

# OCFA Securing Utilities 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 key elements of a comprehensive OT vulnerability management program?**
  - A. Occasional manual checks**
  - B. Asset discovery, ongoing scanning, risk scoring, patch/testing, change control, verification, and governance reporting**
  - C. Patch only after outage**
  - D. No governance**
  
- 2. What is the primary function of a SOC playbook in utility security operations?**
  - A. Stores social media posts**
  - B. Focuses solely on physical security**
  - C. SOC playbook provides standardized steps for common incidents, enabling fast, repeatable, and well-coordinated responses across teams**
  - D. Replaces the need for human operators**
  
- 3. Which of the following lists the components of a risk assessment for securing a utility OT environment?**
  - A. Asset inventory, threat modeling, vulnerability assessment, impact analysis, likelihood estimation, control catalog, risk computation process**
  - B. Asset inventory, threat modeling, patch management, rollback plans, incident response**
  - C. Threat modeling, vulnerability scanning, network topology, change management**
  - D. Impact analysis, asset disposal, vendor risk, governance framework**
  
- 4. BLEVE stands for which phenomenon?**
  - A. Boiling Liquid Evaporation Vapor Explosion**
  - B. Boiling Liquid Expansion Vapor Explosion**
  - C. Boiling Liquid Expanding Vapor Event**
  - D. Boiling Liquid Expanding Vapor Explosion**

- 5. What is a key SIEM challenge in OT environments?**
- A. They require no configuration.**
  - B. They do not collect logs from OT devices.**
  - C. OT-specific data sources require careful tuning and normalization.**
  - D. They automatically remediate threats.**
- 6. Which current range is associated with ventricular fibrillation?**
- A. 0.5 milliamp**
  - B. 2-10 milliamps**
  - C. 50-200 milliamps**
  - D. 100 milliamps**
- 7. What distance should you stand from a pad-mounted transformer fire when applying water?**
- A. 10 feet away**
  - B. 33 feet away**
  - C. 50 feet away**
  - D. 100 feet away**
- 8. How does asset criticality influence risk impact scoring in an OT risk assessment?**
- A. It doesn't influence impact**
  - B. Higher criticality assets have higher impact scores; thus risk can be prioritized accordingly**
  - C. It reduces impact scores for critical assets**
  - D. It only affects likelihood, not impact**
- 9. SOP OP.06.65 discusses which topic?**
- A. Emergency Response Procedures**
  - B. Gas Leak Terminology**
  - C. Identification and Management of Life Safety Hazards**
  - D. Electrical Hazard Assessment**

**10. When enabling remote access for OT systems, which combination is recommended?**

- A. Strong authentication and least-privilege access**
- B. Device-based access controls**
- C. Open access without auditing**
- D. Secure channeling with auditability and least privilege**

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## Answers

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

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## **Explanations**

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**1. What are the key elements of a comprehensive OT vulnerability management program?**

**A. Occasional manual checks**

**B. Asset discovery, ongoing scanning, risk scoring, patch/testing, change control, verification, and governance reporting**

**C. Patch only after outage**

**D. No governance**

A comprehensive OT vulnerability management program hinges on a continuous, risk-based lifecycle that covers visibility, detection, prioritization, safe remediation, and oversight. Asset discovery ensures you know every device and asset on the network, which is essential in OT where many devices are legacy or hard to inventory. Ongoing scanning keeps vulnerabilities current rather than relying on occasional checks. Risk scoring helps focus limited resources on the most impactful issues, balancing security with the need to maintain uptime. Patch and testing practices are crucial because OT environments require validated changes to avoid disrupting control systems or safety functions. Change control governs any modification, preventing unintended outages and configuration drift. Verification confirms that remediation actually closed the vulnerability and didn't introduce new risks. Governance reporting provides leadership with visibility into progress, compliance, and trends, enabling accountability and continuous improvement. Without this full spectrum, you'd risk blind spots, delayed remediation, unsafe or incompatible patches, and unmanaged risk. The other options fail to provide continuous visibility, timely and safe remediation, or proper oversight and governance.

**2. What is the primary function of a SOC playbook in utility security operations?**

**A. Stores social media posts**

**B. Focuses solely on physical security**

**C. SOC playbook provides standardized steps for common incidents, enabling fast, repeatable, and well-coordinated responses across teams**

**D. Replaces the need for human operators**

A SOC playbook provides standardized steps for common incidents, enabling fast, repeatable, and well-coordinated responses across teams. In security operations for utilities, where outages or compromises can impact safety and service, having predefined procedures helps responders act quickly and consistently. The playbook guides the entire incident lifecycle—from detection and triage to containment, eradication, recovery, and post-incident review—ensuring clear roles, escalation paths, and timing. It also supports evidence collection, compliance needs, and coordination between security, IT/OT operations, engineering, and incident command. It doesn't store social media posts, isn't focused only on physical security, and it doesn't replace human operators; it augments human decision-making and can automate routine steps within safe boundaries.

3. Which of the following lists the components of a risk assessment for securing a utility OT environment?
- A. Asset inventory, threat modeling, vulnerability assessment, impact analysis, likelihood estimation, control catalog, risk computation process**
  - B. Asset inventory, threat modeling, patch management, rollback plans, incident response**
  - C. Threat modeling, vulnerability scanning, network topology, change management**
  - D. Impact analysis, asset disposal, vendor risk, governance framework**

In securing a utility OT environment, a comprehensive risk assessment starts with knowing what you need to protect and then examining how threats could exploit weaknesses and what impact that would have. That sequence is captured by including asset inventory to identify all critical assets, threat modeling to map out potential attacker pathways and scenarios, and vulnerability assessment to uncover weaknesses that could be exploited. From there, impact analysis explains what happens if a risk materializes, and likelihood estimation helps quantify how probable it is. A control catalog is then used to list the safeguards available or planned, and a risk computation process ties everything together to produce a risk level that guides prioritization. Together, these components form a complete, structured approach to evaluating and prioritizing security in an OT setting. The other options miss essential pieces. One focuses on operational tasks like patch management and incident response rather than the full risk calculation workflow. Another lacks asset inventory, risk computation, or a complete view of controls and impacts. The last option omits major elements like threat modeling, vulnerability assessment, and the structured method to compute risk, leaving you without a coherent basis to prioritize mitigations.

4. BLEVE stands for which phenomenon?
- A. Boiling Liquid Evaporation Vapor Explosion**
  - B. Boiling Liquid Expansion Vapor Explosion**
  - C. Boiling Liquid Expanding Vapor Event**
  - D. Boiling Liquid Expanding Vapor Explosion**

BLEVE describes a violent failure of a pressure vessel containing hot, pressurized liquid. When heat raises the liquid to or above its boiling point under pressure, the liquid rapidly flashes to high-pressure vapor. If the vessel ruptures, that vapor expands explosively, along with liquid fragments, producing a powerful blast. The term Boiling Liquid Expanding Vapor Explosion captures this sequence: boiling creates the vapor, the vapor expands rapidly, and the release becomes an explosion. Other options use terms that don't describe the rapid flash and explosive energy release—such as evaporation or an event—so they don't fit the phenomenon as accurately.

**5. What is a key SIEM challenge in OT environments?**

- A. They require no configuration.**
- B. They do not collect logs from OT devices.**
- C. OT-specific data sources require careful tuning and normalization.**
- D. They automatically remediate threats.**

In OT environments, the data feeding a SIEM comes from a variety of specialized sources—PLCs, historians, HMIs, engineering workstations, and industrial gateways—each with its own log formats and event meanings. This diversity means the SIEM must be carefully configured to collect from these sources and, crucially, to normalize and map the data into a common structure so that events from different devices can be correlated meaningfully. You also need to tune parsers, time references, and field mappings, and establish baselines for normal OT behavior, so alerts reflect real anomaly or intrusion patterns rather than noise from unfamiliar OT activity. Without this normalization and tuning, you can't reliably detect cross-device sequences that indicate threats in an OT setup. Other statements miss the reality of OT SIEMs: you do configure collectors and parsers because OT devices use varied formats; OT logs can indeed be collected, but they typically require specialized connectors and normalization to be useful; and SIEMs focus on detection and alerting rather than automatically remediating threats, with remediation usually handled by other security controls or SOC playbooks.

**6. Which current range is associated with ventricular fibrillation?**

- A. 0.5 milliamp**
- B. 2-10 milliamps**
- C. 50-200 milliamps**
- D. 100 milliamps**

When current passes through the chest, it can disrupt the heart's electrical system and cause ventricular fibrillation, a life-threatening quivering of the heart rather than a coordinated beat. The danger is highest with alternating current from power sources, where risky rhythms appear in the tens to hundreds of milliamps range. The range that best reflects where ventricular fibrillation becomes likely is about 50 to 200 milliamps. This window captures the current levels at which the heart's normal rhythm can be suddenly deranged during typical exposure. Lower currents, like fractions of a milliamp or a few milliamps, mostly cause tingling or muscle contractions and don't reliably trigger VF. A single value such as 100 milliamps is within the risk window but doesn't represent the broader range over which VF can occur; the broader 50-200 mA range is the appropriate descriptor.

**7. What distance should you stand from a pad-mounted transformer fire when applying water?**

**A. 10 feet away**

**B. 33 feet away**

**C. 50 feet away**

**D. 100 feet away**

The main idea is staying at a safe distance from a pad-mounted transformer fire to avoid explosive rupture, splatter of hot oil, or energizing the water path. These transformers can contain flammable insulating oil and may rupture under fire, throwing hot oil, metal, and debris outward. Water applied too close can cause violent steam, splatter, or contribute to an electric shock risk if it contacts live parts. By keeping a substantial distance, you reduce exposure to the blast and potential arc or shrapnel while still being able to cool the surrounding flames and prevent the fire from spreading. The recommended distance is about 33 feet (roughly 10 meters), which balances safety with effectiveness. Being much closer increases risk, while being much farther can limit your ability to control the fire.

**8. How does asset criticality influence risk impact scoring in an OT risk assessment?**

**A. It doesn't influence impact**

**B. Higher criticality assets have higher impact scores; thus risk can be prioritized accordingly**

**C. It reduces impact scores for critical assets**

**D. It only affects likelihood, not impact**

Asset criticality is about how essential an asset is to operations, safety, and regulatory compliance. When you assess risk, impact measures the consequences if something goes wrong. If an asset is highly critical, its disruption or loss can cause major production downtime, safety incidents, environmental damage, regulatory penalties, and large financial losses. Because of that, its impact score should be higher, which raises the overall risk and helps you prioritize fixes and mitigations where they matter most. The other options don't fit because criticality does influence impact (it raises it for the most important assets), it doesn't reduce impact, and impact can be affected by criticality, not limited only to likelihood.

## 9. SOP OP.06.65 discusses which topic?

- A. Emergency Response Procedures
- B. Gas Leak Terminology
- C. Identification and Management of Life Safety Hazards**
- D. Electrical Hazard Assessment

This is about recognizing and controlling conditions that can endanger lives during operations. SOP OP.06.65 guides responders to quickly identify hazards that threaten life safety, assess the level of risk, and put in place controls to protect people and reduce exposure. It covers the kinds of conditions that can create dangerous environments—such as gas leaks, energized or damaged electrical equipment, hazardous atmospheres, structural instability, and other situational risks—and emphasizes how to communicate findings, establish appropriate control zones, isolate hazards, and coordinate with incident command to make safe, informed decisions about how to proceed. The other topics are narrower in scope: emergency response procedures describe the steps during an incident, gas leak terminology focuses on naming and classification, and electrical hazard assessment is a narrow subset of hazards. Life safety hazard identification and management, by contrast, provides the broad framework for spotting and mitigating any condition that could threaten people, which is why it's the best fit.

## 10. When enabling remote access for OT systems, which combination is recommended?

- A. Strong authentication and least-privilege access
- B. Device-based access controls
- C. Open access without auditing
- D. Secure channeling with auditability and least privilege**

When enabling remote access for OT systems, you want to protect the channel, keep a clear record of what happens, and limit what users can do. A secure channel ensures the remote connection is encrypted and protected from tampering or eavesdropping, so commands and data stay confidential and intact as they travel between the operator and the OT devices. Auditability provides a traceable record of who connected, when, and what actions were performed, which is essential for incident response, troubleshooting, and compliance. Least privilege restricts users to only the minimum access necessary, reducing the potential impact if credentials are compromised or if a session is misused. Put together, these three aspects create a strong, defense-in-depth approach for OT remote access. Other options miss one or more of these critical elements: strong authentication with least privilege alone lacks encrypted channels and full session auditing; device-based controls may not cover all remote pathways or provide complete session logs; open access without auditing is insecure and noncompliant.

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

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

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