

NETA ETT CERTIFIED ASSISTANT LEVEL 3 CERTIFICATION PRACTICE TEST (SAMPLE) STUDY GUIDE



Prepare with structure. Pass with confidence



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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 is the maximum size conductor that can be terminated using a 200A load break elbow?
 - A. 150
 - B. 200
 - C. 250
 - D. 300
2. What is the recommended minimum insulation-resistance value for an acceptance test on random-wound stator coils and form-wound coils below 1 kV?
 - A. 5 Megohms
 - B. 10 Megohms
 - C. 1 Megohm
 - D. 15 Megohms
3. In calculating power in a three-phase circuit, the product of line voltage and line current is multiplied by which value?
 - A. 2.618
 - B. 1.732
 - C. 3.414
 - D. 1.414
4. Suppose two 50 mH inductors are connected in parallel with each other. What will their combined inductance be?
 - A. 100 mH
 - B. 50 mH
 - C. 25 mH
 - D. 75 mH
5. What is the voltage rate of rise for an ASTM D1816 test?
 - A. 1 kV/s
 - B. 0.1 kV/s
 - C. 0.5 kV/s
 - D. 2 kV/s

- 6. Which of the following methods is NOT a valid approach for reducing arc energy in circuit breakers?**
- A. Energy-reducing active arc flash mitigation system
 - B. Increasing the instantaneous trip setting
 - C. Differential relaying
 - D. Energy-reducing maintenance switching
- 7. Which ANSI/IEEE standard addresses SF6 circuit breakers?**
- A. C37.10
 - B. C37.04
 - C. C37.20
 - D. C37.30
- 8. Which technology is renowned for its ability to sustain high-speed data transmission without significant loss over distances?**
- A. Coaxial cables
 - B. Fiber optics
 - C. Twisted pair wiring
 - D. Electrical cabling
- 9. Who is responsible for performing a risk assessment according to OSHA?**
- A. The contractor
 - B. The employee
 - C. The employer
 - D. The safety officer
- 10. In a right triangle, if one side is 5 and another side is 4, what is the angle adjacent to the side that measures 5?**
- A. 45 degrees
 - B. 38.66 degrees
 - C. 53.13 degrees
 - D. 60 degrees

Answers

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

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Explanations

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1. What is the maximum size conductor that can be terminated using a 200A load break elbow?

- A. 150
- B. 200
- C. 250**
- D. 300

The maximum size conductor that can be terminated using a 200A load break elbow is indeed 250. Load break elbows are designed for specific current ratings and conductor sizes, balancing the need for sufficient capacity while ensuring safe and reliable operation. In the case of a 200A load break elbow, while it is rated for a continuous current of 200A, it can accommodate larger conductors up to 250, allowing for efficient transfer of electricity while adhering to safety standards and providing some headroom for potential overloads. This sizing consideration is crucial, as using conductors that are too small can lead to overheating and potential failure in the system, while larger conductors can help minimize voltage drop and enhance performance along the distribution line. The other options, including 150, 200, and 300, do not reflect the correct maximum conductor size for this application as they either fall below or exceed the designed specifications of the elbow, which is key to maintaining system integrity and performance.

2. What is the recommended minimum insulation-resistance value for an acceptance test on random-wound stator coils and form-wound coils below 1 kV?

- A. 5 Megohms**
- B. 10 Megohms
- C. 1 Megohm
- D. 15 Megohms

The recommended minimum insulation-resistance value for acceptance testing of random-wound stator coils and form-wound coils below 1 kV is 5 Megohms. This value is significant because it ensures that the insulation in these coils is functioning properly and that there are no weaknesses that could lead to electrical failures or safety hazards. A minimum resistance of 5 Megohms indicates a good level of insulation, providing confidence that the coils will perform reliably under operating conditions. If the insulation resistance is lower than this threshold, it may suggest the presence of moisture, contamination, or deterioration of the insulation material, which could result in electrical leakage or shorts. The other values presented do not align with the general industry standards for insulation resistance testing of such equipment under these conditions, which typically advise for a minimum of 5 Megohms as a baseline for acceptable insulation integrity.

3. In calculating power in a three-phase circuit, the product of line voltage and line current is multiplied by which value?

- A. 2.618
- B. 1.732**
- C. 3.414
- D. 1.414

In a three-phase circuit, when calculating power, the product of the line voltage and the line current is multiplied by the square root of three, which is approximately 1.732. This factor accounts for the relationship between line and phase quantities in a three-phase system. In three-phase systems, the power (often referred to as active or real power) can be calculated using the formula: $P = \sqrt{3} \times V_L \times I_L \times \text{Power Factor}$ Where P is the total power, V_L is the line voltage, I_L is the line current, and the power factor accounts for the phase difference between voltage and current if it is not unity. The square root of three arises because the power in three-phase systems is derived from the combination of three sinusoidal currents that are phase-shifted by 120 degrees from each other. The other values provided do not accurately represent any significant factor in the calculation of power in three-phase circuits.

4. Suppose two 50 mH inductors are connected in parallel with each other. What will their combined inductance be?

- A. 100 mH
- B. 50 mH
- C. 25 mH**
- D. 75 mH

When two inductors are connected in parallel, the total or equivalent inductance can be found using the formula for inductors in parallel. For two inductors with the same inductance value L , the formula simplifies to $L_{\text{total}} = \frac{L}{n}$, where n is the number of inductors in parallel. In this case, you have two inductors, each with an inductance of 50 mH. So, applying the formula: $L_{\text{total}} = \frac{50 \text{ mH}}{2} = 25 \text{ mH}$ This means that when the two 50 mH inductors are connected in parallel, their combined inductance will be 25 mH. The characteristic of inductors in parallel is that the total inductance decreases, as compared to a single inductor's value. This aligns with the calculated result of 25 mH, making it the correct answer in this scenario.

5. What is the voltage rate of rise for an ASTM D1816 test?

- A. 1 kV/s
- B. 0.1 kV/s
- C. 0.5 kV/s**
- D. 2 kV/s

The ASTM D1816 test, utilized for assessing the dielectric strength of electrical insulating liquids, specifically signifies an important operational parameter known as the voltage rate of rise. For this test, a rate of 0.5 kV/s is established to ensure a controlled and standardized assessment of the dielectric breakdown voltage of the insulating liquid. This rate allows for a sufficient increase in voltage that ensures accurate measurement while minimizing the risk of electrical discharge occurring too rapidly, which could lead to erroneous results or damage to the test setup. By adhering to this specified rate, the methodology fosters repeatability and reliability in evaluations, which is critical for quality assurance in electrical insulation applications. Therefore, a voltage rate of rise of 0.5 kV/s is the correct choice that aligns with established guidelines for this particular testing standard.

6. Which of the following methods is NOT a valid approach for reducing arc energy in circuit breakers?

- A. Energy-reducing active arc flash mitigation system
- B. Increasing the instantaneous trip setting**
- C. Differential relaying
- D. Energy-reducing maintenance switching

Increasing the instantaneous trip setting does not effectively reduce arc energy in circuit breakers. The instantaneous trip setting determines the threshold at which the circuit breaker will trip in response to a fault condition. By increasing this setting, you essentially raise the level of fault current required to initiate a trip, which can result in a longer duration of arcing before the breaker disconnects the circuit. The objective of reducing arc energy is to minimize the energy release during an arc flash incident, thereby reducing the potential for injury and equipment damage. Other methods, such as energy-reducing active arc flash mitigation systems and energy-reducing maintenance switching, are specifically designed to detect and reduce the impact of arcing events by reacting quickly and lowering the energy during such occurrences. Differential relaying also works to provide faster fault detection by comparing the currents entering and leaving a section of the circuit, which helps in timely tripping to reduce arc energy. Thus, increasing the instantaneous trip setting contradicts the goal of reducing arc energy, making it the option that does not align with effective arc flash mitigation strategies.

7. Which ANSI/IEEE standard addresses SF6 circuit breakers?

- A. C37.10
- B. C37.04**
- C. C37.20
- D. C37.30

The ANSI/IEEE standard that addresses SF6 circuit breakers is C37.04. This standard specifically outlines the general requirements and test methods for circuit breakers, including those that use sulfur hexafluoride (SF6) as an insulating and quenching medium. SF6 circuit breakers are known for their excellent insulation properties and their ability to interrupt current in a compact design, making this standard crucial for ensuring the safe and reliable use of these devices in electrical systems. This standard provides guidance on the performance testing and operational characteristics necessary for certification, thereby ensuring that manufacturers meet specific reliability and safety metrics associated with SF6 technology. Understanding this standard is important for professionals involved in the design, testing, and maintenance of circuit breakers to ensure compliance and effective operation within electrical infrastructures.

8. Which technology is renowned for its ability to sustain high-speed data transmission without significant loss over distances?

- A. Coaxial cables
- B. Fiber optics**
- C. Twisted pair wiring
- D. Electrical cabling

Fiber optics is renowned for its ability to sustain high-speed data transmission over long distances with minimal loss. This technology uses light to transmit data, which allows for much higher bandwidth compared to other mediums. The light travels through glass or plastic fibers, effectively reducing signal degradation that typically occurs in copper-based cabling, such as coaxial cables or twisted pair wiring. Fiber optics not only minimizes loss due to its inherent properties but also supports much faster data rates, making it ideal for applications requiring rapid data transfer, such as internet backbones and telecommunications. The efficiency and capacity of fiber optic technology enable it to handle vast amounts of data simultaneously, which is increasingly important in today's digital world, where high-speed internet and data services are in high demand.

9. Who is responsible for performing a risk assessment according to OSHA?

- A. The contractor
- B. The employee
- C. The employer**
- D. The safety officer

The employer is responsible for performing a risk assessment according to OSHA regulations. This duty entails identifying and evaluating hazards in the workplace to ensure that appropriate measures are in place to mitigate risks. Employers must take proactive steps to create a safe working environment and are legally obligated to follow OSHA standards, which includes conducting regular assessments of potential hazards. This responsibility is crucial because it helps prevent workplace injuries and illnesses, aligns with compliance requirements, and fosters a culture of safety within the organization. Employers must also implement the findings of the risk assessment by training employees, instituting control measures, and monitoring the effectiveness of these actions. The emphasis on employer responsibility integrates safety into the broader organizational structure, ensuring that safety is not only a task but a priority within the workplace culture.

10. In a right triangle, if one side is 5 and another side is 4, what is the angle adjacent to the side that measures 5?

- A. 45 degrees
- B. 38.66 degrees**
- C. 53.13 degrees
- D. 60 degrees

To find the angle adjacent to the side that measures 5 in a right triangle where the other leg measures 4, we can use trigonometric functions. Specifically, we can utilize the cosine function, as it relates the adjacent side to the hypotenuse. First, we determine the length of the hypotenuse using the Pythagorean theorem: $c = \sqrt{a^2 + b^2} = \sqrt{5^2 + 4^2} = \sqrt{25 + 16} = \sqrt{41}$. Now, we can calculate the cosine of the angle adjacent to the side measuring 5: $\cos(\theta) = \frac{\text{Adjacent side}}{\text{Hypotenuse}} = \frac{5}{\sqrt{41}}$. To find the angle, we take the arccosine (inverse cosine): $\theta = \arccos\left(\frac{5}{\sqrt{41}}\right)$. Calculating this gives us an angle of approximately 38.66 degrees, which corresponds with the second option provided. Therefore, this angle represents the angle adjacent to the side measuring 5.

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://netaettcertassistantlvl3.examzify.com>

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

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