

**TEMA:** 0291 FLT/DSP - (CHAP. 02) EQUIPMENT, NAVIGATION,  
AND FACILITIES

**COD PREG:** PREG20084781  
**PREGUNTA:** Figures 142 and 143  
To which aircraft position does HSI presentation "A" correspond?  
**RPTA:** A

**OPCION A:** 1.  
**OPCION B:** 8.  
**OPCION C:** 11.

PREG20084777 Figures 140/141  
To which aircraft position(s) does HSI presentation "I" correspond? C

**OPCION A:** 4.  
**OPCION B:** 12.  
**OPCION C:** 11.

PREG20084778 Figures 142/143  
To which aircraft position does HSI presentation "D" correspond? C

**OPCION A:** 4.  
**OPCION B:** 15.  
**OPCION C:** 17.

PREG20084779 Figures 142 and 143  
To which aircraft position does HSI presentation "E" correspond? B

**OPCION A:** 5.  
**OPCION B:** 6.  
**OPCION C:** 15.

PREG20084780 Figures 142 and 143  
To which aircraft position does HSI presentation "F" correspond? C

**OPCION A:** 10.  
**OPCION B:** 14.  
**OPCION C:** 16.

PREG20084782 Figures 142 and 143  
To which aircraft position does HSI presentation "B" correspond? C

**OPCION A:** 9.  
**OPCION B:** 13.  
**OPCION C:** 19.

PREG20084789	What can a pilot expect if the pitot system ram air input and drain hole are blocked by ice?	A
<b>OPCION A:</b>	The airspeed indicator may act as an altimeter.	
<b>OPCION B:</b>	The airspeed indicator will show a decrease with an increase in altitude.	
<b>OPCION C:</b>	No airspeed indicator change will occur during climbs or descents.	
PREG20084784	What would be the identification when a VORTAC is undergoing routine maintenance and is considered unreliable?	C
<b>OPCION A:</b>	A test signal, "TESTING", is sent every 30 seconds.	
<b>OPCION B:</b>	Identifier is preceded by "M" and an intermittent "OFF" flag would appear.	
<b>OPCION C:</b>	The identifier would be removed.	
PREG20084785	Which indication may be received when a VOR is undergoing maintenance and is considered unreliable?	A
<b>OPCION A:</b>	Coded identification T-E-S-T.	
<b>OPCION B:</b>	Identifier is preceded by "M" and an intermittent "OFF" flag might appear.	
<b>OPCION C:</b>	An automatic voice recording stating the VOR is out-of-service for maintenance.	
PREG20084695	Which rule applies to the use of cockpit voice recorder erasure feature?	B
<b>OPCION A:</b>	All recorded information may be erased, except for the last 30 minutes prior to landing.	
<b>OPCION B:</b>	Any information more than 30 minutes old may be erased.	
<b>OPCION C:</b>	All recorded information may be erased, unless the DGAC needs to be notified of an occurrence.	
PREG20084696	For the purpose of testing the flight recorder system,	B
<b>OPCION A:</b>	a minimum of 1 hour of the oldest recorded data must be erased to get a valid test.	
<b>OPCION B:</b>	a total of 1 hour of the oldest recorded data accumulated at the time of testing may be erased.	
<b>OPCION C:</b>	a total of no more than 1 hour of recorded data may be erased.	
PREG20084697	A cockpit voice recorder must be operated	A
<b>OPCION A:</b>	from the start of the before starting engine checklist to completion of final checklist upon termination of flight.	
<b>OPCION B:</b>	from the start of the before starting engine checklist to completion of checklist prior to engine shutdown.	
<b>OPCION C:</b>	when starting to taxi for takeoff to the engine shutdown checklist after termination of the flight.	

PREG20084698	When an air carrier flight is operated under IFR or over-the-top on "victor airways," which navigation equipment is required to be installed in duplicate?	A
<b>OPCION A:</b>	VOR.	
<b>OPCION B:</b>	VOR and DME.	
<b>OPCION C:</b>	ADF.	
PREG20084699	When must an air carrier airplane be DME equipped?	B
<b>OPCION A:</b>	In Class E airspace for all IFR or VFR on Top operations.	
<b>OPCION B:</b>	Whenever VOR navigational receivers are required.	
<b>OPCION C:</b>	For flights at or above FL 180.	
PREG20084700	When a pilot plans a flight using NDB NAVAIDS, which rule applies?	C
<b>OPCION A:</b>	The airplane must have sufficient fuel to proceed, by means of VOR NAVAIDS, to a suitable airport and land.	
<b>OPCION B:</b>	The pilot must be able to return to the departure airport using other navigation radios.	
<b>OPCION C:</b>	The airplane must have sufficient fuel to proceed, by means of VOR NAVAIDS, to a suitable airport and complete an instrument approach by use of the remaining airplane radio system.	
PREG20084701	What action should be taken by the pilot in command of a transport category airplane if the airborne weather radar becomes inoperative en route on an IFR flight for which weather reports indicate possible thunderstorms?	B
<b>OPCION A:</b>	Request radar vectors from ATC to the nearest suitable airport and land.	
<b>OPCION B:</b>	Proceed in accordance with the approved instructions and procedures specified in the operations manual for such an event.	
<b>OPCION C:</b>	Return to the departure airport if the thunderstorms have not been encountered, and there is enough fuel remaining.	
PREG20084702	If an air carrier airplane is flying IFR using a single ADF navigation receiver and the ADF equipment fails, the flight must be able to	A
<b>OPCION A:</b>	proceed safely to a suitable airport using VOR aids and complete an instrument approach by use of the remaining airplane radio system.	
<b>OPCION B:</b>	continue to the destination airport by means of dead reckoning navigation.	
<b>OPCION C:</b>	proceed to a suitable airport using VOR aids, complete an instrument approach and land.	
PREG20084703	If an air carrier airplane's airborne radar is inoperative and thunderstorms are forecast along the proposed route of flight, an airplane may be dispatched only	C
<b>OPCION A:</b>	when able to climb and descend VFR and maintain VFR/OT en route.	
<b>OPCION B:</b>	in VFR conditions.	

**OPCION C:** in day VFR conditions.

PREG20084704 An air carrier airplane's airborne radar must be in satisfactory operating condition prior to dispatch, if the flight will be A

**OPCION A:** conducted under VFR conditions at night with scattered thunderstorms reported en route.

**OPCION B:** carrying passengers, but not if it is "all cargo".

**OPCION C:** conducted IFR, and ATC is able to radar vector the flight around areas of weather.

PREG20084705 While on an IFR flight in controlled airspace, the failure of which unit will precipitate an immediate report to ATC? C

**OPCION A:** One engine, on a multiengine aircraft.

**OPCION B:** Airborne radar.

**OPCION C:** DME.

PREG20084722 Identify the runway distance remaining markers. A

**OPCION A:** Signs with increments of 1,000 feet distance remaining.

**OPCION B:** Red markers laterally placed across the runway at 3,000 feet from the end.

**OPCION C:** Yellow marker laterally placed across the runway with signs on the side denoting distance to end.

PREG20084723 What are the indications of Precision Approach Path Indicator (PAPI)? A

**OPCION A:** High - white, on glidepath - red and white; low - red.

**OPCION B:** High - white, on glidepath - green; low - red.

**OPCION C:** High - white and green, on glidepath - green; low - red.

PREG20084710 Where are the routes listed that require special navigation equipment? A

**OPCION A:** Certificate holder's, Operations Specifications.

**OPCION B:** International Aeronautical Information Manual.

**OPCION C:** International Notices To Airmen.

PREG20084725 What are the indications of the pulsating VASI? B

**OPCION A:** High - pulsing white, on glidepath - green, low - pulsing red.

**OPCION B:** High - pulsing white, on glidepath - steady white, slightly below glide slope steady red, low - pulsing red.

**OPCION C:** High - pulsing white, on course and on glidepath - steady white, off course but on glidepath - pulsing white and red; low - pulsing red.

PREG20084743 Figure 131 A  
What is the runway distance remaining at "D" for a daytime takeoff on runway 9?

**OPCION A:** 3,000 feet.

**OPCION B:** 2,500 feet.

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**OPCION C:** 1,500 feet.

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PREG20084744      Figure 131      B  
What is the runway distance remaining at "B" for a nighttime takeoff on runway 9?

**OPCION A:** 1,000 feet.

**OPCION B:** 2,000 feet.

**OPCION C:** 2,500 feet.

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PREG20084745      Figure 131      C  
What is the runway distance remaining at "F" for a daytime takeoff on runway 9?

**OPCION A:** 2,000 feet.

**OPCION B:** 1,500 feet.

**OPCION C:** 1,000 feet.

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PREG20084746      Figure 131      A  
What is the runway distance remaining at "C" for a nighttime takeoff on runway 9?

**OPCION A:** 1,000 feet.

**OPCION B:** 1,500 feet.

**OPCION C:** 1,800 feet.

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PREG20084747      Which component associated with the ILS is identified by the last two letters of the localizer group?      B

**OPCION A:** Inner marker.

**OPCION B:** Middle compass locator.

**OPCION C:** Outer compass locator.

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PREG20084748      Which component associated with the ILS is identified by the first two letters of the localizer identification group?      C

**OPCION A:** Inner marker.

**OPCION B:** Middle compass locator.

**OPCION C:** Outer compass locator.

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PREG20084749      What aural and visual indications should be observed over an ILS inner marker?      A

**OPCION A:** Continuous dots at the rate of six per second.

**OPCION B:** Continuous dashes at the rate of two per second.

**OPCION C:** Alternate dots and dashes at the rate of two per second.

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PREG20084750      What aural and visual indications should be observed over an ILS middle marker?      C

**OPCION A:** Continuous dots at the rate of six per second.

**OPCION B:** Continuous dashes at the rate of two per second.

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**OPCION C:** Alternate dots and dashes at the rate of two per second.

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PREG20084786 What DME indications should a pilot observe when directly over a VORTAC site at 12,000 feet? B

**OPCION A:** 0 DME miles.

**OPCION B:** 2 DME miles.

**OPCION C:** 2.3 DME miles.

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PREG20084787 Where does the DME indicator have the greatest error between the ground distance and displayed distance to the VORTAC? A

**OPCION A:** High altitudes close to the VORTAC.

**OPCION B:** Low altitudes close to the VORTAC.

**OPCION C:** Low altitudes far from the VORTAC.

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PREG20084788 During an en route descent in a fixed-thrust and fixed-pitch attitude configuration, both the ram air input and drain hole of the pitot system become completely blocked by ice. What airspeed indication can be expected? B

**OPCION A:** Increase in indicated airspeed.

**OPCION B:** Decrease in indicated airspeed.

**OPCION C:** Indicated airspeed remains at the value prior to icing.

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PREG20084776 Figures 140/141 To which aircraft position(s) does HSI presentation "H" correspond? B

**OPCION A:** 8.

**OPCION B:** 1.

**OPCION C:** 2.

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PREG20084783 Figures 142 and 143 To which aircraft position does HSI presentation "C" correspond? C

**OPCION A:** 6.

**OPCION B:** 7.

**OPCION C:** 12.

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PREG20084775 Figures 140/141 To which aircraft position(s) does HSI presentation "G" correspond? B

**OPCION A:** 7 only.

**OPCION B:** 7 and 11.

**OPCION C:** 5 and 13.

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PREG20084768 Figure 139 Which OBS selection on the No.2 NAV would center the CDI and change the ambiguity indication to a TO? C

**OPCION A:** 166.

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**OPCION B:** 346.

**OPCION C:** 354.

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PREG20084773      Figures 140/141      B  
To which aircraft position(s) does HSI presentation "E" correspond?

**OPCION A:** 8 only.

**OPCION B:** 8 and 3.

**OPCION C:** 3 only.

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PREG20084761      Figures 136/138      C  
Which displacement from the localizer centerline and glide slope at the 1,300-foot point from the runway is indicated?

**OPCION A:** 21 feet below the glide slope and approximately 320 feet to the right of the runway centerline.

**OPCION B:** 28 feet above the glide slope and approximately 250 feet to the left of the runway centerline.

**OPCION C:** 21 feet above the glide slope and approximately 320 feet to the left of the runway centerline.

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PREG20084762      Figures 137/138      A  
Which displacement from the localizer and glide slope at the outer marker is indicated?

**OPCION A:** 1,550 feet to the left of the localizer centerline and 210 feet below the glide slope.

**OPCION B:** 1,550 feet to the right of the localizer centerline and 210 feet above the glide slope.

**OPCION C:** 775 feet to the left of the localizer centerline and 420 feet below the glide slope.

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PREG20084763      Figure 139      A  
What is the lateral displacement of the aircraft in nautical miles from the radial selected on the No.1 NAV?

**OPCION A:** 5.0 NM.

**OPCION B:** 7.5 NM.

**OPCION C:** 10.0 NM.

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PREG20084764      Figure 139      C  
On which radial is the aircraft as indicated by the No.1 NAV?

**OPCION A:** R-175.

**OPCION B:** R-165.

**OPCION C:** R-345.

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PREG20084765	Figure 139 Which OBS selection on the No.1 NAV would center the CDI and change the ambiguity indication to a TO?	B
OPCION A:	175.	
OPCION B:	165.	
OPCION C:	345.	
PREG20084774	Figures 140/141 To which aircraft position(s) does HSI presentation "F" correspond?	A
OPCION A:	4.	
OPCION B:	11.	
OPCION C:	5.	
PREG20084766	Figure 139 What is the lateral displacement in degrees from the desired radial on the No.2 NAV?	C
OPCION A:	1°.	
OPCION B:	2°.	
OPCION C:	4°.	
PREG20084760	Figures 135/138 Which displacement from the localizer and glide slope at the 1.9 NM point is indicated?	B
OPCION A:	710 feet to the left of the localizer centerline and 140 feet below the glide slope.	
OPCION B:	710 feet to the right of the localizer centerline and 140 feet above the glide slope.	
OPCION C:	430 feet to the right of the localizer centerline and 28 feet above the glide slope.	
PREG20084769	Figures 140/141 To which aircraft position(s) does HSI presentation "A" correspond?	A
OPCION A:	9 and 6.	
OPCION B:	9 only.	
OPCION C:	6 only.	
PREG20084770	Figures 140/141 To which aircraft position(s) does HSI presentation "B" correspond?	B
OPCION A:	11.	
OPCION B:	5 and 13.	
OPCION C:	7 and 11.	
PREG20084771	Figures 140/141 To which aircraft position(s) does HSI presentation "C" correspond?	C



**OPCION A:** 9.  
**OPCION B:** 4.  
**OPCION C:** 12.

PREG20084772 Figures 140/141 C  
To which aircraft position(s) does HSI presentation "D" correspond?  
**OPCION A:** 1.  
**OPCION B:** 10.  
**OPCION C:** 2.

PREG20084767 Figure 139 A  
Which OBS selection on the No.2 NAV would center the CDI?  
**OPCION A:** 174.  
**OPCION B:** 166.  
**OPCION C:** 335.

PREG20084790 If both the ram air input and drain hole of the pitot system are blocked A  
by ice, what airspeed indication can be expected?  
**OPCION A:** No variation of indicated airspeed in level flight if large power changes are made.  
**OPCION B:** Decrease of indicated airspeed during a climb.  
**OPCION C:** Constant indicated airspeed during a descent.

PREG20084822 When using GPS for navigation and instrument approaches, a required A  
alternate airport must have  
**OPCION A:** an approved instrument approach procedure, besides GPS, that is expected to be operational and available at the ETA.  
**OPCION B:** a GPS approach that is expected to be operational and available at the ETA.  
**OPCION C:** authorization to fly approaches under IFR using GPS avionics.

PREG20084792 En route at FL270, the altimeter is set correctly. On descent, a pilot C  
fails to set the local altimeter setting of 30.57. If the field elevation is 650 feet, and the altimeter is functioning properly, what will it indicate upon landing?  
**OPCION A:** 585 feet.  
**OPCION B:** 1,300 feet.  
**OPCION C:** Sea level.

PREG20084811 If an airborne checkpoint is used to check the VOR system for IFR A  
operations, the maximum bearing error permissible is  
**OPCION A:** plus or minus 6°.  
**OPCION B:** plus 6° or minus 4°.  
**OPCION C:** plus or minus 4°.

PREG20084812	A function of the minimum equipment list is to indicate required items which	C
<b>OPCION A:</b>	are required to be operative for overwater passenger air carrier flights.	
<b>OPCION B:</b>	may be inoperative for a one-time ferry flight of a large airplane to a maintenance base.	
<b>OPCION C:</b>	may be inoperative prior to beginning a flight in an aircraft.	
PREG20084813	When is DME required for an instrument flight?	A
<b>OPCION A:</b>	At or above 24,000 feet MSL if VOR navigational equipment is required.	
<b>OPCION B:</b>	In terminal radar service areas.	
<b>OPCION C:</b>	Above 12,500 feet MSL.	
PREG20084814	Information obtained from flight data and cockpit voice recorders shall be used only for determining	C
<b>OPCION A:</b>	who was responsible for any accident or incident.	
<b>OPCION B:</b>	evidence for use in civil penalty or certificate action.	
<b>OPCION C:</b>	possible causes of accidents or incidents.	
PREG20084815	If Receiver Autonomous Integrity Monitoring (RAIM) is not available when setting up for GPS approach, the pilot should	C
<b>OPCION A:</b>	continue to the MAP and hold until the satellites are recaptured.	
<b>OPCION B:</b>	proceed as cleared to the IAF and hold until satellite reception is satisfactory.	
<b>OPCION C:</b>	select another type of approach using another type of navigation aid.	
PREG20084751	What aural and visual indications should be observed over an ILS outer marker?	B
<b>OPCION A:</b>	Continuous dots at the rate of six per second.	
<b>OPCION B:</b>	Continuous dashes at the rate of two per second.	
<b>OPCION C:</b>	Alternate dots and dashes at the rate of two per second.	
PREG20084752	Within what frequency range does the localizer transmitter of the ILS operate?	B
<b>OPCION A:</b>	108.10 to 118.10 MHz.	
<b>OPCION B:</b>	108.10 to 111.95 MHz.	
<b>OPCION C:</b>	108.10 to 117.95 MHz.	
PREG20084753	If installed, what aural and visual indications should be observed over the ILS back course marker?	A
<b>OPCION A:</b>	A series of two dot combinations, and a white marker beacon light.	
<b>OPCION B:</b>	Continuous dashes at the rate of one per second, and a white marker beacon light.	
<b>OPCION C:</b>	A series of two dash combinations, and a white marker beacon light.	

PREG20084754	The lowest ILS Category II minimums are	B
OPCION A:	DH 50 feet and RVR 1,200 feet.	
OPCION B:	DH 100 feet and RVR 1,200 feet.	
OPCION C:	DH 150 feet and RVR 1,500 feet.	
PREG20084724	What does the pulsating VASI consist of?	C
OPCION A:	Three-light system, two pulsing and one steady.	
OPCION B:	Two-light projectors, one pulsing and one steady.	
OPCION C:	One-light projector, pulsing white when above glide slope or red when more than slightly below glide slope, steady white when on glide slope, steady red for slightly below glide path.	
PREG20084742	Figure 131 What is the runway distance remaining at "A" for a nighttime takeoff on runway 9?	B
OPCION A:	2,000 feet.	
OPCION B:	3,000 feet.	
OPCION C:	3,500 feet.	
PREG20084741	Figure 131 What is the runway distance remaining at "E" for a daytime takeoff on runway 9?	B
OPCION A:	1,500 feet.	
OPCION B:	2,000 feet.	
OPCION C:	2,500 feet.	
PREG20084755	How does the SDF differ from an ILS LOC?	A
OPCION A:	SDF - 6° or 12° wide, ILS - 3° to 6°.	
OPCION B:	SDF - offset from runway plus 3°, ILS - aligned with runway.	
OPCION C:	SDF - 15° usable off course indications, ILS - 35°.	
PREG20084739	Figure 130 What is the runway distance remaining at "C" for a daytime takeoff on runway 9?	B
OPCION A:	2,500 feet.	
OPCION B:	2,000 feet.	
OPCION C:	1,500 feet.	
PREG20084740	Figure 130 What is the runway distance remaining at "D" for a daytime takeoff on runway 9?	B
OPCION A:	500 feet.	
OPCION B:	1,000 feet.	
OPCION C:	1,500 feet.	

PREG20084727	A pilot of a high-performance airplane should be aware that flying a steeper-than-normal VASI glide slope angle may result in	B
OPCION A:	a hard landing.	
OPCION B:	increased landing rollout.	
OPCION C:	landing short of the runway threshold.	
PREG20084728	The higher glide slope of the three-bar VASI is intended for use by	C
OPCION A:	high performance aircraft.	
OPCION B:	helicopters.	
OPCION C:	high cockpit aircraft.	
PREG20084729	What is the purpose of REIL?	A
OPCION A:	Identification of a runway surrounded by a preponderance of other lighting.	
OPCION B:	Identification of the touchdown zone to prevent landing short.	
OPCION C:	Establish visual descent guidance information during an approach.	
PREG20084730	Identify REIL.	C
OPCION A:	Amber lights for the first 2,000 feet of runway.	
OPCION B:	Green lights at the threshold and red lights at far end of runway.	
OPCION C:	Synchronized flashing lights laterally at each side of the runway threshold.	
PREG20084731	What does the tri-color VASI consist of?	B
OPCION A:	Three light bars; red, green, and amber.	
OPCION B:	One light projector with three colors; red, green, and amber.	
OPCION C:	Three glide slopes, each a different color; red, green, and amber.	
PREG20084732	Which color on a tri-color VASI is a "high" indication?	B
OPCION A:	Red.	
OPCION B:	Amber.	
OPCION C:	Green.	
PREG20084726	What is the advantage of a three-bar VASI?	B
OPCION A:	Pilots have a choice of glide angles.	
OPCION B:	A normal glide angle is afforded both high and low cockpit aircraft.	
OPCION C:	The three-bar VASI is much more visible and can be used at a greater height.	
PREG20084734	Which color on a tri-color VASI is a "low" indication?	A
OPCION A:	Red.	
OPCION B:	Amber.	

**OPCION C:** Green.

PREG20084735 What does the Precision Approach Path Indicator (PAPI) consist of? B

**OPCION A:** Row of four lights parallel to the runway; red, white, and green.

**OPCION B:** Row of four lights perpendicular to the runway; red and white.

**OPCION C:** One light projector with two colors; red and white.

PREG20084736 Figure 129 A

What is the runway distance remaining at "A" for a daytime takeoff on runway 9?

**OPCION A:** 1,000 feet.

**OPCION B:** 1,500 feet.

**OPCION C:** 2,000 feet.

PREG20084737 Figure 130 B

What is the runway distance remaining at "A" for a nighttime takeoff on runway 9?

**OPCION A:** 1,000 feet.

**OPCION B:** 2,000 feet.

**OPCION C:** 2,500 feet.

PREG20084738 Figure 130 C

What is the runway distance remaining at "B" for a daytime takeoff on runway 9?

**OPCION A:** 2,000 feet.

**OPCION B:** 2,500 feet.

**OPCION C:** 3,000 feet.

PREG20084733 Which color on a tri-color VASI is an "on course" indication? C

**OPCION A:** Red.

**OPCION B:** Amber.

**OPCION C:** Green.

PREG20084810 During a VOT check of the VOR equipment, the course deviation B

indication centers on 356° with the TO/FROM reading FROM. This VOR equipment may

**OPCION A:** be used if 4° is entered on a correction card and subtracted from all VOR courses.

**OPCION B:** be used during IFR flights, since the error is within limits.

**OPCION C:** not be used during IFR flights, since the TO/FROM should read TO.

PREG20084816 Without Receiver Autonomous Integrity Monitoring (RAIM) A

capability, the accuracy of the GPS derived

**OPCION A:** altitude information should not be relied upon to determine aircraft altitude.

<b>OPCION B:</b>	position is not affected.	
<b>OPCION C:</b>	velocity information should be relied upon to determine aircraft groundspeed.	
PREG20084818	If a visual descent point (VDP) is published on a GPS approach, it	A
<b>OPCION A:</b>	will be coded in the waypoint sequence and identified using ATD.	
<b>OPCION B:</b>	will not be included in the sequence of waypoints.	
<b>OPCION C:</b>	must be included in the normal waypoints.	
PREG20084819	Figure 112 While arcing left on the IAH 10 DME Arc, the pilot experiences a left crosswind component. Where should the bearing pointer be referenced relative to the 90° (wingtip) position to maintain the 10 DME range?	C
<b>OPCION A:</b>	On the left wingtip reference.	
<b>OPCION B:</b>	Behind the left wingtip reference.	
<b>OPCION C:</b>	Ahead of the left wingtip reference.	
PREG20084820	Authorization to conduct any GPS operation under IFR requires that	C
<b>OPCION A:</b>	the equipment be approved in accordance with TSO C-115a.	
<b>OPCION B:</b>	the pilot must review appropriate weather, aircraft flight manual (AFM), and operation of the particular receiver.	
<b>OPCION C:</b>	procedures must be established for use in the event that the loss of RAIM capability is predicted to occur.	
PREG20084821	Authorization to conduct any GPS operation under IFR requires that	B
<b>OPCION A:</b>	the pilot review appropriate weather, aircraft flight manual (AFM), and operation of the particular GPS receiver.	
<b>OPCION B:</b>	air carrier and commercial operators must meet the appropriate provisions of their approved operations specifications.	
<b>OPCION C:</b>	the equipment be approved in accordance with TSO C-115a.	
PREG20084759	Which "rule-of-thumb" may be used to approximate the rate of descent required for a 3° glidepath?	A
<b>OPCION A:</b>	5 times groundspeed in knots.	
<b>OPCION B:</b>	8 times groundspeed in knots.	
<b>OPCION C:</b>	10 times groundspeed in knots.	
PREG20084817	Overriding an automatically selected sensitivity during a GPS approach will	A
<b>OPCION A:</b>	cancel the approach mode annunciation.	
<b>OPCION B:</b>	require flying point-to-point on the approach to comply with the published approach procedure.	
<b>OPCION C:</b>	have no effect if the approach is flown manually.	

PREG20084809	What record shall be made by the pilot performing a VOR operational check?	B
<b>OPCION A:</b>	The date, frequency of VOR or VOT, number of hours flown since last check, and signature in the aircraft log.	
<b>OPCION B:</b>	The date, place, bearing error, and signature in the aircraft log or other record.	
<b>OPCION C:</b>	The date, approval or disapproval, tach reading, and signature in the aircraft log or other permanent record.	
PREG20084808	While flying in controlled airspace under IFR, the ADF fails. What action is required?	C
<b>OPCION A:</b>	Descend below Class A airspace.	
<b>OPCION B:</b>	Advise dispatch via company frequency.	
<b>OPCION C:</b>	Notify ATC immediately.	
PREG20084807	While flying IFR in controlled airspace, if one of the two VOR receivers fails, which course of action should the pilot-in-command follow?	B
<b>OPCION A:</b>	No call is required if one of the two VOR receivers is operating properly.	
<b>OPCION B:</b>	Advise ATC immediately.	
<b>OPCION C:</b>	Notify the dispatcher via company frequency.	
PREG20084794	If the ambient temperature is warmer than standard at FL350, what is the density altitude compared to pressure altitude?	B
<b>OPCION A:</b>	Lower than pressure altitude.	
<b>OPCION B:</b>	Higher than pressure altitude.	
<b>OPCION C:</b>	Impossible to determine without information on possible inversion layers at lower altitudes.	
PREG20084795	If the ambient temperature is colder than standard at FL310, what is the relationship between true altitude and pressure altitude?	B
<b>OPCION A:</b>	They are both the same, 31,000 feet.	
<b>OPCION B:</b>	True altitude is lower than 31,000 feet.	
<b>OPCION C:</b>	Pressure altitude is lower than true altitude.	
PREG20084796	Which pressure is defined as station pressure?	B
<b>OPCION A:</b>	Altimeter setting.	
<b>OPCION B:</b>	Actual pressure at field elevation.	
<b>OPCION C:</b>	Station barometric pressure reduced to sea level.	
PREG20084797	How will the airspeed indicator react if the ram air input to the pitot head is blocked by ice, but the drain hole and static port are not?	A
<b>OPCION A:</b>	Indication will drop to zero.	

<b>OPCION B:</b>	Indication will rise to the top of the scale.	
<b>OPCION C:</b>	Indication will remain constant but will increase in a climb.	
PREG20084798	What type service should normally be expected from an En Route Flight Advisory Service?	A
<b>OPCION A:</b>	Weather advisories pertinent to the type of flight, intended route of flight, and altitude.	
<b>OPCION B:</b>	Severe weather information, changes in flight plans, and receipt of position reports.	
<b>OPCION C:</b>	Radar vectors for traffic separation, route weather advisories, and altimeter settings.	
PREG20084799	Below FL 180, en route weather advisories should be obtained from an FSS on	B
<b>OPCION A:</b>	122.1 MHz.	
<b>OPCION B:</b>	122.0 MHz.	
<b>OPCION C:</b>	123.6 MHz.	
PREG20084800	For what purpose may cockpit voice recorders and flight data recorders NOT be used?	B
<b>OPCION A:</b>	Determining causes of accidents and occurrences under investigation by the DGTA.	
<b>OPCION B:</b>	Determining any certificate action, or civil penalty, arising out of an accident or occurrence.	
<b>OPCION C:</b>	Identifying procedures that may have been conducive to any accident.	
PREG20084801	How long is cockpit voice recorder and flight recorder data kept, in the event of an accident or occurrence resulting in terminating the flight?	A
<b>OPCION A:</b>	60 days.	
<b>OPCION B:</b>	90 days.	
<b>OPCION C:</b>	30 días.	
PREG20084802	What is the maximum permissible variation between the two bearing indicators on a dual VOR system when checking one VOR against the other?	A
<b>OPCION A:</b>	4° on the ground and in flight.	
<b>OPCION B:</b>	6° on the ground and in flight.	
<b>OPCION C:</b>	6° and in flight and 4° on the ground.	
PREG20084803	Which entry shall be recorded by the person performing a VOR operational check?	C
<b>OPCION A:</b>	Frequency, radial and facility used, and bearing error.	
<b>OPCION B:</b>	Flight hours and number of days since last check, and bearing error.	
<b>OPCION C:</b>	Date, place, bearing error, and signature.	



PREG20084804	Which checks and inspections of flight instruments or instrument systems must be accomplished before an aircraft can be flown under IFR?	A
<b>OPCION A:</b>	VOR within 30 days and altimeter systems and transponder within 24 calendar months.	
<b>OPCION B:</b>	ELT test within 30 days, altimeter systems within 12 calendar months, and transponder within 24 calendar months.	
<b>OPCION C:</b>	Airspeed indicator within 24 calendar months, altimeter system within 24 calendar months, and transponder within 12 calendar months.	
PREG20084805	What action is necessary when a partial loss of ILS receiver capability occurs while operating in controlled airspace under IFR?	C
<b>OPCION A:</b>	Continue as cleared and file a written report to the DGTA if requested.	
<b>OPCION B:</b>	If the aircraft is equipped with other radios suitable for executing an instrument approach, no further action is necessary.	
<b>OPCION C:</b>	Report the malfunction immediately to ATC.	
PREG20084806	What action should be taken if one of the two VHF radios fail while IFR in controlled airspace?	A
<b>OPCION A:</b>	Notify ATC immediately.	
<b>OPCION B:</b>	Squawk 7600.	
<b>OPCION C:</b>	Monitor the VOR receiver.	
PREG20084791	When setting the altimeter, pilots should disregard effects of nonstandard atmospheric temperatures and pressures.	A
<b>OPCION A:</b>	effects of nonstandard atmospheric temperatures and pressures.	
<b>OPCION B:</b>	corrections for static pressure systems.	
<b>OPCION C:</b>	corrections for instrument error.	
PREG20084758	When is the course deviation indicator (CDI) considered to have a full-scale deflection?	B
<b>OPCION A:</b>	When the CDI deflects from full-scale left to full-scale right, or vice versa.	
<b>OPCION B:</b>	When the CDI deflects from the center of the scale to full-scale left or right.	
<b>OPCION C:</b>	When the CDI deflects from half-scale left to half-scale right, or vice versa.	
PREG20084793	What is corrected altitude (approximate true altitude)?	B
<b>OPCION A:</b>	Pressure altitude corrected for instrument error.	
<b>OPCION B:</b>	Indicated altitude corrected for temperature variation from standard.	
<b>OPCION C:</b>	Density attitude corrected for temperature variation from standard.	
PREG20084756	What functions are provided by ILS?	C
<b>OPCION A:</b>	Azimuth, distance, and vertical angle.	
<b>OPCION B:</b>	Azimuth, range, and vertical angle.	

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**OPCION C:** Guidance, range, and visual information.

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PREG20084711 An air carrier that elects to use an Inertial Navigational System (INS) must meet which equipment requirement prior to takeoff on a proposed flight? **B**

**OPCION A:** The INS system must consist of two operative INS units.

**OPCION B:** Only one INS is required to be operative, if a Doppler Radar is substituted for the other INS.

**OPCION C:** A dual VORTAC/ILS system may be substituted for an inoperative INS.

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PREG20084712 Figure 125 **B**  
Which RMI illustration indicates the aircraft to be flying outbound on the magnetic bearing of 235° FROM the station? (Wind 050° at 20 knots.)

**OPCION A:** 2.

**OPCION B:** 3.

**OPCION C:** 4.

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PREG20084713 Figure 125 **B**  
What is the magnetic bearing TO the station as indicated by illustration 4?

**OPCION A:** 285°.

**OPCION B:** 055°.

**OPCION C:** 235°.

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PREG20084714 Figure 125 **A**  
Which RMI illustration indicates the aircraft is southwest of the station and moving closer TO the station?

**OPCION A:** 1.

**OPCION B:** 2.

**OPCION C:** 3.

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PREG20084715 Figure 125 **B**  
Which RMI illustration indicates the aircraft is located on the 055° radial of the station and heading away from the station?

**OPCION A:** 1.

**OPCION B:** 2.

**OPCION C:** 3.

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PREG20084709 Routes that require a flight navigator are listed in the **C**  
**OPCION A:** International Notices To Airmen.  
**OPCION B:** International Aeronautical Information Manual.  
**OPCION C:** Certificate holder's, Operations Specifications.

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PREG20084716	What is the advantage of HIRL or MIRL on an IFR runway as compared to a VFR runway?	B
<b>OPCION A:</b>	Lights are closer together and easily distinguished from surrounding lights.	
<b>OPCION B:</b>	Amber lights replace white on the last 2,000 feet of runway for a caution zone.	
<b>OPCION C:</b>	Alternate red and white lights replace the white on the last 3,000 feet of runway for a caution zone.	
PREG20084718	Identify runway remaining lighting on centerline lighting systems.	B
<b>OPCION A:</b>	Amber lights from 3,000 feet to 1,000 feet, then alternate red and white lights to the end.	
<b>OPCION B:</b>	Alternate red and white lights from 3,000 feet to 1,000 feet, then red lights to the end.	
<b>OPCION C:</b>	Alternate red and white lights from 3,000 feet to the end of the runway.	
PREG20084719	Identify taxi turnoff lights associated with the centerline lighting system.	B
<b>OPCION A:</b>	Alternate blue and white lights curving from the centerline of the runway to the centerline of the taxiway.	
<b>OPCION B:</b>	Green lights curving from the centerline of the runway to the centerline of the taxiway.	
<b>OPCION C:</b>	Blue lights curving from the centerline of the runway to the centerline of the taxiway.	
PREG20084720	How can a pilot identify a military airport at night?	C
<b>OPCION A:</b>	Green, yellow, and white beacon light.	
<b>OPCION B:</b>	White and red beacon light with dual flash of the white.	
<b>OPCION C:</b>	Green and white beacon light with dual flash of the white.	
PREG20084721	How can a pilot identify a lighted heliport at night?	A
<b>OPCION A:</b>	Green, yellow, and white beacon light.	
<b>OPCION B:</b>	White and red beacon light with dual flash of the white.	
<b>OPCION C:</b>	Green and white beacon light with dual flash of the white.	
PREG20084757	How does the LDA differ from an ILS LOC?	B
<b>OPCION A:</b>	LDA. 6° or 12° wide, ILS - 3° to 6°.	
<b>OPCION B:</b>	LDA. offset from runway plus 3°, ILS - aligned with runway.	
<b>OPCION C:</b>	LDA. 15° usable off course indications, ILS - 35°.	
PREG20084717	Identify touchdown zone lighting (TDZL).	A
<b>OPCION A:</b>	Two rows of transverse light bars disposed symmetrically about the runway centerline.	
<b>OPCION B:</b>	Flush centerline lights spaced at 50-foot intervals extending through the touchdown zone.	

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**OPCION C:** Alternate white and green centerline lights extending from 75 feet from the threshold through the touchdown zone.

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PREG20084708 An air carrier operates a flight in VFR over-the-top conditions. What radio navigation equipment is required to be a dual installation? A

**OPCION A:** VOR.

**OPCION B:** VOR and ILS.

**OPCION C:** VOR and DME.

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PREG20084707 Which equipment requirement must be met by an air carrier that elects to use a dual Inertial Navigation System (INS) on a proposed flight? C

**OPCION A:** The dual system must consist of two operative INS units.

**OPCION B:** A dual VORTAC/ILS system may be substituted for an inoperative INS.

**OPCION C:** Only one INS is required to be operative, if a Doppler Radar is substituted for the other INS.

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PREG20084706 Which airplanes are required to be equipped with a ground proximity warning glide slope deviation alerting system? A

**OPCION A:** All turbine powered airplanes.

**OPCION B:** Passenger-carrying turbine-powered airplanes only.

**OPCION C:** Large turbine-powered airplanes only.

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PREG20084693 Who must the crew of a domestic or flag air carrier airplane be able to communicate with, under normal conditions, along the entire route (in either direction) of flight? C

**OPCION A:** ARINC.

**OPCION B:** Any FSS.

**OPCION C:** Appropriate dispatch office.

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PREG20084694 Information recorded during normal operations of a cockpit voice recorder in a large pressurized airplane with four reciprocating engines A

**OPCION A:** may all be erased or otherwise obliterated except for the last 30 minutes.

**OPCION B:** may be erased or otherwise obliterated except for the last 30 minutes prior to landing.

**OPCION C:** may all be erased, as the voice recorder is not required on an aircraft with reciprocating engines.

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