

## 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**

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

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**

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

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

| Task   | Condition  | Standard  | Ammunition | Time        |
|--|--|---|------------|-------------|
| Engage a stationary vehicle target at 1,500 meters | Given a mounted MK19 vehicle target at 1,500 meters, a selected firing position, and 8 40-millimeter TP rounds | The gunner must impact on the vehicle target with at least 2 of the 8 rounds. | 8          | 180 seconds |
| 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          | 60 seconds  |

**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**

| Task   | Condition   | Standard  | Ammunition | Time        |
|--|---|---|------------|-------------|
| Mount the MK19 on a vehicle or a M3 tripod         | Given a mounted MK19, an organic carrier, an M3 tripod, an M64 gun mount, a T&E mechanism, and a selected firing position | The gun crew must be able to mount the MK19 on a vehicle or a tripod.         | 0          | 120 seconds |
| Engage a stationary vehicle target at 400 meters   | Given a mounted MK19, a selected firing position, 4 40-millimeter TP rounds, and a vehicle target at 400 meters           | The gunner must impact on the vehicle target with at least 2 of the 4 rounds. | 4          | 90 seconds  |
| Engage a stationary vehicle target at 1,100 meters | Given a mounted MK19, a selected firing position, 8 40-millimeter TP rounds and a vehicle target at 1,100 meters          | The gunner must impact on the vehicle target with at least 2 of the 8 rounds. | 8          | 120 seconds |

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

| Task  | Condition  | Standard  | Ammunition | Time        |
|---|--|---|------------|-------------|
| Engage troops at 600 meters   | Given a mounted MK19, a selected firing position, 4 40-millimeter TP rounds, and a troop target at 600 meters                                    | The gunner must impact on the target with at least 1 of the 4 rounds                      | 4          | 60 seconds  |
| Engage a stationary vehicle target at 1,500 meters                                      | Given a mounted MK19, a selected firing position, 6 40-millimeter TP rounds, and a vehicle target at 1,500 meters                                | The gunner must impact on the vehicle target with at least 1 of the 6 rounds              | 6          | 120 seconds |
| Engage a stationary vehicle target at 1,100 meters and troops in the open at 600 meters | Given a mounted MK19, a selected firing position, 10 40-millimeter TP rounds, a vehicle target at 1,100 meters, and a troop target at 600 meters | The gunner must impact on the vehicle and troop targets with at least 2 rounds per target | 10         | 180 seconds |
| Dismount the MK19 from a vehicle or a 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          | 60 seconds  |

**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/TVS-5 to the MK19   | Given a complete AN/TVS-5, an MK19, an M3, and a T&E mechanism or organic carrier   | The gunner must mount the AN/TVS-5 on the MK19.                    | 0          | 120 seconds |
| Use a zeroed MK19 with an AN/TVS-5 mounted for observation and engage a 400-meter vehicle target | Given a complete AN/TVS-5, a mounted MK19, a selected firing position, 6 40-millimeter TP rounds, and a vehicle target at 400 meters. | The gunner must impact the target with at least 2 of the 6 rounds. | 6          | 60 seconds  |



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 a vehicle                      | Given a zeroed, mounted, MK19; a T&E mechanism; an MK64 gun mount; an organic carrier; and a selected firing position | The gun crew must be able to mount the MK19 on a vehicle or a tripod      | 0          | 120 seconds |
| Engage a stationary vehicle target at 400 meters | Given a mounted MK19, a vehicle target at 400 meters, a selected firing position, and 4 40-millimeter TP rounds       | The gunner must impact the vehicle target with at least 2 of the 4 rounds | 4          | 90 seconds  |
| Engage troops in the open at 600 meters          | Given a mounted MK19, a troop target at 600 meters, a selected firing position, and 4 40-millimeter TP rounds         | The gunner must impact the troop target with at least 1 of the 4 rounds.  | 4          | 60 seconds  |

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

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

**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**

| <b>Task</b>                                      | <b>Condition</b>  | <b>Standard</b>  | <b>Ammunition</b> | <b>Time</b> |
|--|---|--|-------------------|-------------|
| Mount the MK19 on a vehicle or an M3 tripod      | Given a mounted MK19, an M3 tripod, an M64 gun mount, a T&E mechanism, an organic carrier, and a selected firing position | The gun crew must be able to mount the MK19 on a vehicle or a tripod.      | 0                 | 120 seconds |
| Engage a stationary vehicle target at 800 meters | Given a mounted MK19, a vehicle target at 800 meters, a selected firing position, and 6 40-millimeter TP rounds           | The gunner must impact the vehicle target with at least 2 of the 6 rounds. | 6                 | 60 seconds  |
| 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 the vehicle target with at least 1 of the 4 rounds. | 4                 | 90 seconds  |

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

| Task   | Condition   | Standard   | Ammunition | Time        |
|--|---|--|------------|-------------|
| Engage a stationary vehicle target at 1,100 meters | Given a mounted MK19, a vehicle target at 1,100 meters, a selected firing position, and 6 40-millimeter TP rounds | The gunner must impact the vehicle target with at least 2 of the 6 rounds. | 6          | 90 seconds  |
| Engage a stationary vehicle target at 1,500 meters | Given a mounted MK19, a vehicle target at 1,100 meters, a selected firing position, and 6 40-millimeter TP rounds | The gunner must impact the vehicle target with at least 2 of the 6 rounds. | 6          | 120 seconds |
| Engage a stationary vehicle target at 1,500 meters | Given a mounted MK19 vehicle target at 1,500 meters, a selected firing position, and 8 40-millimeter TP rounds    | The gunner must impact the vehicle target with at least 2 of the 8 rounds. | 8          | 120 seconds |
| Dismount the MK19 from a vehicle or a 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          | 60 seconds  |

**ASSISTANT GUNNER, MK19 FIRING TABLE (NIGHT)**

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

**Table G-7. Assistant Gunner (Night)**

| <b>Task</b>                                     | <b>Condition</b>  | <b>Standard</b>   | <b>Ammunition</b> | <b>Time</b> |
|---|---|---|-------------------|-------------|
| 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. | 6                 | 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. | 6                 | 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.

| MK19 Qualification Scorecard          |                |                    |                |               |                  |  |                |         |                |               |      |
|---------------------------------------|----------------|--------------------|----------------|---------------|------------------|--|----------------|---------|----------------|---------------|------|
| 1. Name (Last, First, Middle Initial) |                | 2. SSN             |                | 3. Grade      |                  | 4. Unit  |                | 5. Date |                |               |      |
| Mounted Table                         |                |                    |                |               | Dismounted Table |  |                |         |                |               |      |
| Rounds                                | Range (Meters) | Target             | Time (Seconds) | Required Hits | Hits             | Rounds   | Range (Meters) | Target  | Time (Seconds) | Required Hits | Hits |
| 4                                     | 400            | Vehicle            | 90             | 2             |                  | 6  | 800            | Vehicle | 90             | 2             |      |
| 8                                     | 1,100          | Vehicle            | 120            | 2             |                  | 4  | 600            | Vehicle | 90             | 1             |      |
| 4                                     | 600            | Troops             | 60             | 1             |                  | 6  | 1,100          | Vehicle | 120            | 2             |      |
| 6                                     | 1,500          | Vehicle            | 120            | 1             |                  | 8  | 1,500          | Vehicle | 180            | 2             |      |
| 10                                    | 1,100/600      | Vehicle/<br>troops | 180            | 2/2           |                  | <b>Rating:</b><br>Distinguished = 5 of 5 qualified engagements.<br>Qualified = 4 of 5 qualified engagements.<br>Unqualified = 3 and below.                             |                |         |                |               |      |
|                                       |                |                    |                | Total hits    |                  |  |                |         |                | Total hits    |      |
| Night-Firing Table                    |                |                    |                |               | Standards        |  |                |         |                |               |      |
| Rounds                                | Range (Meters) | Target             | Time (Seconds) | Required Hits | Hits             | <b>Standards</b><br>All standards achieved within table = distinguished.<br>Missed 1 standard within table = qualified.<br>Two or more missed standards = unqualified. |                |         |                |               |      |
| 6                                     | 400            | Vehicle            | 60             | 2             |                  | <b>Overall Rating:</b><br>Three distinguished tables = distinguished.<br>Two distinguished tables = qualified.<br>One distinguished table = unqualified.               |                |         |                |               |      |
| 8                                     | 600            | Vehicle            | 120            | 4             |                  |  |                |         |                |               |      |
| 8                                     | 800            | Troops             | 120            | 4             |                  |  |                |         |                |               |      |
|                                       |                |                    |                | Total hits    |                  | <b>Rating:</b><br>Distinguished = 3 of 3 qualified engagements.<br>Qualified = 2 of 3 qualified engagements.<br>Unqualified = 1 and below.                             |                |         |                |               |      |

Figure G-1. MK19 Qualification Tables