

Department of Defense (DoD) Aircraft Rescue and Fire Fighting (ARFF) Capability Development Center (CDC) Practice Exam (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. How do aircraft design features impact ARFF response?
 - A. They can decrease the time needed for rescue
 - B. Certain designs require specific access points and techniques for rescue
 - C. Aircraft features have no impact on firefighting methods
 - D. They dictate the amount of foam required for fire suppression

2. To operate an ARFF apparatus defensively, what should you do first?
 - A. Follow the speed limits
 - B. Increase fuel efficiency
 - C. Maintain constant communication with crew
 - D. Familiarize yourself with the apparatus

3. Which is NOT a method for resupplying foam?
 - A. Overhead gravity
 - B. Transfer from a tender using a pump
 - C. Refilling directly from a 5-gallon container
 - D. Using a hose to siphon

4. What is a key guideline for adding designators to runway numbers?
 - A. Use letters A and B to indicate parallel runways
 - B. Use letters L and R for left and right of the approaching pilot
 - C. Add numbers to indicate the elevation
 - D. Designate using the nearest airport location

5. Which of the following is NOT a required defensive driving exercise for the performance test?
 - A. Lane changes
 - B. Straight line driving
 - C. Obstacle avoidance
 - D. Stopping procedures

6. For which class of fires is foam used as a primary extinguishing agent?
- A. Class A fires
 - B. Class B fires
 - C. Class C fires
 - D. Class D fires
7. Which type of aircraft fuel is known for having the highest flashpoint and the slowest rate of flame spread?
- A. Kerosene
 - B. Gasoline
 - C. Diesel
 - D. Jet A
8. Which of the following statements about extinguishment and overhaul is FALSE?
- A. Extinguishment involves eliminating fire
 - B. Overhaul confirms that the fire is completely out
 - C. Extinguishment includes only the elimination of service fire
 - D. Overhaul may involve additional inspections
9. What is the required tilt angle for handline nozzles during testing?
- A. 15° angle with the horizon
 - B. 30° angle with the horizon
 - C. 45° angle with the horizon
 - D. 60° angle with the horizon
10. What does the oscillation control on the turret control panel manage?
- A. The vertical movement of the turret
 - B. The horizontal movement of the turret
 - C. The foam dispersion rate
 - D. The water supply pressure

Answers

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

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Explanations

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1. How do aircraft design features impact ARFF response?

- A. They can decrease the time needed for rescue
- B. Certain designs require specific access points and techniques for rescue**
- C. Aircraft features have no impact on firefighting methods
- D. They dictate the amount of foam required for fire suppression

Aircraft design features significantly impact ARFF response, primarily because certain designs require specific access points and techniques for effective rescue operations. Aircraft are built with various configurations, shapes, and safety mechanisms that influence how rescuers can gain access to passengers and crews during emergencies. For example, the location of doors, hatches, and emergency exits varies from one aircraft model to another. This variance affects the approach and technique used by firefighters and rescue teams when they respond to an incident. If a plane is designed with high-wing placement, rescuers may need to use ladders or specialized equipment to reach passengers safely. Similarly, the presence of aircraft features like cockpit barriers, double-decker seating, or narrow aisles can further complicate quick evacuation or rescue efforts. Understanding the implications of aircraft design on rescue operations allows ARFF teams to prepare more effectively for emergencies and adapt their strategies to accommodate different aircraft types, which directly influences their operational efficiency during an emergency response.

2. To operate an ARFF apparatus defensively, what should you do first?

- A. Follow the speed limits**
- B. Increase fuel efficiency
- C. Maintain constant communication with crew
- D. Familiarize yourself with the apparatus

To operate an Aircraft Rescue and Fire Fighting (ARFF) apparatus defensively, it is crucial to first follow the speed limits. This ensures that the operator can maintain control of the vehicle and react appropriately to any sudden changes in the environment or situation. Adhering to speed limits is not only a matter of safety for the crew and passengers but also helps in reducing the risk of accidents, thereby ensuring that the apparatus can respond effectively to emergencies. While factors like maintaining constant communication with the crew and familiarizing oneself with the apparatus are important in overall operational effectiveness, they come into play once the vehicle is being operated safely. Similarly, increasing fuel efficiency is a relevant aspect of operational management but is secondary to ensuring safe driving practices. Prioritizing adherence to speed limits sets the foundation for safe and defensive driving in emergency situations.

3. Which is NOT a method for resupplying foam?

- A. Overhead gravity
- B. Transfer from a tender using a pump
- C. Refilling directly from a 5-gallon container
- D. Using a hose to siphon

The correct choice indicates a method that is not typically used for resupplying foam. Using a hose to siphon is often impractical and inefficient for resupplying foam in an aircraft rescue and firefighting context. Siphoning requires a certain elevation difference and can lead to contamination or loss of foam properties during the transfer process. In contrast, the other methods—overhead gravity, transfer from a tender using a pump, and refilling directly from a 5-gallon container—are established and effective techniques for ensuring a reliable and consistent supply of foam. Overhead gravity allows for a controlled and steady flow of foam, which is beneficial in maintaining operational readiness. Transferring foam from a tender using a pump ensures that the foam is delivered at pressure to meet the demands of the firefighting situation. Refilling directly from a 5-gallon container provides a straightforward and manageable way to replenish foam supplies. These other methods emphasize the importance of functionality and reliability in foam resupply operations, critical for effective firefighting and rescue missions.

4. What is a key guideline for adding designators to runway numbers?

- A. Use letters A and B to indicate parallel runways
- B. Use letters L and R for left and right of the approaching pilot
- C. Add numbers to indicate the elevation
- D. Designate using the nearest airport location

Using letters L and R for left and right of the approaching pilot is the key guideline for adding designators to runway numbers. This practice ensures clarity and safety for pilots during approach and landing, particularly when they are dealing with parallel runways. By designating one runway as "Left" and another as "Right," it becomes easier for pilots to distinguish between runways, reducing the potential for confusion and enhancing situational awareness. When multiple runways are aligned parallel to each other, this method directly relates to the pilot's perspective as they approach the airfield, making it a standardized practice in aviation communication. This guideline reflects the importance of clear and unambiguous instructions in maintaining safe flight operations, especially in busy air traffic environments. The other options do not align as effectively with the established principles for runway designators. For instance, using letters A and B might seem intuitive, but it does not account for the perspective of the approaching pilot. Meanwhile, adding numbers to indicate elevation or designating based on the nearest airport location does not provide the necessary clarity that pilots need when navigating multiple runways.

5. Which of the following is NOT a required defensive driving exercise for the performance test?

- A. Lane changes
- B. Straight line driving
- C. Obstacle avoidance
- D. Stopping procedures

The correct answer, obstacle avoidance, is not a required defensive driving exercise in the performance test because it focuses more on techniques specifically related to responding to sudden situations or hazards, rather than the basic skills needed for everyday safe driving practices. Defensive driving exercises typically emphasize fundamental driving maneuvers and decision-making skills that ensure safety on the road. Lane changes, straight line driving, and stopping procedures are essential components of this training as they directly relate to maintaining control of the vehicle, understanding traffic patterns, and effectively responding to other drivers' actions. These skills are critical in preventing accidents and promoting safety in various driving environments. Obstacle avoidance, while an important skill in certain emergency scenarios, may not be classified under the standard essential exercises for defensive driving, as it represents a reactive measure rather than a proactive driving strategy that the performance test evaluates.

6. For which class of fires is foam used as a primary extinguishing agent?

- A. Class A fires
- B. Class B fires
- C. Class C fires
- D. Class D fires

Foam is primarily used as an extinguishing agent for Class B fires, which involve flammable liquids such as gasoline, oil, and solvents. The unique properties of foam create a barrier that smothers the flames and separates the fuel from the oxygen, effectively stopping the combustion process. This is crucial in controlling and extinguishing Class B fires, as it reduces the chances of reignition by covering the flammable surface with a foam blanket. In contrast, Class A fires, which involve ordinary combustibles like wood and paper, typically require water or other extinguishing methods that cool the material. Class C fires involve energized electrical equipment and require agents that do not conduct electricity, such as carbon dioxide or dry chemical extinguishers. Class D fires are related to combustible metals and require specialized agents that can effectively handle such materials. Thus, foam's effectiveness in forming a film on top of flammable liquids makes it the most appropriate choice for combating Class B fires.

7. Which type of aircraft fuel is known for having the highest flashpoint and the slowest rate of flame spread?

A. Kerosene

B. Gasoline

C. Diesel

D. Jet A

The type of aircraft fuel known for having the highest flashpoint and the slowest rate of flame spread is kerosene. Kerosene, which includes fuels such as Jet A, typically has a higher flashpoint than gasoline and diesel, making it less volatile and reducing the risk of ignition at normal temperatures. The flashpoint of kerosene is around 38-72°C (around 100-160°F), which is significantly higher than that of gasoline or diesel. In terms of flame spread, kerosene is designed to burn more slowly than gasoline, allowing for a controlled burn, which is critical in managing fire incidents involving aircraft. This characteristic is particularly important for Aircraft Rescue and Fire Fighting operations, where the goal is to contain and combat fires effectively while minimizing risk to rescuers and victims. Gasoline, in contrast, has a much lower flashpoint and a fast rate of flame spread, making it more hazardous in fire situations. Diesel has a similar flashpoint to kerosene but can be more difficult to ignite under certain conditions. Jet A is a type of kerosene, but it generally has a flashpoint in line with kerosene, not exceeding it, which is why kerosene is considered the answer regarding the

8. Which of the following statements about extinguishment and overhaul is FALSE?

A. Extinguishment involves eliminating fire

B. Overhaul confirms that the fire is completely out

C. Extinguishment includes only the elimination of service fire

D. Overhaul may involve additional inspections

The statement that extinguishment includes only the elimination of service fire is not accurate. Extinguishment refers to the process of completely putting out a fire, which can include various types of fires beyond just "service fire." This term encompasses any fire present at the scene, regardless of its origin or nature, including structural fires, vehicle fires, and wildland fires, among others. The aim of extinguishment is to ensure that all active flames and residual heat that could reignite are adequately addressed. In contrast, the other statements correctly reflect the roles of extinguishment and overhaul. Extinguishment is specifically focused on the active process of putting out flames, while overhaul is concerned with ensuring that the fire is entirely out, often by checking for hidden embers or heat sources that could reignite. Overhaul can require further inspection to confirm that the area is safe post-extinguishment. Hence, the correct interpretation of extinguishment as a broader action than just eliminating service fire clarifies why that statement is deemed false.

9. What is the required tilt angle for handline nozzles during testing?

- A. 15° angle with the horizon
- B. 30° angle with the horizon
- C. 45° angle with the horizon
- D. 60° angle with the horizon

The required tilt angle for handline nozzles during testing is established to ensure that the nozzle operates effectively and efficiently under conditions that simulate real-life firefighting scenarios. A 30° angle with the horizon has been determined as the optimal tilt that allows for a proper distribution of water flow while minimizing the risk of obstruction or turbulence that could diminish the nozzle's performance. This angle helps firefighters achieve a balance between reach and coverage, allowing the stream to effectively penetrate and reach the base of a fire while maintaining sufficient pressure and pattern control. Utilizing this angle aids in testing the nozzle's capability to deliver water effectively in a variety of operational conditions firefighters may encounter. The other options do not reflect the best tilt for operational effectiveness as they either increase the likelihood of ineffective water distribution or do not comply with established standards for testing handline nozzles. Thus, choosing a 30° angle reflects adherence to industry standards and maximizes the operational readiness of ARFF personnel.

10. What does the oscillation control on the turret control panel manage?

- A. The vertical movement of the turret
- B. The horizontal movement of the turret
- C. The foam dispersion rate
- D. The water supply pressure

The oscillation control on the turret control panel is designed to manage the horizontal movement of the turret. This feature allows the turret to sweep side to side, providing better coverage of a designated area and ensuring that firefighting measures can be applied effectively across a broader range. The ability to adjust the turret's horizontal movement is critical during firefighting operations as it aids in targeting the fire more accurately and efficiently, especially when dealing with large aircraft or complex incidents. Vertical movement of the turret, while also important, is managed separately and typically involves other controls dedicated to that function. Foam dispersion rates and water supply pressure are influenced by different controls within the firefighting system, focusing on fluid dynamics rather than turret mobility. Understanding these specific controls and their functions is essential for effective aircraft rescue and firefighting operations.

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.

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

<https://dod-aircraftrescueandfirefighting-cdc.examzify.com>

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

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