

# Multi-Engine Instrument Rating (ME-IR) Theory Practice Test (Sample)

## Study Guide



**Everything you need from our exam experts!**

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# Introduction

Preparing for a certification exam can feel overwhelming, but with the right tools, it becomes an opportunity to build confidence, sharpen your skills, and move one step closer to your goals. At Examzify, we believe that effective exam preparation isn't just about memorization, it's about understanding the material, identifying knowledge gaps, and building the test-taking strategies that lead to success.

This guide was designed to help you do exactly that.

Whether you're preparing for a licensing exam, professional certification, or entry-level qualification, this book offers structured practice to reinforce key concepts. You'll find a wide range of multiple-choice questions, each followed by clear explanations to help you understand not just the right answer, but why it's correct.

The content in this guide is based on real-world exam objectives and aligned with the types of questions and topics commonly found on official tests. It's ideal for learners who want to:

- Practice answering questions under realistic conditions,
- Improve accuracy and speed,
- Review explanations to strengthen weak areas, and
- Approach the exam with greater confidence.

We recommend using this book not as a stand-alone study tool, but alongside other resources like flashcards, textbooks, or hands-on training. For best results, we recommend working through each question, reflecting on the explanation provided, and revisiting the topics that challenge you most.

**Remember:** successful test preparation isn't about getting every question right the first time, it's about learning from your mistakes and improving over time. Stay focused, trust the process, and know that every page you turn brings you closer to success.

Let's begin.

# How to Use This Guide

**This guide is designed to help you study more effectively and approach your exam with confidence. Whether you're reviewing for the first time or doing a final refresh, here's how to get the most out of your Examzify study guide:**

## **1. Start with a Diagnostic Review**

**Skim through the questions to get a sense of what you know and what you need to focus on. Your goal is to identify knowledge gaps early.**

## **2. Study in Short, Focused Sessions**

**Break your study time into manageable blocks (e.g. 30 - 45 minutes). Review a handful of questions, reflect on the explanations.**

## **3. Learn from the Explanations**

**After answering a question, always read the explanation, even if you got it right. It reinforces key points, corrects misunderstandings, and teaches subtle distinctions between similar answers.**

## **4. Track Your Progress**

**Use bookmarks or notes (if reading digitally) to mark difficult questions. Revisit these regularly and track improvements over time.**

## **5. Simulate the Real Exam**

**Once you're comfortable, try taking a full set of questions without pausing. Set a timer and simulate test-day conditions to build confidence and time management skills.**

## **6. Repeat and Review**

**Don't just study once, repetition builds retention. Re-attempt questions after a few days and revisit explanations to reinforce learning. Pair this guide with other Examzify tools like flashcards, and digital practice tests to strengthen your preparation across formats.**

**There's no single right way to study, but consistent, thoughtful effort always wins. Use this guide flexibly, adapt the tips above to fit your pace and learning style. You've got this!**

## Questions

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- 1. What are the colors and spacing of taxiway centre lights?**
  - A. Red; spacing 20 m**
  - B. Yellow; spacing 50 m**
  - C. Green; spacing no more than 60 m**
  - D. Blue; spacing 40 m**
  
- 2. In a direct entry, what is the initial action?**
  - A. Fly to the beacon, then carry on in the hold**
  - B. Fly to the beacon and immediately depart**
  - C. Turn inbound immediately**
  - D. Begin an abrupt climb**
  
- 3. Which document authorizes radio communications on the aircraft?**
  - A. OPS Manual**
  - B. Radio License**
  - C. Flight Plan**
  - D. ARC**
  
- 4. When planning a route, what determines the need for a take-off alternate?**
  - A. Weather at the departure airport and aircraft weight**
  - B. Number of engines**
  - C. Color of the aircraft**
  - D. Pilot's license type**
  
- 5. What is the general weather requirement around ETA for departure, en-route, destination and alternates?**
  - A. Weather above the minimums 1 hour before and 1 hour after ETA**
  - B. Weather must be perfect**
  - C. Weather must be VFR**
  - D. Weather minima do not apply**

- 6. If the destination runway is not aligned with the instrument approach, which statement is true?**
- A. Higher workload**
  - B. Visibility may need to be better**
  - C. Minima may be more stringent**
  - D. All of the above**
- 7. Which condition is most commonly associated with windshear?**
- A. Large pressure changes**
  - B. Altitude near the friction layer causing different wind speeds**
  - C. Turbulence**
  - D. Thunderstorms**
- 8. If the IR has expired, what must the applicant do before taking the proficiency test again?**
- A. Training at home study**
  - B. Flight school not required**
  - C. Training at an ATO**
  - D. You can reattempt immediately**
- 9. Where do you access NOTAM service?**
- A. NATS website**
  - B. ARINC NOTAM service**
  - C. FAA NOTAM system**
  - D. Jeppesen iNOTAM**
- 10. In IFR operations, if two-way radio contact is lost in controlled airspace, what transponder setting and action are recommended?**
- A. Squawk 7600, maintain the last reported heading, altitude and speed for 20 minutes, then proceed by your route and land at your destination preferably within 30 minutes of your published ETA**
  - B. Squawk 7600, continue with your last clearance and land immediately**
  - C. Squawk 7500 and declare an emergency**
  - D. Squawk 7700 and try to re-establish contact**

## Answers

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1. C
2. A
3. B
4. A
5. A
6. D
7. D
8. C
9. A
10. A

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## **Explanations**

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**1. What are the colors and spacing of taxiway centre lights?**

- A. Red; spacing 20 m
- B. Yellow; spacing 50 m
- C. Green; spacing no more than 60 m**
- D. Blue; spacing 40 m

Taxiway centreline lighting provides a continuous visual path along the taxiway. The lights are green, which distinguishes the taxiway centerline from runway lighting and other markings. The spacing is set so that you don't lose the line in typical taxiing speeds and visibility; a standard guideline is that the distance between successive centerline lights should not exceed 60 meters. This makes it easy to follow the path, even in reduced visibility. Red lights are used for runway or boundary indications, blue lights mark taxiway edges, and yellow is not the standard color for taxiway centreline lights, so that option doesn't fit.

**2. In a direct entry, what is the initial action?**

- A. Fly to the beacon, then carry on in the hold**
- B. Fly to the beacon and immediately depart
- C. Turn inbound immediately
- D. Begin an abrupt climb

Direct entry into a hold means you go straight to the holding fix and then start the holding pattern by turning to the outbound leg immediately after crossing the fix. So the initial action is to reach the beacon and then carry on in the hold—the aircraft begins the racetrack on the outbound course. There's no delay, no immediate turn toward the inbound leg, and no abrupt climb as part of the entry. The sequence focuses on arriving at the fix and then initiating the outbound leg to establish the hold.

**3. Which document authorizes radio communications on the aircraft?**

- A. OPS Manual
- B. Radio License**
- C. Flight Plan
- D. ARC

Radio transmissions from an aircraft require a license specifically for the radio station. This authorization is issued by the national communications or aviation authority and covers the aircraft's radio equipment, including what frequencies may be used, transmission power, and the designated call sign. Without this license, operating the onboard transmitter would be illegal and could lead to penalties, and ATC communications would not be legally protected. Other documents serve different purposes: the operations manual outlines procedures for the operator, not authorization to transmit; a flight plan is just a record of intended route and timing for ATC coordination; and an ARC relates to airworthiness or registration, not the legal permission to use radio equipment.

**4. When planning a route, what determines the need for a take-off alternate?**

- A. Weather at the departure airport and aircraft weight**
- B. Number of engines**
- C. Color of the aircraft**
- D. Pilot's license type**

Take-off alternate planning focuses on the chance you might not be able to complete the planned flight after lifting off, so you need a reachable alternative safe landing. The need to designate a take-off alternate hinges on whether the conditions at takeoff allow a safe departure and whether you can reach a suitable destination or alternate if something goes wrong on the initial leg. Weather at the departure airport directly affects takeoff feasibility—ceiling, visibility, winds, and other conditions determine if you can meet required takeoff performance with the planned weight. The aircraft's weight changes performance: heavier weight lowers climb rate and gradient, increases required runway and distance to a safe altitude, and can limit if you can reach an alternate after takeoff. If, at the planned weight and under forecast departure conditions, a safe takeoff and climb to an alternate aren't assured, you must plan a take-off alternate. The other options (engine count, color of the aircraft, pilot's license type) don't determine this planning requirement.

**5. What is the general weather requirement around ETA for departure, en-route, destination and alternates?**

- A. Weather above the minimums 1 hour before and 1 hour after ETA**
- B. Weather must be perfect**
- C. Weather must be VFR**
- D. Weather minima do not apply**

The key idea is that IFR planning uses forecast weather that meets the published minima for each leg of the flight, evaluated in a window around your estimated time of arrival. Specifically, you need weather that is above the published minima for departure, en-route, destination, and any alternate, looked at a time window from one hour before to one hour after your ETA. This gives you a practical margin for the actual conditions you'll face when you arrive, land, or decide on an alternate. In practice, that means if the forecast in that window shows ceilings and visibility at or above the approach minima for the destination (and the alternate, if applicable), you're considered to have acceptable weather for planning purposes. If the forecast doesn't meet those minima, you'd typically delay, cancel, or select an alternate with acceptable minima. The other options aren't correct because: weather doesn't have to be perfect; IFR operations are not based on VFR weather alone, and minima do apply to ensure safe operation and the ability to complete a legal approach.

**6. If the destination runway is not aligned with the instrument approach, which statement is true?**

- A. Higher workload**
- B. Visibility may need to be better**
- C. Minima may be more stringent**
- D. All of the above**

When the destination runway isn't aligned with the instrument approach, you typically can't land straight ahead from that approach and must perform a circle-to-land or otherwise maneuver to align with the runway. This adds workload because you're handling an additional phase of flight: maintaining the correct approach path, managing speed and configuration, and tracking your position precisely while performing the circle, all inside controlled airspace and with obstacle considerations in the vicinity of the airport. Because you're relying on visual references to complete the circle and land, the published weather minimums are more restrictive than for a straight-in approach. The higher minima reflect the increased risk during maneuvering in the airport environment and the greater need for sufficient visibility to execute the circle safely and land. Visibility requirements tend to be higher for circling than for straight-in, reinforcing the need for clear cues for positioning and clearance during the turn and approach. Put together, these factors—increased workload, stricter minima, and higher visibility requirements—are all true when the runway isn't aligned with the instrument approach.

**7. Which condition is most commonly associated with windshear?**

- A. Large pressure changes**
- B. Altitude near the friction layer causing different wind speeds**
- C. Turbulence**
- D. Thunderstorms**

Windshear is a rapid change in wind speed or direction over a short distance, which can surprise pilots during critical phases of flight. The condition most commonly linked to windshear is thunderstorms, because convective storms generate strong updrafts, intense downdrafts, and gust fronts that create abrupt, localized shifts in wind as air moves out of the storm system. Microbursts within thunderstorms can produce very large changes in wind over just a few hundred meters or seconds, especially near the ground, making thunderstorms the primary source of windshear incidents in practice. Other factors like turbulence can accompany windshear, but windshear itself is the sharp change in wind, not just turbulence. Large pressure changes aren't the direct cause of windshear, and while winds near the surface due to friction can create low-level wind gradients, they are not as consistently associated with windshear as the powerful, rapid wind shifts produced by thunderstorms.

**8. If the IR has expired, what must the applicant do before taking the proficiency test again?**

- A. Training at home study**
- B. Flight school not required**
- C. Training at an ATO**
- D. You can reattempt immediately**

When the instrument rating has expired, you lose currency and must re-establish it by completing a proficiency check, which is conducted through an Approved Training Organization. Training at an ATO ensures you receive the structured refreshment of knowledge and practical skills under qualified supervision, with the appropriate examiner involved. Self-study at home or training outside an ATO does not satisfy the re-currency requirement, and you can't reattempt the proficiency test immediately without first completing the required proficiency check process.

**9. Where do you access NOTAM service?**

- A. NATS website**
- B. ARINC NOTAM service**
- C. FAA NOTAM system**
- D. Jeppesen iNOTAM**

NOTAMs are time-sensitive aeronautical information published by the national NOTAM office and must be accessed through the official dissemination channel. For UK operations, that channel is the NATS NOTAM service on their website. It's the authoritative source for current, active NOTAMs and is the reference pilots rely on during preflight planning. Other options like ARINC, the FAA system, or Jeppesen iNOTAM exist as distribution or commercial products, and they may republish or deliver NOTAM data, but the primary access point for UK NOTAMs is the NATS site.

**10. In IFR operations, if two-way radio contact is lost in controlled airspace, what transponder setting and action are recommended?**

- A. Squawk 7600, maintain the last reported heading, altitude and speed for 20 minutes, then proceed by your route and land at your destination preferably within 30 minutes of your published ETA**
- B. Squawk 7600, continue with your last clearance and land immediately**
- C. Squawk 7500 and declare an emergency**
- D. Squawk 7700 and try to re-establish contact**

When two-way radio failure happens in controlled IFR airspace, you follow a predictable plan that keeps traffic sequencing safe and gives ATC a clear picture of what you'll do next. You set your transponder to 7600 to signal a loss of communications. Then you should continue on the last heading, altitude, and speed reported by ATC for about 20 minutes. This keeps your flight path stable and avoids surprises for other traffic while ATC decides how best to handle the situation. After that period, proceed along the route you were last cleared to follow, or the route ATC has advised you to expect, or the filed route if no further clearance exists. Plan to land at your destination as soon as practicable, ideally within about 30 minutes of your published ETA, rather than delaying indefinitely or trying to force an immediate landing without coordination. This approach preserves orderly traffic flow and ensures you don't drift off into conflicts or unsafe areas while you're unable to communicate. Options that indicate hijack or a general emergency aren't appropriate for a routine loss of communications, and simply landing immediately after losing contact can create risks with other aircraft and ATC coordination.

## Next Steps

**Congratulations on reaching the final section of this guide. You've taken a meaningful step toward passing your certification exam and advancing your career.**

**As you continue preparing, remember that consistent practice, review, and self-reflection are key to success. Make time to revisit difficult topics, simulate exam conditions, and track your progress along the way.**

**If you need help, have suggestions, or want to share feedback, we'd love to hear from you. Reach out to our team at [hello@examzify.com](mailto:hello@examzify.com).**

**Or visit your dedicated course page for more study tools and resources:**

**<https://meirtheory.examzify.com>**

**We wish you the very best on your exam journey. You've got this!**

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