STUDENT HANDOUT

AERIAL OBSERVATION

FILE No. D-5-562-2 6-562-2 22-562-2 69-562-2



JANUARY 1968

UNITED STATES ARMY AVIATION SCHOOL FORT RUCKER, ALABAMA/FORT STEWART, GEORGIA

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PERFORMANCE OBJECTIVES

AERIAL OBSERVATION

1. KNOWLEDGES:

- a. Without the use of notes or reference material and without error the student will be able to:
 - (1) List the two methods used to conduct aerial observation.
 - (2) List the three categories of aerial observation and give a typical mission example for each category.
 - (3) Write the primary indication of enemy activity detected by the side looking airborne radar and by the infra-red system.
 - (4) Write the proper techniques for flying visual observation missions over jungle, mountains and delta areas.
 - (5) Write the procedures for avoiding small arms fire in VN.
 - (6) Write the procedures for gaining surprise when flying a visual observation mission.
- b. When given a list of six detection devices the student will without error be able to select and underline the three indirect observation capabilities of the OV-1 Mohawk.
- c. When given a list of preflight considerations for aerial observation missions the student will without error be able to rearrange them into the proper sequence.
- 2. SKILLS: None.

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ADVANCE SHEET

AERIAL OBSERVATION

- 1. PURPOSE: This instruction is designed to give the student a knowledge of aerial observation to include definition, the role of Army aviation in aerial observation, units and equipment, mission planning, and aviator-observer team duties and techniques.
- 2. STUDY ASSIGNMENT:
 - a. Study Advance Sheet.
 - b. Read Chap 2-4, FM 1-80.
 - c. Read Chap 9, FM 30-20.
- 3. SPECIAL INSTRUCTIONS: Bring Advance Sheets to class.

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STUDENT OUTLINE

AERIAL OBSERVATION

- 1. Aerial observation methods.
 - a. Direct Visual search.

Indirect. b.

electronic se

- (1) Side looking airborne radar movement.
- (2) Infrared heat.
- (3) Photographic.

(4) Other.

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- 2. Aerial observation missions include -
 - Aerial surveillance looking for horse a. targets ف normally in large area. symplic and continuesur ofjin, by an of anea on dange section
 - Aerial reconnaissance looking for a specific target. ь.
 - (1) Area search - looking for specific target in small area normally a one time mission.
 - (2) Specific search - looking for a specific target at a known location.
 - (3) Route reconnaissance - ground, air and water routes.
 - c. Special observation missions.

(1) Column control. control ground manuerus

· convoy.

(2) CBR survey. meaning the effects

less exposence time less sonce tration

(3) Camouflage inspections. I. the canouflage of your troips

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restablishing

(4) Contact reconnaissance. with last troops

(5) Topographic survey.

napping

- 3. Observation aircraft and equipment.
 - Aircraft with direct observation capability LOH, H-13, H-23,
 0-1, all aircraft can be used for direct observation.

b. OV-1 (Mohawk) series.

3 pines of trail

(1) OV-1A - (visual search).

(2) OV-18 (Slar). rada - for moment of 3 mpl or 5 kph. it must have the mass ga jeep, or 16 sampon 90 KM ranje. (3) OV-IC (IR). infrased no way to detect, ground data lite, divist over fly, heat differential (weather and folicize),

4. Observation units.

- a. Direct observation units.
- Ь. Indirect observation units.
- 5. Briefings.

a. Types.

general + pre-flight

b. Format.

what Wha N here How

6. Pre-flight planning.

a. Map and photo selection.

- b. Terrain evaluation.
- Flight planning. c.

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d. Crew coordination.

7. Observation consideration in VN.

a. Terrain environment.

b. Nature of targets.

c. Identification.

d. Air Defense environment.

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PERFORMANCE CHECK

AERIAL OBSERVATION

1. What are the two aerial observation methods?

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2. What are the three categories of aerial observation missions?

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3. List a mission example for each category,

a.

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SH-8

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- 4. An observation mission flown daily over a particular province or sector would be a mission.
- 5. An observation mission flown to detect a Viet Cong unit or specific activity would be a mission.
- 6. The method of observation you will use when flying the observation helicopter or 0-1 Bird Dog will be _____.

From the following list, select and underline the indirect observation capabilities of the OV-1 Mohawk.

a. Radio direction finding.

b. Radar.

- c. Photographic.
- d. Sound ranging.
- (e) Infra red.
- f. Flash ranging.
- 8.) What is the principal indication of enemy activity detected by the side looking airborne radar (SLAR)? <u>3 MPH JEEP'S Man-</u>by infrared? <u>Just children</u>.
- 9. What is the primary reason for using a "Guide to Aviation Briefings"?

What is the purpose of a debriefing? 10.

- 11. Which of the following is the correct sequence for preflight considerations for an aerial observation mission?
 - a. Flight planning, terrain evaluation, crew coordination, map and photo selection

ip and photo selection, terrain evaluation, flight plann Ameddingstion.

- c. Map and photo selaction, filter plenning, terrain evaluation, crew coordination.
- d. Flight planning, map and photo selection, terrain evaluation, crew coordination.

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- When observing in the mountains you should approach the target by flying <u>reveac</u> if possible.
- 14. Some visual observation missions are flown at <u>1500</u> feet or higher to avoid <u>small are fire</u> in Vietnam.

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13.

15. What is the best method for surprising the Viet Cong on a visual observation mission? fly low more other of the midgle

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