



**Federal Aviation
Administration**

Initial En Route Qualification Training

**Lesson 16
Vertical Separation
End-of-Lesson Test**

Course 50148001

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Initial En Route Training

Lesson 16

Vertical Separation

End-of-Lesson Test – Variation 1

Lesson Objective:

On an End-of-Lesson Test and in accordance with FAA Order JO 7110.65, you will identify standards, procedures, and phraseology as they apply to vertical separation.

Directions: Items 1 through 14 are multiple choice. Indicate your selection by circling the appropriate letter.

1. One thousand feet of vertical separation is required at and below _____.
 - A. FL430
 - B. FL410
 - C. FL390
 - D. FL350

2. The minimum vertical separation required for aircraft above FL410 through FL600 is _____ feet.
 - A. 500
 - B. 1,000
 - C. 2,000
 - D. 5,000

VERTICAL SEPARATION
End-of-Lesson Test – Variation 1 (Continued)

3. To provide minimum vertical separation (when pilots are **NOT** executing pilot's discretion descent), assign an altitude _____.
- A. only after the aircraft has reported at or passing through another altitude
 - B. after the aircraft previously at that altitude has been issued a climb/descent clearance and is observed or reports leaving the altitude
 - C. to an aircraft only after the aircraft previously at that altitude has reported another altitude
 - D. only to an aircraft that has reported at an altitude that provides minimum separation
4. Which of the following is an example of phraseology to obtain altitude reports?
- A. "REPORT LEAVING ODD ALTITUDES."
 - B. "CALL LEAVING SEVEN THOUSAND."
 - C. "VERIFY LEAVING EVEN FLIGHT LEVELS."
 - D. "ADVISE WHEN YOU PASS SIX THOUSAND."
5. What is the phraseology to assign a higher altitude?
- A. "CLIMB TO AND MAINTAIN (altitude)."
 - B. "CLIMB AND MAINTAIN (altitude)."
 - C. "CLIMB TO (altitude)."
 - D. "MAINTAIN (altitude)."

VERTICAL SEPARATION
End-of-Lesson Test – Variation 1 (Continued)

6. What is the phraseology to determine the altitude of an aircraft if it is known to be operating below the lowest usable flight level?
- A. "SAY ALTITUDE."
 - B. "REPORT PRESENT ALTITUDE."
 - C. "WHAT IS YOUR PRESENT ALTITUDE?"
 - D. "VERIFY ALTITUDE."
7. N1234N has been issued a descent from 12,000 feet to 6,000 feet. N4567B is at 14,000 feet. N4567B can be assigned 12,000 feet when N1234N reports leaving _____ feet.
- A. 9,000
 - B. 10,000
 - C. 11,000
 - D. 12,000
8. Vertical separation is applied between aircraft experiencing severe turbulence by _____.
- A. increasing minimums by 500 feet between aircraft altitudes
 - B. increasing minimums by 1,000 feet between aircraft altitudes
 - C. assigning an altitude only after an aircraft previously at that altitude has reported at or passing through another altitude separated from the first by the appropriate minimum
 - D. assigning an altitude only after an aircraft previously at that altitude has reported at or passing through another altitude separated from the first by 2,000 feet

VERTICAL SEPARATION
End-of-Lesson Test – Variation 1 (Continued)

9. The rule for applying vertical separation between military aircraft conducting aerial refueling and other traffic is: _____.
- A. Assign the refueling aircrafts' altitude to other aircraft only after refueling aircraft report at or leaving an altitude that provides separation
 - B. Increase minimums by 1,000 feet for each aircraft conducting refueling
 - C. When the receiver aircraft reports leaving its assigned altitudes, those altitudes may be used for other traffic
 - D. When the tanker aircraft reports leaving its block of altitudes, those altitudes are again available
10. N74Y has been cleared to descend from 8,000 feet to 4,000 feet at pilot's discretion. A higher aircraft may be assigned 8,000 feet when N74Y reports _____ feet.
- A. leaving 8,000
 - B. leaving 7,000
 - C. leaving 6,000
 - D. reaching 4,000
11. N1234A has been issued a descent clearance from 12,000 feet to cross MHZ VORTAC at 6,000 feet. N4567B is at 14,000 feet. N4567B may be assigned 10,000 feet when N1234A reports leaving _____ feet.
- A. 12,000
 - B. 11,000
 - C. 10,000
 - D. 9,000

VERTICAL SEPARATION
End-of-Lesson Test – Variation 1 (*Continued*)

12. N12B, at 6,000 feet, has been cleared for approach. The earliest an altitude of 6,000 feet can be assigned to another aircraft is when N12B reports _____.
- A. leaving 6,000 feet
 - B. leaving 5,000 feet
 - C. leaving 4,000 feet
 - D. on the ground
13. Aircraft operating at or below FL290 must be vertically separated from the upper/lower limits of active Special Use or ATC Assigned Airspace by at least _____ feet.
- A. 2,000
 - B. 1,500
 - C. 1,000
 - D. 500
14. Aircraft operating above FL290 must be vertically separated from the upper/lower limits of active Special Use or ATC Assigned Airspace by at least _____ feet.
- A. 1,500
 - B. 2,000
 - C. 500
 - D. 1,000