

## **Chapter 2**

### **Rangers**

#### **Section I**

##### **Training Programs**

###### **2-1. General**

This chapter provides weapon standards, training strategies and resource requirements the 75<sup>th</sup> Ranger Regiment. The training programs provided are specifically designed for each weapon system within Ranger units. Each program contains a standard and strategy, which outlines the training requirements and includes suggested frequencies of live fire, subcaliber and device usage.

###### **2-2. Objective**

The objective is to assist Ranger commanders in attaining and sustaining necessary to ensure proficiency of all weapon systems. The training programs will provide a method for the attainment and sustainment of weapons proficiency throughout the training year.

###### **2-3. Training programs**

Training programs have been developed with the standard stated at the beginning of each program. The individual training strategy is given first, followed by the training of the squad, crew and/or platoon. Proficiency is achieved through the use of dry-fire exercises, blank fire exercises, subcaliber exercises, device usage 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 would train at each opportunity.

###### **2-4. Training strategies**

The training strategies in this section are based on exercises in current Field Manuals (FMs) 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 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 Weapons Training Strategies**

###### **2-5. 9mm Pistol**

*a. Standard.* All Rangers assigned a 9mm pistol will qualify every six months. Qualification consists of firing the combat pistol qualification course IAW 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 IAW 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. 12 Gauge Shotgun.**

*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 IAW 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 SAW**

*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 IAW 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 negotiate any grenade practice exercise every six months IAW FM 23-30 or conduct practice grenade throwing in conjunction with squad or platoon EXEVALS, 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. AT4**

*a. Standard.* Two Rangers per Rifle/Weapon squad will qualify with the AT4 every six

months. Qualification consists of firing the subcaliber ammunition (9mm) IAW Tables III & IV of Appendix D, FM 23-25.

*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 (AGs) 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 range 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 IAW FM 23-27 (Table C-5) and firing at night.

*b. Training Strategy.* Recommended training strategies and ammunition requirements are provided in Table 2-12.

### **2-16. Mortars – 60mm, 81mm, and 120mm.**

*a. Standard.* All Rangers assigned to the mortar platoon will successfully complete applicable portions of the Regimental Mortar Certification Program (RMCP) every six months (the RMCP includes the Gunner's Test IAW FM 23-90 for all three mortar systems for members of mortar squads). Each mortar platoon will successfully fire all mortar live fire missions identified in ARTEP 7-90-MTP for each system quarterly. These missions will be fired as either a mortar platoon or mortar section. Additionally, each mortar platoon will undergo an externally evaluated mortar evaluation (MORTEP) annually. These MORTEPs will be conducted in place of one of the quarterly system LFXs and will involve all three mortar systems. Additional mortar training guidance is contained in Regimental Training Circular 350-1.

*b. Training Strategy.* Training strategies for the Ranger Battalion Mortar Platoons are provided in tables 2-13, 2-14, and 2-15.

### **2-17. Forward Observer (FO)**

*a. Standard.* All assigned Ranger FO Teams must adjust the three missions identified in Table 2-19 IAW Regimental TC 350-1 every six months.

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

## 2-18. Pyrotechnics

Use Table 2-17 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/weapons squad will incorporate three live Claymore Mines in conjunction with a LFX.

*b. Training Strategy.* Recommended training strategies and ammunition requirements are provided in Table 2-18.

## 2-20. Mines

*a.* The annual ammunition requirements for demolition systems are given in Tables 2-19.

*b.* Antitank Mine Standard.

(1) One-Hundred percent of the Ranger squad members must perform the individual mine warfare tasks listed below every six months. Training will be accomplished with inert devices.

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 listed below every six months. Training will be accomplished with inert devices.

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. Demolitions Standard*

(1) Each Ranger Rifle Squad must have a basic demolitions team which must perform the basic demolitions tasks live as listed below IAW Regimental TC 350-1 every six months.

Basic Demolition Task List:

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) demolitions charge .

Task 4: Construct an electric firing circuit (common series and leapfrog series) to detonate two or more demlition 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.

(2) Explosive Breaching Charge Task List:

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.

(3) Each Ranger rifle platoon must have an advanced demolition team which must perform the advanced demolition tasks as listed below, in accordance with Regimental TC 350-1, every 12 months.

Advanced Demolition Task List:

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 non-electrically 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 anti-tank 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.

## **2-21. Stingers**

a. MOS 18B will conduct missile live fire training within 12 months (AC) and 36 months (RC). Missile live fire training is to 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 2-20.

## **2-22. Javelin**

a. *Standard.* Ninety percent of the designated Javelin gunners and assistants will have verified Javelin gunnery by scoring 75% on each BST sustainment Javelin exercise (FM 23-37) within the past three months. Each Ranger Javelin Teams will have participated in a LFX to standard (ARTEP 7-8 MTP) within the last three months. All designated Javelin gunners will have successfully participated in a platoon external evaluation to standard (ARTEP 7-8 MTP) as

part of a company or higher FTX within the past six months. All designated Javelin gunners will have received a GO on all Gunner Skill Test tasks (FM 23-37) within the past six months..

*b. Strategy.* Recommended training strategies and ammunition requirements are provided in Table 2-21.

<b>Table 2-1 Regimental Training Requirements</b>	
Task	Remarks
Instructional ammunition.	Required to familiarize Rangers on the capabilities of weapons and ammunition.
Zero/Field Fire Qualification Night Fire/NBC Fire	Regiment is required to qualify every six months to maintain readiness. 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 a 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 at least biennially.	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).
Joint Readiness Exercise (JRX)	JRXs involve one or more Ranger battalions and aviation assets from SOAR and 16 <sup>th</sup> 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 proficiency of 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 which 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 9mm Pistol**

Event	Frequency	Rounds Required
DODIC		A363
Instructional	2	40
Record/qualification	2	40
Advance MOUT Training (AMT)	1	40
RRF Preparation	1.33	14
<b>Total Rounds Required</b>		<b>219</b>

**Table 2-3  
Annual Ammunition Requirement and Training Strategy for the M16A2/M4A1 (CAT I & II)<sup>1</sup>**

Event	Frequency		Ball A059	Tracer A063	Rounds Required	
	CAT I	CAT II			SRTA A065	Blank A080
Instructional	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
Major Exercise	1					210
JRX	1.33					120
BILAT	2.67	2.67				120
Advance MOUT Training (AMT)	1		180		30	
RRF Preparation	1.33		18			
EDRE	1		210			120
<b>Total Rounds Required</b>	<b>CAT I</b>		<b>2870</b>	<b>200</b>	<b>30</b>	<b>1530</b>
	<b>CAT II</b>		<b>356</b>	<b>40</b>	<b>0</b>	<b>320</b>

Notes:

1. This includes M16A1/M4A1 with M203.

<b>Table 2-4 Annual Ammunition Requirement and Training Strategy for the 12 Gauge Shotgun (CAT I)</b>		
Event	Frequency	Rounds Required 00 Buckshot
DODIC		A011
Instructional	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
<b>Total Rounds Required</b>		<b>272</b>

<b>Table 2-5 Annual Ammunition Requirement and Strategy for the M24 Sniper Rifle (CAT I)</b>			
Event	Frequency	Rounds Required	
		7.62 Match	.50 cal
DODIC		A136	A606
Sustainment	2		40
Instructional	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	
AMT	1	86	
RRF Preparation	1.33	20	
<b>Total Rounds Required</b>		<b>1416</b>	<b>80</b>

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

Event	FREQ	<u>Rounds Required</u>		
		HE	TP	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	
<b>Total Rounds Required</b>		<b>18</b>	<b>294</b>	<b>53</b>

<b>Table 2-7 Annual Ammunition Requirement and Training Strategy for the M249 SAW</b>				
Event	FREQ	<u>Rounds Required</u>		
		BALL	MIX	BLANK
DODIC		A062	A064	A075
10m Zero / Practice <sup>1</sup>	2	57		
10m Practice Qual. <sup>1</sup>	2	39		
10m Qual. <sup>1</sup>	2	42		
Practice Transition <sup>1</sup>	2	9	195	
Trans. Qualification <sup>1</sup>	2		195	
Night / Zero / Rec Fire <sup>2</sup>	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
JRX	1.33			800
BILAT	2.67			800
RRF Preparation	1.33		40	
EDRE	1		800	400
<b>Total Rounds Required</b>		<b>396</b>	<b>10023</b>	<b>9400</b>

Notes:

1. Practice and Qualify IAW FM 23-14.
2. Night zero and record fire IAW FM 23-14.

<b>Table 2-8 Annual Ammunition Requirement and Training Strategy for Hand Grenades</b>				
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	
<b>Total Rounds Required</b>		<b>12</b>	<b>21</b>	<b>6</b>

<b>Table 2-9 Annual Ammunition Requirement and Training Strategy for the AT4 (CAT I)</b>				
Event	Frequency	9mm	ATWESS	HEAT
DODIC		A358	L367	C995
Field Fire <sup>1</sup>	2	24		
Record/Qualification <sup>2</sup>	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		
<b>Total Rounds Required<sup>3</sup></b>		<b>92</b>	<b>25</b>	<b>16</b>

Notes:

1. Qualification Table I (12 Rds) and Table II (12 Rds)

2. Qualification Table III (8 Rds) and Table IV (6 Rds)

3. There are 48 rifle/weapon squads per Ranger Battalion that results in 96 Rangers that must qualify with the AT4 annually.

<b>Table 2-10 Annual Ammunition Requirement and Training Strategy for the M240B</b>				
Event	Frequency	Rounds Required		
		Ball	Mix	Blank
DODIC		A143	A131	A111
Preliminary Marksmanship Gunner/AG/AB	2			
10 Meter Zero/Practice	2	351 <sup>1</sup>		
10 Meter Record	2	357 <sup>1</sup>		
Transition Zero/Practice	2		546 <sup>1</sup>	
Transition Record	2		462 <sup>1</sup>	
Night/Zero/Prac/Rec Fire	2		588 <sup>1</sup>	
Squad/Platoon FTX	2		600 <sup>2</sup>	400
Squad/Platoon LFX	6		800	600
CALFEX	2		600 <sup>2</sup>	400
Company FTX/DFT	2		600 <sup>2</sup>	400
Battalion FTX	2			600
EXEVAL	1		800 <sup>2</sup>	400
Major Exercise	1		600 <sup>2</sup>	400
JRX	1.33			400
BILAT	2.67			400
RRF Preparation (G/AG/AB)	1.33	54		
EDRE	1		800	400
<b>Total Rounds Required</b>		<b>1488</b>	<b>13792</b>	<b>10000</b>

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.

<b>Table 2-11 Annual Ammunition Requirement and Training Strategy for the M2 HB MG (CAT 1)</b>				
Event	Frequency	Rounds Required		
		Ball	Mix	Blank
DODIC		A555	A557	A598
10 Meter Zero/Practice	2	234 <sup>2</sup>		
10 Meter Record Fire	2	238 <sup>2</sup>		
Transition Zero/Practice	2		364 <sup>2</sup>	
Transition Record	2		308 <sup>2</sup>	
NBC Zero/Record <sup>1</sup>	2		364 <sup>2</sup>	
Night Zero/Practice	2		360 <sup>2</sup>	
Night Record <sup>1</sup>	2		308 <sup>2</sup>	
Squad/Platoon FTX	2			400
Squad/Platoon LFX	2		1200 <sup>3</sup>	200
CALFEX	1		400 <sup>3</sup>	100
Battalion FTX/DFT	1			200
Major Exercise	1			200
JRX	1.33			200
BILAT	2.67		200 <sup>3</sup>	100
RRF Preparation (G/AG)	1.33	234		
<b>Total Rounds Required</b>		<b>1255</b>	<b>6742</b>	<b>2233</b>

Notes:

1. NBC and Night Record fires are required for qualification IAW 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.

<b>Table 2-12 Annual Ammunition Requirement and Training Strategy for the MK 19 GMG</b>				
Event	Frequency	Rounds Required		
		TP	HE	HEDP
DODIC		B584	B571	B542
Instructional				18
Primary Marksmanship Training	4			
Gunnery Skills Test	4			
Table 1 (Instructional Fire Ex)	2	26 <sup>1</sup>		
Table 2 (Dismount Rng Card Ex)	2	42 <sup>1</sup>		
Table 3 (Mounted Combat Ex)	2	26 <sup>1</sup>		
Table 4 (Night Fire Ex)	2	22 <sup>1</sup>		
Table 5 (Dismnt Rng Card Qual)	2	42 <sup>1</sup>		
Table 6 (Mounted Combat Qual)	2	26 <sup>1</sup>		
Table 7 (Night Fire Qual)	2	22 <sup>1</sup>		
Moving TGT Instructional	2	32		
Assistant Gunner Qual (All Tbls)	2	206 <sup>2</sup>		
Crew Instructional (5 men)	2		96	
Squad/Platoon LFX	2	60		
CALFEX	2	60		
EXEVAL	1		96 <sup>3</sup>	
Major Exercise	1		96 <sup>3</sup>	
JRX	1.33			
BILAT <sup>4</sup>	2.67			
RRF Preparation (G/AG)	1.33	5		
EDRE	1		96 <sup>3</sup>	
<b>Total Rounds Required</b>		<b>1135</b>	<b>480</b>	<b>18</b>

- Notes: 1. Instruction and Record Fire IAW 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.

<b>Table 2-13</b>							
<b>Annual Ammunition Requirement and Training Strategy for the 60-mm Mortar <sup>1</sup></b>							
Rounds Required							
Event	Freq	HE	WP	Illum	IR Illum	SRTR	SRTR Refurb Kits
DODIC		B642	B630	B647	BXXX	B645	B653
Crew Drill/FDC Training	12						
Regimental Mortar Certification Program (RMCP)	2						
Qualification/Sustainment LFX <sup>2,3</sup>	4	30	3	1.5	1.5		
CALFEX	4	6	0.5	0.5	3		
SRTR Training <sup>4</sup>	4					12	13
<b>Total Rounds Required per tube</b>		<b>144</b>	<b>14</b>	<b>8</b>	<b>18</b>	<b>12</b>	<b>13</b>

Notes:

<sup>1</sup> Under the Arms Room Concept for Ranger Regiment Mortar Platoons, each Ranger Battalion maintains eight M224 60mm mortars.

<sup>2</sup> Qualification/Sustainment LFXs are required to validate crew drill and to ensure RTC 350-1 requirement of one LFX quarterly is met.

<sup>3</sup> Mortar Platoon ARTEP (MORTEP) is an annual requirement. One of the quarterly qualification/sustainment LFXs will be externally evaluated as a MORTEP IAW ARTEP 7-90-MTP.

<sup>4</sup> Identifies total SRTR ammunition requirements for annual training. Missions will be fired to standard with SRTR before live firing. B645 is refurbishable using a B653 kit. Tool Kit M880.M766 is required for recovery and refurbishment if M766 cartridge.

<b>Table 2-14</b>							
<b>Annual Ammunition Requirement and Training Strategy for the 81-mm Mortar <sup>1</sup></b>							
Rounds Required							
Event	Freq	HE	WP	Illum	IR Illum <sup>2</sup>	SRTR	SRTR Refurb Kits
DODIC		C868	C870	C871	C484	C876	C045
Crew Drill/FDC Training	12						
Regimental Mortar Certification Program (RMCP)	2						
Qualification/Sustainment LFX <sup>3,4</sup>	4	28	3	3	3		
CALFEX	4	12	1.5	1.5	5		
SRTR Training <sup>5</sup>	4					13	120
<b>Total Rounds Required per tube</b>		<b>160</b>	<b>18</b>	<b>18</b>	<b>18</b>	<b>13</b>	<b>120</b>

Notes:

<sup>1</sup> Under the Arms Room Concept for Ranger Regiment Mortar Platoons, each Ranger Battalion maintains four M252 81mm mortars.

<sup>2</sup> The 81mm IR Illum round is still in development and will not be available for training until FY2002.

<sup>3</sup> Qualification/Sustainment LFXs are required to validate crew drill and to ensure RTC 350-1 requirement of one LFX quarterly is met.

<sup>4</sup> Mortar Platoon ARTEP (MORTEP) is an annual requirement. One of the quarterly qualification/sustainment LFXs will be externally evaluated as a MORTEP IAW ARTEP 7-90-MTP.

<sup>5</sup> Identifies total SRTR ammunition requirements for annual training. Missions will be fired to standard with SRTR before live firing. The C876 is refurbishable using a C045 kit. Recommend 9 refurbishment kits per each C876 (ready to fire) cartridge requested. Tool kit M880.M766 is required for recovery and refurbishment of the C876 cartridge IAW TM 9-1315-252-12&P.

<b>Table 2-15 Annual Ammunition Requirement and Training Strategy for the 120-mm Mortar <sup>1</sup></b>										
Rounds Required										
Event	Freq	120mm				81mm <sup>4</sup>				
		← HE <sup>2</sup>	FRTR	WP	→ IR Illum <sup>3</sup>	← HE	Illum	SRTR	Refurb Kits	→
DODIC		C623	CA09	C624	CXXX	C256	C226	C876	C045	
Crew Drill/FDC Training	12									
Regimental Mortar Certification Program (RMCP)	2									
Qualification/Sustainment LFX <sup>5,6</sup>	4	9	12	3	1.5	8	1.5			
CALFEX	4	10		1.5	2.5					
SRTR Training <sup>7</sup>	4							13	128	
<b>Total Rounds Required per tube</b>		<b>76</b>	<b>48</b>	<b>18</b>	<b>16</b>	<b>32</b>	<b>6</b>	<b>13</b>	<b>128</b>	

Notes:

<sup>1</sup> Under the Arms Room Concept for Ranger Regiment Mortar Platoons, each Ranger Battalion maintains four M120 120mm mortars.

<sup>2</sup> The C788 120mm HE may also be used with the M120 ground mounted mortar.

<sup>3</sup> The 81mm IR Illum round is still in development and will not be available for training until FY2002.

<sup>4</sup> Training using M303 81mm insert device will be conducted with 81mm ammunition - C256, C276, and with the C876 SRTR. The C876 is refurbishable using a C045 kit. Recommend 9 refurbishment kits per each C876 (ready to fire) cartridge requested. Tool kit M880.M766 is required for recovery and refurbishment of the C876 cartridge IAW TM 9-1315-252-12&P.

<sup>5</sup> Qualification/Sustainment LFXs are required to validate crew drill and to ensure RTC 350-1 requirement of one LFX quarterly is met.

<sup>6</sup> Mortar Platoon ARTEP (MORTEP) is an annual requirement. One of the quarterly qualification/sustainment LFXs will be externally evaluated as a MORTEP IAW ARTEP 7-90-MTP.

<sup>7</sup> Identifies total SRTR ammunition requirements for annual training. Missions will be fired to standard with SRTR before live firing.

<b>Table 2-16 Annual Artillery Ammunition Requirement and Training Strategy for CMF 13F Ranger Fire Support Personnel<sup>1</sup></b>					
Event	Frequency	HE	Rounds Required		
			WP	SMK	ILLUM
DODIC		C445	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 <sup>2</sup>	2	6			
<b>Total Rounds Required</b>		<b>72</b>	<b>4</b>	<b>12</b>	<b>42</b>

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 2-17  
Pyrotechnics Requirements**

	Frequency	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
G982 G982	GREN SMK HC	30	30	30	25	25	25		450	50
G940	GREN SMK GRN	20	15	15	15	15	15		250	50
G945	GREN SMK YEL	20	15	15	15	15	15		250	50
G950	GERN SMK RED	2	2	2	2	2	2		32	8
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

<b>Table 2-18 Annual Ammunition Requirement and Training Strategy for the M18A1 Claymore Mine</b>			
Event	Frequency	Inert	Rounds Required M18A1
DODIC		K139	K143
Instructional	1	X	
Squad/Platoon FTX	2	X	
Squad/Platoon LFX	6		3 <sup>1</sup>
CALFEX	2		1 <sup>1</sup>
Company FTX/DFT	1		3 <sup>1</sup>
Battalion FTX	3	X	
EXEVAL	3	X	3 <sup>1</sup>
JRX	1.33		1 <sup>1</sup>
<b>Total Rounds Required</b>			<b>36<sup>1</sup> 1188<sup>2</sup></b>

Notes:

1. Mines per squad (x 33 sqds)
2. Rounds required per battalion

**Table 2-19  
Annual Ammunition Requirement for Ranger Demolition Teams<sup>1</sup>**

Item	DODIC	Rounds per Tm	Munitions Frequency	Annual Requirement
Shape Charge (15 or 40lb)	M420		1	9
Cratering Charge (40 lb)	M039		1	27
Selectable Lightweight Attack Munition <sup>6</sup>	MM15		1	270
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 <sup>2</sup>	M028	2	1	27
Demolitions TNT (1/4 lb) <sup>3</sup>	M030	34	1	918
Demolitions C4 (1 1/4 lb) <sup>3</sup>	M023	67	1	1809
Detonating Cord (ft)	M456	336	1.5 <sup>4</sup>	13608
Time or Safety Fuse (ft)	M670	160	1.5 <sup>4</sup>	6480
Fuse Igniter <sup>5</sup>	M766	28	1	831 <sup>5</sup>
Electric Blasting Cap	M130	62	1	1674
Nonelectric Blasting Cap	M131	42	1	1134
Igniter, Time, Blasting Fuse <sup>5</sup>	MN08	28	1	831 <sup>5</sup>
Holder, Cap Blasting and Shock Tube	ML45		1	300
Cap Blasting, Non-Electric, 30ft (ea) Shock Tube	ML47	8	1	216
Cap Blasting, Non-Electric, 500ft (ea) Shock Tube	MN02	8	1	216
Cap Blasting, Non-Electric, Delay 7.5ft (ea)	MN06	8	1	216

Notes:

1. Each platoon will have three demolition teams for a total of 27 teams per Battalion.
2. Five sections of the Bangalore Kit will be used for each iteration.
3. C4 and TNT can 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 igniters (10 percent) are required for rehearsals and test burns.
6. USASOC procurement item

**TABLE 2-20****Annual Ammunition Requirement and Training Strategy for the Stinger Missile System.**

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

NOTE:

USASOC procurement items after DA Training Stocks are depleted

**JAVELIN 2-21**

Event/Table <sup>1</sup>	Frequency	DODIC
<b>Weapons Training</b>	<b>12</b>	
<b>Gunnery Sustainment</b>	<b>12</b>	
<b>Advanced Tracking</b>	<b>6</b>	
<b>Verification Qualification</b>	<b>4</b>	
<b>SQD/PLT/CO/FTX/STX</b>	<b>8</b>	
<b>BN FTX</b>	<b>2</b>	
<b>EXEVAL (ARTEP)</b>	<b>2</b>	
<b>SQD/PLT LFX<sup>2</sup></b>	<b>6</b>	
<b>CALFEX/ Live Missile <sup>2</sup></b>	<b>1</b>	
<b>Total Live Missiles per Gunner</b>	<b>0</b>	
<b>Live Missile<sup>3,4</sup></b>	<b>1</b>	<b>PL34</b>
<sup>1</sup> No Training Ammunition requirement for any Javelin event other than live fire. <sup>2</sup> Javelin participates in SQD/PLT LFX and CALFEX using MILES and the laser target interface device. <sup>3</sup> Live missile authorizations are 1 per Ranger Company. <sup>4</sup> As missiles become available		