

Prescribed Forms

This section contains no entries.

Section IV

Referenced Forms

This section contains no entries.

Glossary

Section I Abbreviations

AB ammunition bearer	BNCOC Basic Noncommissioned Officers Course	DAMO-TRS Deputy Chief of Staff for Operations and Plans (Training)
AC Active Component	BN battalion	DAP defensive armored penetration
AG assistant gunner	CA Civil Affairs	DCSOPS Deputy Chief of Staff for Operations and Plans
AGES/AD air-to-ground engagement system/air defense	Cal calibration/caliber	det detachment
AIT advanced individual training	CALFEX combined arms live fire exercise	dist distance
AMT advanced military operations on urban terrain	CAPEX capabilities exercise	DODIC Department of Defense Identification Code
AOE Army of Excellence	CAR carbine automatic rifle	ea each
AP antipersonnel	CAT category	EDRE emergency deployment readiness exercise
APC armored personnel carrier	Cbt Arms Combat Arms	EFP explosive formed projectile
AR Army regulation	CG Commanding General	EXEVAL external evaluation
ARNG Army National Guard	CMF career management field	FARRP forward area rearm and refuel point
ARTEP Army Training and Evaluation Program	coax coaxial	FDC fire direction center
arty artillery	CONC concussion	FFAR folding fin aerial rocket
ASA(RDA) Assistant Secretary of the Army (Research, Development and Acquisition)	CRD chemical reconnaissance detachment	FIST fire support team
ASGND assigned	CQB close-quarters battle	flech flechette
AT antitank	CQC close-quarters combat	fir flair
ATSC Army Training Support Center	CRT combat readiness training	flsh flash
ATWESS antitank weapon effects signature simulator	CS close support/combat support	FMQ fully mission capable
BILAT bilateral training	CSA Chief of Staff of the Army	FM field manual
blk blank	CSS combat service support	FO forward observer
BMQ basic mission qualified	CTC combat training center	FORSCOM U.S. Army Forces Command
BMT basic mission trained	CTT common task test	FRAG fragmentation
	DA Department of the Army	freq frequency

FSE fire support element	LES launch environment simulator	proj projectile
FTX field training exercise	LFX live-fire exercise	RAAWS ranger antiarmor-antipersonnel weapon system
gnr gunner	LRSD long-range surveillance detachment	RC Reserve Component
GL grenade launcher	m meter	RCLR recoilless rifle
GMG grenade machine gun	MACOM major Army command	RDX rapid demolition explosive
gnd ground	METL mission-essential task list	reg regulation
gren grenade	MG machine gun	RG range
grn green	MILES multiple integrated laser engagement system	rnd round
HB heavy barrel	MICLIC mine clearing line charge	RNG range, ranger
HE high explosive	mm millimeter	rqmt requirement
HEPD high explosive, point detonating	MOPP mission oriented protective posture	RPG rocket-propelled grenade
HEAT(-TPT) high explosive antitank (target practice tracer)	MORTEP Mortar Army Training and Evaluation Program	RRF Ranger Ready Force
HHC Headquarters and Headquarters Company	MOS military occupational specialty	RTC regimental training circular
HG hand grenade	MOUT military operations on urban terrain	S&T standardization and training
HMG heavy machine gun	MTP mission training plan	SAAD small arms air defense
HQDA Headquarters Department of the Army	NBC nuclear, biological and chemical	SATA safety and arming test aid
IDN initial distribution number	NGB National Guard Bureau	SAW squad automatic weapon
illum illumination	NTC National Training Center	sim simulator
JOTC Joint Operations Training Center	NVG night vision goggles	SM soldiers manual
JRT Joint Readiness Training	OD(A) operational detachment (A)	SMG submachine gun
JRTC Joint Readiness Training Center	PAM pamphlet	smk smoke
LAW light antitank weapon	para paragraph, parachute	SO Special Operations
lb pound	pers personnel	SOAR Special Operations Aviation Regiment
		SOCOM Special Operations Command

SOF
Special Operations Forces

SOT(A)
support operational team (A)

SOW
Special Operations Wing

spt
support

SRTR
short range training round

STI
shock tube initiators

STLS
stinger training launch simulator

STP
soldier training publication

STRAC
Standards in Training Commission

TACP
tactical air control party

TADSS
training aids, devices, simulators and simulations

TC
training circular

TDFD
time-delayed firing device

tgt
target

TOW
tube-launched, optically tracked, wire-guided missile

tng
training

TNT
trinitrotoluene

TP
training projectile

TPT
troop proficiency trainer/target practice tracer

TRADOC
U.S. Army Training and Doctrine Command

TRC
training readiness condition

TSC
training support center

TSFO
Training set fire observation

UNASGND
unassigned

USAR
U.S. Army Reserve

USASOC
U.S. Army Special Operations Command

UW
unconventional warfare

VCSA
Vice Chief of Staff of the Army

w
with

whst
whistling

wht
white

wo
without

wpn
weapon

yel
yellow

WP
white phosphorus

WSP
white star parachute

Section II **Terms**

This section contains no entries.

Section III **Special Abbreviations and Terms**

This section contains no entries.

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