

# Call for Fire (Instructor Handout & Student Worksheet)

**NO-GO:** Candidate **does not bracket correctly** during adjustment. (Based on EIB doctrine.)

**Purpose.** Request and adjust indirect fire on a target using three transmissions, then adjust to Fire-for-Effect (FFE) and report effects.

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## Task, Conditions, Standards

**Task:** Transmit a call for fire and adjust rounds to FFE.

**Conditions:** Candidate plots/derives data, determines direction and distance, and transmits to FDC using three transmissions. (Wartime context implied by excerpt.)

### Standards:

- **Transmit Call for Fire in three transmissions:**
  - Observer identification and warning order.
  - **Eight-digit grid** and direction (mills) to target (**must be accurate within 250 meters**).
    1. OR **POLAR Mission:** Distance + Direction (meters, mills)
  - Target description, **method of engagement**, and **method of fire and control**.
  - **Adjust Fire** IAW steps below; bracket correctly to a **100-meter** bracket or achieve range-correct spotting; maintain deviation on line; transmit all corrections **in meters**.
  - **Fire for Effect:** Upon achieving the standard, enter FFE and report effects.
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## Candidate Preparation (before first transmission)

1. Plot/Note current position grid. (MGRS - GZD)
  2. Plot/Note enemy position grid/polar.
  3. Calculate direction in mills.
  4. Fill out CFF laminated card.
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## Call for Fire — Three Transmissions

### GRID MISSION:

**First Transmission: Observer identification & warning order.**

- Example: "**FDC, THIS IS VIKING 2-1, ADJUST FIRE, OVER.**"

**Second Transmission: Eight-digit grid to target (accurate within 250 m).**

- Example: "**GRID 16T EG 1234 5678, DIRECTION, 1 600 MILLS, OVER.**"

**Third Transmission: Target description, Method of Engagement, Method of Fire and Control (direction if desired).**

- Example: "**1 x INFANTRY SQUAD IN THE OPEN, FIRE WHEN READY, OVER.**"
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**POLAR MISSION:**

**First Transmission: Observer identification & warning order.**

- Example: "**FDC, THIS IS VIKING 2-1, ADJUST FIRE, POLAR, OVER.**"

**Second Transmission: \*\*Distance and Direction \*\*to target (accurate within 250 m).**

- Example: "**Distance 1000 METERS, DIRECTION, 1 600 MILLS, OVER.**"

**Third Transmission: Target description, Method of Engagement, Method of Fire and Control (direction if desired).**

- Example: "**1 x INFANTRY SQUAD IN THE OPEN, FIRE WHEN READY, OVER.**"
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Call for Fire sub-section:

MESSAGE TO OBSERVER:

The FDC will state their **Unit, # of Rounds, and Target Number.**

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**FDC (MTO):**

**"MESSAGE TO OBSERVER:** MTO as follows, 2 guns, 1 in adjust, 2 in affect, TARGET #**AB1006**, OVER."

MAKE SURE YOU WRITE THE TARGET NUMBER DOWN!

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## Adjust Fire (per provided doctrine)

**Spotting:** For each impact, spot **Right/Left** and **Over/Short** of target.

### Range correction (Over/Short) & Bracketing:

- When the **first range spotting** is observed, make a correction that results in a spotting **in the opposite direction** (start a bracket). **NO-GO** if not bracketed correctly.
- Guide to establish bracket** (use the **estimated round impact distance to target**):
  - > 400 m → Add/Drop 800 m
  - > 200 and < 400 m → Add/Drop 400 m
  - > 100 and < 200 m → Add/Drop 200 m
  - < 100 m → Add/Drop 100 m
  - Add/Drop 50 m and announce **FIRE FOR EFFECT**

**Shot/Shot:** After each correction the Grader will state, "**Shot over**"; Candidate replies "**Shot out**." The grader relocates to the new impact and indicates position; Candidate sends next correction.

**Example:** If first round is **50 mils left** and **250 m short** on a target at **2100 m**:

- Range: to get an **over** next, **ADD 400** to start successive bracketing.
- Correction to FDC: "**RIGHT 100 — ADD 400 — OVER**."

**Continue** splitting the range bracket until a **100-meter bracket** is split or a **range-correct** spotting is observed; keep deviation on line; send all corrections **in meters**.

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## Fire for Effect & End of Mission

- Enter **FFE** when a **100-meter bracket is split** or a **range-correct** spotting is observed.
  - Observe results** and send a brief effects report.
  - Example: "**EOM, TARGET #\_\_\_, TARGET DESTROYED, ESTIMATE TWO CASUALTIES, OVER.**"
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## CFF — Example

**Observer:** "FDC, THIS IS VIKING 2-1, ADJUST FIRE, OVER."

**FDC:** "VIKING 2-1, SEND IT, OVER."

<b>Observer</b>	(2nd):	"GRID	16T	EG	1234
5678,	*****	*****	*****	*****	DIRECTION
1					680
MILLS,	*****	*****	*****	*****	*****
OVER."					

**Observer (3rd):** "INFANTRY SQUAD IN THE OPEN, FIRE WHEN READY, OVER."

**FDC (MTO): "MESSAGE TO OBSERVER: MTO as follows, 2 guns, 1 in adjust, 2 in affect, TARGET #AB1006, OVER."**

**Observer: "ROGER, TARGET #AB1006, OVER."**

**Adjustment Phase**

**FDC: "SHOT OVER."**

**Observer: "SHOT OUT."**

**FDC: "SPLASH OVER."**

*\*impact\**

**Observer: "SPLASH OUT."**

**Observer: "RIGHT 100, ADD 400, OVER."**

**FDC: "SHOT OVER."**

**Observer: "SHOT OUT."**

**FDC: "SPLASH OVER."**

*\*impact\**

**Observer: "SPLASH OUT."**

**Observer: "LEFT 50, DROP 200, OVER."**

*(Continue until 100-m bracket is split or range-correct is observed.)*

**Observer: "FIRE FOR EFFECT, OVER."**

**FDC: "ROGER, FIRE FOR EFFECT, OVER."**

*(FFE results observed)*

**Observer: "EOM, TARGET #AB1006, TARGET NEUTRALIZED, OVER."**

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## Common Errors → Fix

- **Failure to bracket** (NO-GO) → Fix: force opposite-direction range spotting; apply bracket guide.
  - **Saying UP/DOWN instead of ADD/DROP**
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## Pocket Card

### CALL FOR FIRE — THREE TRANSMISSIONS

**1 Observer ID & Warning Order**

**2 LOCATION ( $\leq 250$  m accuracy)**

**3 Target Desc / Method of Fire & Control**

#### **MTO (from FDC)**

- Unit(s) to fire; changes (if any); **# of rounds; target number**
- Acknowledge & record target number

#### **ADJUST FIRE**

- **Bracket Guide:**  $>400 \rightarrow \pm 800$ ;  $>200 < 400 \rightarrow \pm 400$ ;  $>100 < 200 \rightarrow \pm 200$ ;  $<100 \rightarrow \pm 100$ ;  $\pm 50 \rightarrow \text{FFE}$
- **ADD/DROP + LEFT/RIGHT**
- **Shot over / Shot out**

**FIRE FOR EFFECT → EOM, TARGET #\_\_\_\_, [effects], OVER**

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## **Practice Lanes — 5 Situations with Answer Keys (Aligned to Doctrine)**

Each lane provides a short **situation paragraph** followed by a **sample call & adjust** that follows the three-transmission format, includes an **MTO**, uses **meters** for corrections, maintains the **bracket guide**, and ends with **FFE → EOM**. DTGs and grids are placeholders for training maps.

### **Lane 1 — Squad in the Open Near Ridgeline**

**Situation.** From OP VIKING 2-1 you observe an enemy squad moving in the open along a ridgeline saddle. You have clear LOS, map, compass, and binoculars. Estimated range  $\sim 2100$  m, direction 1300 MILLS.

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### **Lane 2 — Trucks at T-Intersection**

**Situation.** Two light trucks halted at a rural T-intersection; dismounts pulling security. Terrain is flat farmland, sparse cover. ENEMY GRID: 16S EG 5492 1239, Direction: 1390 MILLS.

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### **Lane 3 — Mortar Pit Behind Tree Line**

**Situation.** Muzzle flashes observed from a suspected mortar position behind a tree line. Intermittent smoke; crew movement visible. Estimated range  $\sim 2600$  m. Direction: 600 MILLS

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## Lane 4 — Dismounted Patrol Crossing Ford

**Situation.** Ten enemy dismounts moving in file to a shallow river ford; brief halt at near bank. Vegetation low; riverbanks open. Estimated range \~500 m. Direction: 1500 MILLS.

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## Lane 5 — Technical Vehicle in Orchard

**Situation.** A pickup ("technical") with mounted MG idling along an orchard lane; two personnel nearby. Partial foliage; limited crosswind. ENEMY GRID: 16S EG 3426 2356. Direction: 10 MILLS

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# Answer Key — Call for Fire Practice Lanes

Sample calls and adjustments for **Lanes 1-5**. These mirror the three-transmission format, include **MTO**, use **meters** for corrections, apply the **bracket guide**, and end with **FFE → EOM**.

## Lane 1 — Squad in the Open Near Ridgeline

1st: "FDC, THIS IS VIKING 2-1, ADJUST FIRE, OVER."

2nd: "GRID 16T EG 1123 4578, OVER."

3rd: "INFANTRY SQUAD IN THE OPEN, HE/QUICK, AT MY COMMAND, OVER."

FDC (MTO): "MESSAGE TO OBSERVER: 2 GUNS, 1 IN ADJUST, 2 IN EFFECT, TARGET #AB1010, OVER."

Obs: "ROGER, TARGET #AB1010, OVER."

Obs: "DIRECTION 1680, OVER."

Adj: SHOT OVER / SHOT OUT → L 50 mils, S 250 m \*\* → RIGHT 100, ADD 400 → next: R 10, O 300 → LEFT 20, DROP 200 → On line, S 120 → ADD 100 → Range correct → FFE → EOM, TARGET #AB1010, TARGET NEUTRALIZED, OVER\*\*.

## Lane 2 — Trucks at T-Intersection

1st: "FDC, THIS IS VIKING 2-1, ADJUST FIRE, OVER."

2nd: "GRID 16T EG 1290 5325, OVER."

3rd: "TWO LIGHT TRUCKS WITH DISMOUNTS, HE/QUICK, AT MY COMMAND, OVER."

FDC (MTO): "BATTERY ONE ROUND, HE/QUICK, TARGET #AB1011, OVER."

Obs: "ROGER, TARGET #AB1011, OVER."

Obs: "DIRECTION 1420, OVER."

Adj: R 30 mils, O 250 → LEFT 50, DROP 400 → L 10, S 180 → RIGHT 20, ADD 200 → On line, S 80 → ADD 100, FFE → EOM, TARGET #AB1011, TARGET SUPPRESSED, OVER.

## Lane 3 — Mortar Pit Behind Tree Line

1st: "FDC, THIS IS VIKING 2-1, ADJUST FIRE, OVER."

2nd: "GRID 16T EG 1018 5482, OVER."

3rd: "MORTAR POSITION IN TREES, HE/QUICK, AT MY COMMAND, OVER."  
FDC (MTO): "2 GUNS, 1 IN ADJUST, TARGET #AB1012, OVER."  
Obs: "ROGER, TARGET #AB1012, OVER."  
Obs: "DIRECTION 1760, OVER."  
Adj: L 60, S 500 → RIGHT 180, ADD 800 → R 20, O 300 → LEFT 60, DROP 400 → On line, S 150 → ADD 200 →  
Range correct → FFE → EOM TARGET NEUTRALIZED.

## Lane 4 — Dismounted Patrol Crossing Ford

1st: "FDC, THIS IS VIKING 2-1, ADJUST FIRE, OVER."  
2nd: "GRID 16T EG 1376 5199, OVER."  
3rd: "DISMOUNTED SQUAD AT FORD, HE/QUICK, AT MY COMMAND, OVER."  
FDC (MTO): "BATTERY ONE ROUND, TARGET #AB1013, OVER."  
Obs: "ROGER, TARGET #AB1013, OVER."  
Obs: "DIRECTION 1200, OVER."  
Adj: R 20, S 120 →\*\* ADD 200\*\* → On line, O 150 → DROP 200 → Range correct → FFE → EOM TARGET  
SUPPRESSED.

## Lane 5 — Technical Vehicle in Orchard

1st: "FDC, THIS IS VIKING 2-1, ADJUST FIRE, OVER."  
2nd: "GRID 16T EG 1452 5055, OVER."  
3rd: "TECHNICAL VEHICLE WITH CREW, HE/QUICK, AT MY COMMAND, OVER."  
FDC (MTO): "2 GUNS, HE/QUICK, TARGET #AB1014, OVER."  
Obs: "ROGER, TARGET #AB1014, OVER."  
Obs: "DIRECTION 1580, OVER."  
Adj: L 40, O 220 \*\*\*\*\*→ \*\*\*\*RIGHT 100, DROP  
400\*\*\*\*\* → \*\*R 10, S → 150 \*\*\*\*\*ADD 200 → On  
line, S 60 → ADD 100, FFE → EOM TARGET NEUTRALIZED\*.