Appendix G

MK19 Qualification Tables

The tables in this appendix are designed to enable the MK19 gunner and assistant gunner to qualify with the weapon.

NOTE: These tables are not for ASV qualification. The ASV tables are under development.

PRIMARY GUNNER, MK19 QUALIFICATION AND ZERO/PRACTICE TABLES

G-1. *Table G-1, page G-2,* is a zero/practice table for the MK19 primary gunner.

Table G-1. Primary Gunner Zero/Practice Table

Task	Condition	Standard	Ammunition	Time
Mount the MK19 on a	Given a mounted MK19, an M3	The gun crew must be	0	2
venicle or a M3 tripod	tripod, an M64 gun mount, a l &E	able to mount the MK19		minutes
	and a selected firing position			
Zero the MK19 using	Given a mounted MK19, a 400-	The gunner must impact	4	No time
a 400-meter vehicle	meter vehicle target, a selected	on the target with at		limit
target	firing position, and 4	least one of the 4		
	40-millimeter training practice	40-millimeter TP rounds.		
	(TP) rounds			
Engage a stationary	Given a mounted MK19, a	The gunner must impact	4	No time
vehicle target at 1,100	vehicle target at 1,100 meters, a	on the vehicle target		limit
meters	selected firing position, and 4	with at least 1 of the 4		
	40-millimeter TP rounds	rounds.		
Engage a stationary	Given a mounted MK19, a	The gunner must impact	4	No time
vehicle target at 1,500	vehicle target at 1,500 meters, a	on the vehicle target		limit
meters	selected firing position, and 4	with at least 1 of the 4		
	40-millimeter TP rounds	rounds.		

Table G-1. Primary Gunner Zero/Practice Table (Continued)

Task	Condition	Standard	Ammunition	Time
Engage a stationary vehicle target at 600 meters	Given a mounted MK19, a vehicle target at 600 meters, a selected firing position, and 4 40-millimeter TP rounds	The gunner must impact on the vehicle target with at least 1 of the 4 rounds.	4	No time limit
Dismount the MK19 from the vehicle or the tripod	Given a mounted MK19 and a selected firing position	The gunner must take the MK19 out of operation from the carrier or tripod.	0	1 minute

PRIMARY GUNNER, INDIVIDUAL MK19 QUALIFICATION (DAY), DISMOUNTED

G-2. *Table G-2* is the MK19 qualification table for the primary gunner, dismounted. The commander may decide to fire using this table (mounted) based on the METT-TC.

Table G-2. Primary Gunner (Day), Dismounted

		-1°C.			
Time	120 seconds		90 seconds	90 seconds	120 seconds
Ammunition	0		Q	4	O
Standard	The gun crew must be able to mount the	MK19 on a vehicle or a tripod.	The gunner must impact on the vehicle target with at least 2 of the 6 rounds.	The gunner must impact on the vehicle target with at least 1 of the 4 rounds.	The gunner must impact on the vehicle target with at least 2 of the 6 rounds.
Condition	Given a mounted MK19, an M3 tripod, an M64 gun	mount, a T&E mechanism, an organic carrier, and a selected firing position	Given a mounted MK19, a selected firing position, 6 40-millimeter TP rounds, and a vehicle target at 800 meters	Given a mounted MK19, a selected firing position, 4 40-millimeter TP rounds, and a vehicle target at 600 meters	Given a mounted MK19, a vehicle target at 1,100 meters, a selected firing position, and 6 40-millimeter TP rounds
Task	Mount the MK19 on an M3 tripod	or a vehicle	Engage a stationary vehicle target at 800 meters	Engage a stationary vehicle target at 600 meters	Engage a stationary vehicle target at 1,100 meters

Table G-2. Primary Gunner (Day), Dismounted (Continued)

Task	Condition	Standard	Ammunition	Time
Engage a	Given a mounted	The gunner must	8	180
stationary	MK19 vehicle target	impact on the		seconds
vehicle target at	at 1,500 meters, a	vehicle target with at		
1,500 meters	selected firing	least 2 of the 8		
	position, and 8	rounds.		
	40-millimeter TP			
	rounds			
Dismount the	Given a mounted	The gunner must	0	09
MK19 from the	MK19 and a selected	take the MK19 out		seconds
vehicle or the	firing position	of operation from		
tripod		the carrier or tripod.		

PRIMARY GUNNER, MK19 QUALIFICATION, MOUNTED

G-3. *Table G-3, page G-6,* is the primary gunner's individual MK19 qualification table, mounted.

Table G-3. Primary Gunner, Mounted

	Collaidel	Standard	Ammunition	Time
Mount the MK19	Given a mounted MK19,	The gun crew must be	0	120 seconds
on a vehicle or a	an organic carrier, an	able to mount the		
M3 tripod	M3 tripod, an M64 gun	MK19 on a vehicle or		
	mount, a T&E	a tripod.		
	mechanism, and a			
	selected firing position			
Engage a (Given a mounted MK19,	The gunner must	4	spuoses 06
stationary vehicle	a selected firing	impact on the vehicle		
target at 400	position, 4 40-millimeter	target with at least 2 of		
meters _	TP rounds, and a	the 4 rounds.		
	vehicle target at 400			
	meters			
Engage a (Given a mounted MK19,	The gunner must	8	120 seconds
stationary vehicle	a selected firing	impact on the vehicle		
target at 1,100	position, 8 40-millimeter	target with at least 2 of		
meters _	TP rounds and a vehicle	the 8 rounds.		
	target at 1,100 meters			

Table G-3. Primary Gunner, Mounted (Continued)

Task	Condition	Standard	Ammunition	Time
Engage troops at	Given a mounted MK19, a	The gunner must	4	eo seconds
600 meters	selected firing position, 4	impact on the target		
	40-millimeter TP rounds, and a	with at least 1 of the		
	troop target at 600 meters	4 rounds		
Engage a stationary	Given a mounted MK19, a	The gunner must	9	120 seconds
vehicle target at	selected firing position, 6	impact on the		
1,500 meters	40-millimeter TP rounds, and a	vehicle target with		
	vehicle target at 1,500 meters	at least 1 of the 6		
		rounds		
Engage a stationary	Given a mounted MK19, a	The gunner must	10	180 seconds
vehicle target at	selected firing position, 10	impact on the		
1,100 meters and	40-millimeter TP rounds, a	vehicle and troop		
troops in the open	vehicle target at 1,100 meters,	targets with at least		
at 600 meters	and a troop target at 600 meters	2 rounds per target		
Dismount the MK19	Given a mounted MK19 and a	The gunner must	0	e0 seconds
from a vehicle or a	selected firing position	take the MK19 out		
tripod.		of operation from		
		the carrier or tripod		

PRIMARY GUNNER, MK19 QUALIFICATION (NIGHT)

G-4. *Table G-4* is the primary gunner's MK19 qualification table for night firing.

Table G-4. Primary Gunner (Night)

Task	Condition	Standard	Ammunition	Time
Mount the AN/	Given a complete	The gunner must	0	120 seconds
TVS-5 to the	AN/TVS-5, an	mount the AN/		
MK19	MK19, an M3, and	TVS-5 on the		
	a T&E mechanism	MK19.		
	or organic carrier			
Use a zeroed	Given a complete	The gunner must	9	spuoses 09
MK19 with an AN/	AN/TVS-5, a	impact the target		
TVS-5 mounted	mounted MK19, a	with at least 2 of		
for observation	selected firing	the 6 rounds.		
and engage a	position, 6			
400-meter vehicle	40-millimeter TP			
target	rounds, and a			
	vehicle target at			
	400 meters.			

Table G-4. Primary Gunner (Night) (Continued)

Task	Condition	Standard	Ammunition	Time
Engage a stationary vehicle target at 600 meters	Given a mounted MK19, a selected firing position, 8 40-millimeter TP rounds, and a vehicle target at 600 meters	The gunner must impact the vehicle target with at least 4 of the 8 rounds.	8	120 seconds
Engage troops in the open at 800 meters	Given a mounted MK19, a selected firing position, 8 40-millimeter TP rounds, and troops in the open at 800 meters	The gunner must impact the troop target with at least 4 of the 8 rounds.	8	120 seconds
Dismount the AN/ TVS-5 from the MK19	Given an MK19 and an AN/ TVS-5	The gun crew must take the AN/ TVS-5 out of operation.	0	120 seconds

ASSISTANT GUNNER, MK19 FIRING TABLE, MOUNTED

G-5. *Table G-5* is for familiarization only.

Table G-5. Assistant Gunner, Mounted

Task	Condition	Standard	Ammunition	Time
Mount the MK19 on	Given a zeroed,	The gun crew must	0	120
a vehicle	mounted, MK19; a T&E	be able to mount the		seconds
	mechanism; an MK64	MK19 on a vehicle		
	gun mount; an organic	or a tripod		
	carrier; and a selected			
	firing position			
Engage a stationary	Given a mounted MK19,	The gunner must	4	90 seconds
vehicle target at 400	a vehicle target at 400	impact the vehicle		
meters	meters, a selected firing	target with at least 2		
	position, and 4	of the 4 rounds		
	40-millimeter TP rounds			
Engage troops in	Given a mounted MK19,	The gunner must	4	e0 seconds
the open at 600	a troop target at 600	impact the troop		
meters	meters, a selected firing	target with at least 1		
	position, and 4	of the 4 rounds.		
	40-millimeter TP rounds			

Table G-5. Assistant Gunner, Mounted (Continued)

Task	Condition	Standard	Ammunition	Time
Engage a	Given a mounted MK19, a	The gunner must	8	120
stationary	vehicle target at 1,100	impact the vehicle		seconds
vehicle target	meters, a selected firing	target with at least 2		
at 1,100	position, and 8 40-millimeter	of the 8 rounds.		
meters	TP rounds			
Engage a	Given a mounted MK19, a	The gunner must	10	180
stationary	vehicle target at 1,100	impact the vehicle		seconds
vehicle target	meters, troops in the open at	and troop targets		
at 1,100	600 meters, a selected firing	with at least 2 rounds		
meters and	position, and 10 40-millimeter	per target.		
troops at 600	TP rounds			
meters				
Dismount the	Given a mounted MK19 and	The gunner must	0	VΝ
MK19 from a	a selected firing position	take the MK19 out of		
vehicle or a		operation from the		
tripod		carrier or tripod.		

ASSISTANT GUNNER, MK19 FIRING TABLE, DISMOUNTED

G-6. *Table G-6* is a dismounted firing table. The commander may decide to fire using *Table G-5* based on the METT-TC.

Table G-6. Assistant Gunner, Dismounted

Task	Condition	Standard	Ammunition	Time
Mount the	Given a mounted MK19, an M3	The gun crew must	0	120
MK19 on a	tripod, an M64 gun mount, a	be able to mount the		seconds
vehicle or an	T&E mechanism, an organic	MK19 on a vehicle		
M3 tripod	carrier, and a selected firing	or a tripod.		
	position			
Engage a	Given a mounted MK19, a	The gunner must	9	09
stationary	vehicle target at 800 meters, a	impact the vehicle		seconds
vehicle target	selected firing position, and 6	target with at least 2		
at 800 meters	40-millimeter TP rounds	of the 6 rounds.		
Engage a	Given a mounted MK19, a	The gunner must	4	06
stationary	vehicle target at 600 meters, a	impact the vehicle		seconds
vehicle target	selected firing position, and 4	target with at least 1		
at 600 meters	40-millimeter TP rounds	of the 4 rounds.		

Table G-6. Assistant Gunner, Dismounted (Continued)

Task	Condition	Standard	Ammunition	Time
Engage a stationary vehicle	Given a mounted MK19, a vehicle target at 1,100	The gunner must impact the vehicle target with at least 2 of	9	90 seconds
target at 1,100 meters	meters, a selected firing position, and 6	the 6 rounds.		
	40-millimeter I P rounds	The committee must improve the	ď	120
stationary vehicle	a vehicle target at 1,100	vehicle target with at least 2 of)	seconds
target at 1,500	meters, a selected firing	the 6 rounds.		
	position, and 6			
	40-millimeter TP rounds			
	Given a mounted MK19	The gunner must impact the	8	120
stationary vehicle	vehicle target at 1,500	vehicle target with at least 2 of		seconds
target at 1,500	meters, a selected firing	the 8 rounds.		
	position, and 8			
	40-millimeter TP rounds			
Dismount the	Given a mounted MK19	The gunner must take the MK19	0	e0 seconds
MK19 from a	and a selected firing	out of operation from the carrier		
vehicle or a tripod	position	or tripod.		

ASSISTANT GUNNER, MK19 FIRING TABLE (NIGHT)

G-7. *Table G-7* is for night firing familiarization only.

Table G-7. Assistant Gunner (Night)

Task	Condition	Standard	Ammunition	Time
Mount the AN/TVS-5 to the MK19	Given a mounted AN/TVS 5 and a T&E mechanism	The gunner must mount the AN/TVS-5 on an MK19.	0	120 seconds
Engage a stationary vehicle target at 600 meter	Given a mounted MK19, a vehicle target at 600 meters, a selected firing position, and 6 40-millimeter TP rounds	The gunner must impact on the vehicle target with at least 1 of the 6 rounds.	g	120 seconds
Engage troops in the open at 800 meters	Given a mounted MK19, troops in the open at 800 meters, a selected firing position, and 6 40-millimeter TP rounds	The gunner must impact on the vehicle target with at least 1 of the 6 rounds.	g	120 seconds
Dismount the AN/TVS-5 from the MK19	Given an MK19 and an AN/TVS-5	The gun crew must take the AN/TVS-5 out of operation within 2 minutes.	0	120 seconds

MK19 SCORECARD

G-8. *Figure G-1* is the scorecard for primary and assistant gunner qualification.

I. Name (La	I. Name (Last, First, Middle Initial)	e Initial)				2. SSN	3.6	3.Grade	4. Unit	ιά	5. Date
		Mounted Table	Table					Dismoun	Dismounted Table		
Rounds	Range (Meters)	Target	Time (Seconds)	Required Hits	Hits	Rounds	Range (Meters)	Target	Time (Seconds)	Required Hits	Hits
4	400	Vehicle	06	2		9	800	Vehicle	06	2	
80	1,100	Vehicle	120	2		4	009	Vehicle	06	-	
4	009	Troops	09	-		9	1,100	Vehicle	120	2	
9	1,500	Vehicle	120	-		80	1,500	Vehicle	180	2	
10	1,100/600	Vehicle/ troops	180	2/2		Rating: Distinguishe	3d = 4 of 4 qu	Rating: Distinguished = 4 of 4 qualified engagements.	ments.	Total hits	
Rating: Distinguished	Rating: Distinguished = 5 of 5 qualified engagements.	fied engagen	nents.	Total hits		Qualified = Unqualified	Qualified = 3 of 4 qualified Unqualified = 2 and below.	Qualified = 3 of 4 qualified engagements. Unqualified = 2 and below.	ıts.		
Sualified = 4 Inqualified =	Qualified = 4 of 5 qualified engagements. Unqualified = 3 and below.	engagement	si.								
	Z	Night-Firing Table	ng Table					Stand	Standards		
Rounds	Range (Meters)	Target	Time (Seconds)	Required Hits	Hits	All standaro Missed 1 sta	Is achieved wandard	All standards achieved within table = distinguished. Missed 1 standard within table = qualified.	istinguished. ied.		
9	400	Vehicle	09	2		two or more	missed stan	two or more missed standards = unqualified	alified.		
80	009	Vehicle	120	4		Overall Rating: Three distinguish	ting: guished table	Overall Rating: Three distinguished tables = distinguished.	hed.		
80	800	Troops	120	4		Two disting	Two distinguished tables = qualified. One distinguished table = unqualified	= qualified. = unqualified.			
Rating: Distinguished	Rating: Distinguished = 3 of 3 qualified engagements.	fied engagen	nents.	Total hits							
Nualified = 2	Qualified = 2 of 3 qualified engagements. Unqualified = 1 and below.	engagement	ú								

Figure G-1. MK19 Qualification Tables