

# NFPA 96/17A Class K Fire Protection Practice Test (Sample)

## Study Guide



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

**Copyright © 2026 by Examzify - A Kaluba Technologies Inc. product.**

**ALL RIGHTS RESERVED.**

**No part of this book may be reproduced or transferred in any form or by any means, graphic, electronic, or mechanical, including photocopying, recording, web distribution, taping, or by any information storage retrieval system, without the written permission of the author.**

**Notice: Examzify makes every reasonable effort to obtain accurate, complete, and timely information about this product from reliable sources.**

**SAMPLE**

# Table of Contents

<b>Copyright</b> .....	<b>1</b>
<b>Table of Contents</b> .....	<b>2</b>
<b>Introduction</b> .....	<b>3</b>
<b>How to Use This Guide</b> .....	<b>4</b>
<b>Questions</b> .....	<b>5</b>
<b>Answers</b> .....	<b>8</b>
<b>Explanations</b> .....	<b>10</b>
<b>Next Steps</b> .....	<b>16</b>

SAMPLE

# 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

SAMPLE

- 1. Hoods shall be sized and configured to provide for the capture and removal of which emissions?**
  - A. grease-laden vapors**
  - B. steam only**
  - C. smoke**
  - D. vapors from cleaning solvents**
  
- 2. Cooking equipment used in fixed, mobile, or temporary concessions shall comply with the standard unless exempted by the \_\_\_\_\_.**
  - A. AHJ**
  - B. Fire Department**
  - C. Building Official**
  - D. Code Official**
  
- 3. What steps follow a discharge?**
  - A. Refill/recharge the agent, inspect for damage, reset the system, and conduct acceptance tests.**
  - B. Notify authorities, evacuate, and shut down power.**
  - C. Document incident only and wait for next scheduled test.**
  - D. Inspect for leaks and replace the entire system.**
  
- 4. After remodeling, the hood, duct, and WCFS should be?**
  - A. Removed entirely**
  - B. Reassessed and possibly modified to maintain coverage and compliance**
  - C. Left as-is**
  - D. Replaced with residential equipment**
  
- 5. What term describes construction that does not permit the passage of any grease under normal cooking conditions?**
  - A. Sealed**
  - B. Greasetight**
  - C. Greaseproof**
  - D. Oilproof**

- 6. What is the required clearance between a deep-fat fryer and surface flames?**
- A. 8**
  - B. 12**
  - C. 16**
  - D. 20**
- 7. Maintenance of fire-extinguishing systems and listed exhaust hoods must be performed by what kind of personnel?**
- A. Properly trained, qualified, and certified personnel acceptable to the Authority Having Jurisdiction**
  - B. Licensed firefighters only**
  - C. On-site staff**
  - D. Volunteers**
- 8. What is the minimum clearance from combustible material for hoods and ducts when enclosures are not required?**
- A. 18in**
  - B. 12in**
  - C. 24in**
  - D. 6in**
- 9. What device minimizes the passage of air-borne sparks or embers into a plenum, duct, or flue?**
- A. Spark Arrester**
  - B. Dampener**
  - C. Smoke Detector**
  - D. Vent**
- 10. Exhaust systems shall be operated \_\_\_\_\_.**
- A. Only during cooking**
  - B. Whenever the cooking equipment is turned on**
  - C. Continuously**
  - D. Only during maintenance**

## Answers

SAMPLE

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

SAMPLE

## **Explanations**

SAMPLE

**1. Hoods shall be sized and configured to provide for the capture and removal of which emissions?**

- A. grease-laden vapors**
- B. steam only**
- C. smoke**
- D. vapors from cleaning solvents**

Grease-laden vapors are the primary emissions a kitchen hood is designed to capture and remove. Cooking processes generate a mix of heat, steam, smoke, and airborne fats; among these, the grease-laden vapors pose the greatest fire risk because grease can ignite and cling to surfaces and ductwork. By sizing the hood and configuring it with appropriate face velocity and intake geometry, the system pulls these greasy vapors at the source and exhausts them, reducing accumulation in the cooking area and preventing flame and duct deposits. Steam and smoke do occur during cooking, but they are not the focus of the hood sizing requirement in the same way. Steam is often managed by the overall ventilation rate and may condense without creating the same ignition hazard, while smoke is less consistent as a fire hazard concern than grease-laden vapors. Vapors from cleaning solvents can be present in some operations, but they are not the primary emissions the hood is designed to handle in typical kitchen hood design.

**2. Cooking equipment used in fixed, mobile, or temporary concessions shall comply with the standard unless exempted by the \_\_\_\_\_.**

- A. AHJ**
- B. Fire Department**
- C. Building Official**
- D. Code Official**

Exemption from the cooking equipment standard is granted by the Authority Having Jurisdiction. The AHJ is the official or entity empowered to interpret and enforce fire safety codes in a given area, and they determine when a deviation or exemption is appropriate based on specific conditions, risks, and approved compensating measures. In practice, this could be the fire marshal or another designated fire code official within the jurisdiction. The other roles—while related to enforcement—do not independently represent the authority to grant exemptions in this context, since the rule points to the AHJ as the ultimate approving body.

### 3. What steps follow a discharge?

- A. Refill/recharge the agent, inspect for damage, reset the system, and conduct acceptance tests.**
- B. Notify authorities, evacuate, and shut down power.**
- C. Document incident only and wait for next scheduled test.**
- D. Inspect for leaks and replace the entire system.**

After a discharge, the system needs to be brought back into service. The best sequence is to refill or recharge the extinguishing agent, inspect the system for any damage or leaks, reset the system so it can be armed again, and then perform acceptance tests to verify everything functions correctly. Recharging the agent is essential because the discharge drains the medium, and the system must have the proper amount and concentration to provide protection. Inspecting components—piping, valves, nozzles, and the vessel—ensures there wasn't damage during discharge that could compromise performance. Resetting clears alarms and returns the control panel and interlocks to a ready state. Acceptance testing confirms the system operates as intended, including the release sequence and alarm responses, after it's been serviced. The other options don't fit typical post-discharge restoration: emergency actions like notifying authorities, evacuating, or shutting down power are not routine steps after a discharge. Merely documenting the incident and waiting for the next test doesn't restore readiness. Inspecting for leaks and replacing the entire system is unnecessary unless there is extensive, unrecoverable damage.

### 4. After remodeling, the hood, duct, and WCFS should be?

- A. Removed entirely**
- B. Reassessed and possibly modified to maintain coverage and compliance**
- C. Left as-is**
- D. Replaced with residential equipment**

Remodeling can change the layout, equipment footprint, grease load, and airflow in a commercial kitchen, which can affect how well the hood, ductwork, and wet chemical fire suppression system protect the space. Because of that, the entire system should be reassessed and, if needed, modified to maintain proper coverage and code compliance. This means checking that the hood size and clearance, duct routing, and grease containment still match the original design, and that the wet chemical suppression system still provides complete nozzle coverage for all cooking appliances, with any changes properly integrated into the system's listing and the control components. If changes are found, adjustments may be required to reestablish full protection. Removing the system entirely would leave an unprotected kitchen; leaving it as-is after changes can create gaps in protection or violate codes; and replacing commercial equipment with residential gear would not meet the fire protection needs of a commercial kitchen.

**5. What term describes construction that does not permit the passage of any grease under normal cooking conditions?**

**A. Sealed**

**B. Greasetight**

**C. Greaseproof**

**D. Oilproof**

Grease control in kitchen exhaust systems hinges on preventing any grease from passing through the construction during normal cooking. The term that describes this level of resistance is grease-tight. This designation means the hood, duct, and joints are built so grease cannot permeate into the ventilation space, typically achieved with continuous metal ducting, tight joints, sealed penetrations, and proper closures. This reduces the risk of grease fires spreading through the system and makes cleaning easier because grease isn't able to wick into hidden gaps. Other terms don't fit the standard language used for these assemblies: sealed is generic and doesn't specify grease resistance; greaseproof is usually used for materials like fabrics or papers that resist grease, not for ductwork construction; oilproof isn't the terminology used in NFPA 96 for kitchen exhaust systems.

**6. What is the required clearance between a deep-fat fryer and surface flames?**

**A. 8**

**B. 12**

**C. 16**

**D. 20**

The key idea is protecting nearby surfaces from radiant heat and potential ignition from a fryer. NFPA 96 requires a minimum separation to keep walls, cabinets, and other combustibles safe from the intense heat and possible flame exposure generated by deep-fat fryers. The required minimum distance is 16 inches, which provides enough space to reduce heat transfer and lessen the risk of ignition. Distances smaller than that would leave too little protection, while a larger distance isn't mandated by the standard.

**7. Maintenance of fire-extinguishing systems and listed exhaust hoods must be performed by what kind of personnel?**

**A. Properly trained, qualified, and certified personnel acceptable to the Authority Having Jurisdiction**

**B. Licensed firefighters only**

**C. On-site staff**

**D. Volunteers**

Maintenance must be performed by properly trained, qualified, and certified personnel acceptable to the Authority Having Jurisdiction. This ensures technicians have demonstrated competency with the specific fire-extinguishing systems and listed exhaust hoods, follow the correct testing and service procedures, and comply with applicable NFPA standards and local codes. The AHJ's acceptance guarantees that the individuals performing the work meet the required level of expertise and accountability, reducing the risk of improper maintenance, system failure, or accidental discharge. While licensed firefighters, on-site staff, or volunteers may have valuable experience, they may not always hold the specialized training, certifications, or formal approval needed to service these systems to code and safety standards.

**8. What is the minimum clearance from combustible material for hoods and ducts when enclosures are not required?**

**A. 18in**

**B. 12in**

**C. 24in**

**D. 6in**

Minimum clearance from combustible material for hoods and ducts when enclosures are not required is 18 inches. This distance guards against heat and grease from the ductwork reaching nearby combustibles, reducing the risk of ignition and making it easier to inspect and clean the system. If you rely on enclosures, the exterior clearance rule is superseded by the enclosure requirements, but when enclosures aren't used, the 18-inch gap is the standard.

9. What device minimizes the passage of air-borne sparks or embers into a plenum, duct, or flue?

- A. Spark Arrester**
- B. Dampener**
- C. Smoke Detector**
- D. Vent**

The main idea is preventing ignition sources from traveling into ventilation paths. A spark arrester is installed at exhaust outlets and within ducts to capture or block air-borne sparks and embers before they enter the plenum, duct, or flue. It usually uses a metal screen or mesh that allows hot gases to pass but traps larger particles, reducing the chance that a spark could ignite grease, dust, or other combustibles inside the ductwork. This protection is especially important in grease-laden exhaust systems where a small ember could start a duct fire. The other options don't serve this barrier function. A dampener controls how much air moves through the system, not what kind of particles pass through. A smoke detector senses smoke presence to trigger an alarm or suppression actions, but it doesn't stop sparks from entering the duct. A vent is simply an opening for air flow and does not impede the passage of sparks or embers.

10. Exhaust systems shall be operated \_\_\_\_.

- A. Only during cooking**
- B. Whenever the cooking equipment is turned on**
- C. Continuously**
- D. Only during maintenance**

Ventilation in a commercial kitchen is there to remove heat, steam, and especially grease-laden vapors produced by cooking. The exhaust should operate whenever the cooking equipment is turned on because that's when the load on the system is present and the risk of grease buildup and ignition is highest. If the exhaust ran only during maintenance or continuously when nothing is cooking, either you'd waste energy or you'd miss venting during active cooking. So, the correct practice is to have the exhaust operate whenever the cooking equipment is turned on.

## 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://nfpa96and17aclasskfireprot.examzify.com>**

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

SAMPLE