



**Federal Aviation
Administration**

Initial En Route Qualification Training

**Lesson 32
Beacon Code Assignment
Procedures
End-of-Lesson Test**

Course 50148001

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Initial En Route Training

Lesson 32

Beacon Code Assignment

End-of-Lesson Test – Variation 1

Lesson 32 Objectives:

On an End-of-Lesson Test and in accordance with FAA Orders JO 7110.65, JO 7110.66, and FAR, Part 91.215, you will identify:

- ATC transponder and altitude reporting equipment requirements and use
 - Beacon code assignment requirements and procedures
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Directions: Items 1 through 9 are multiple choice. Indicate your selection by circling the appropriate letter. Item 10 is matching. Match the information in column A with the correct beacon code in column B.

1. All aircraft operating _____, and below floor of Class A airspace, excluding at and below 2,500 feet Above Ground Level (AGL), must be equipped with an operable transponder with Mode C altitude reporting capability.
 - A. at or above 10,000 feet
 - B. below 10,000 feet
 - C. at or above 15,000 feet
 - D. below 15,000 feet
2. The four-digit code that may be assigned to an aircraft participating in a Search and Rescue (SAR) mission is _____.
 - A. 7700
 - B. 7600
 - C. 1277
 - D. 1177

BEACON CODE ASSIGNMENT
End-of-Lesson Test – Variation 1 *(Continued)*

3. If the Mode C or transponder fails _____, you must advise a manager and coordinate with the next controller.
- A. at or above 10,000 MSL
 - B. at or below 10,000 MSL
 - C. above 13,000 MSL
 - D. at or below 13,000 MSL
4. Beacon codes are assigned to _____-equipped aircraft.
- A. Mode S
 - B. Mode 3/A
 - C. Mode B
 - D. Mode 4/C
5. Beacon codes that do **NOT** end in the numerals “00” are _____.
- A. mixed
 - B. nondiscrete
 - C. discrete
 - D. required
6. Give first preference to use of _____ codes.
- A. nondiscrete
 - B. discrete
 - C. mixed
 - D. required

BEACON CODE ASSIGNMENT
End-of-Lesson Test – Variation 1 *(Continued)*

7. Request a code change from an aircraft **NOT** in your area of responsibility only if _____.
A. coordinated at the time of handoff or specified in a Letter of Agreement
B. specified in a Letter of Agreement or workload makes it necessary
C. coordinated at the time of handoff or workload makes it necessary
D. specified in a Letter of Agreement or mandated by TMU
8. Assign this code if a pilot declares an emergency and is **NOT** radar-identified:
A. 1277
B. 1177
C. 7600
D. 7700
9. Unless your area of responsibility includes only Class A airspace, the radar team must continuously monitor Mode 3/A radar beacon codes assigned for use by aircraft within your area of responsibility, **EXCEPT** _____.
A. Code 4000
B. Code 1255
C. Code 1277
D. Code 1266

BEACON CODE ASSIGNMENT
End-of-Lesson Test – Variation 1 *(Continued)*

10. In each blank, write the beacon code from Column B that corresponds to the information in column A.

	Column A	Column B
_____	A. A VFR departure NOT working an ATC facility	1200
		1255
		1277
		3300
_____	B. A pilot-declared emergency that is NOT radar-identified	4000
		4400
_____	C. An aircraft experiencing a loss of two-way radio communication	7000
		7400
		7600
_____	D. A fast maneuvering military aircraft	7700