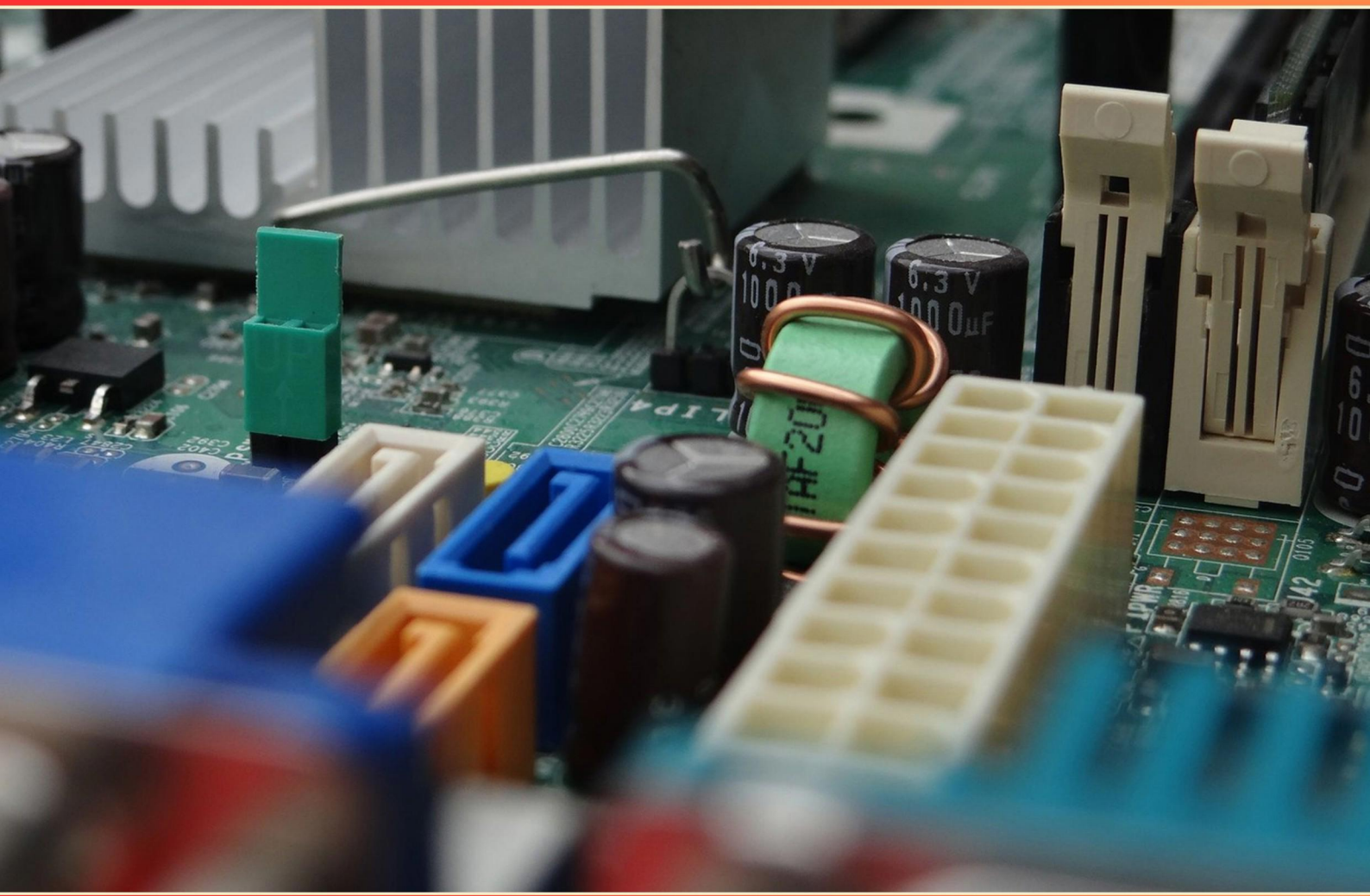
ELECTRICAL ENGINEERING (EE) LAWS PRACTICE EXAM (SAMPLE)

STUDY GUIDE



SAMPLE STUDY GUIDE WITH LIMITED QUESTIONS

VISIT US ONLINE FOR THE FULL VERSION STUDY GUIDE

https://eelaws.examzify.com

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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.

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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!

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Questions

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1. What is the primary safety objective of a facility grounding system design?

A. Minimize stray ground currents by using insulated equipment

B. Create a defined path to earth to stabilize voltages and limit fault currents

C. Eliminate grounding altogether to reduce complexity

D. Use high impedance grounding to reduce fault detection

2. Which NEC article covers receptacle outlets location and spacing in dwelling units?

A. 210

B. 690

C. 705

D. 430

3. PRC was created under which Presidential Decree?

A. PD 223

B. PD 230

C. PD 150

D. PD 170

4. Who selects the list of recommendees used to fill board vacancies?

A. PRC commissioner

B. President of the Philippines

C. Board of Electrical Engineering

D. Senate

5. What is the primary purpose of a bonding jumper in an electrical system?

A. Connects the system to earth ground.

B. Binds the service panel to the building frame.

C. Connects conductive parts to maintain equipotential.

D. Provides a separate grounding electrode.

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6. Why are permits and inspections required prior to energizing electrical installations?

A. To verify compliance with codes and safety standards and ensure safe operation before power is connected.

B. To estimate project cost and schedule.

C. To determine equipment brand preference.

D. To document warranty coverage after installation.

7. Vacancies of the Board of Electrical Engineering shall be filled by the _____ from the list of recommendees selected by the PRC commissioner.

A. Prime Minister

B. Senate

C. Vice President

D. President of the Philippines

8. NFPA 70E is published to address electrical safety in the workplace. Is it typically mandatory by law?

A. OSHA issues NFPA 70E.

B. UL issues NFPA 70E.

C. NFPA publishes NFPA 70E; standards are typically voluntary unless adopted into law/regulation.

D. IEEE publishes NFPA 70E.

9. On which documents is a seal typically required?

A. Marketing brochures.

B. Preliminary sketches.

C. Final construction documents and permit records.

D. Invoices.

10. Which statement best describes the NFPA 70E standard's scope in electrical safety?

A. It focuses on electrical safety in the workplace

B. It covers arc flash phenomena exclusively

C. It defines installation practices for household wiring

D. It addresses power generation economics

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Answers

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

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Explanations

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1. What is the primary safety objective of a facility grounding system design?

A. Minimize stray ground currents by using insulated equipment

B. Create a defined path to earth to stabilize voltages and limit fault currents

C. Eliminate grounding altogether to reduce complexity

D. Use high impedance grounding to reduce fault detection

Providing a defined, low-impedance path to earth for fault currents is the safety objective of a facility grounding system. This path lets any fault current return to the source quickly, causing protective devices to trip and keeping exposed surfaces at safe voltages relative to earth. Grounding also stabilizes voltages by tying equipment frames and conductors to earth, reducing shock risk during normal operation. The other options don't achieve this quick, reliable fault-clearing capability: insulating equipment to minimize stray currents removes the essential fault path; removing grounding altogether eliminates a stable earth reference and a fast fault path; and high-impedance grounding limits fault current but can delay protection tripping, undermining safety.

2. Which NEC article covers receptacle outlets location and spacing in dwelling units?

A. 210

B. 690

C. 705

D. 430

The need to know where receptacle outlets should be placed and how far apart they must be is governed by NEC Article 210. This section covers branch circuits and specifically sets the rules for receptacle placement in dwelling units to ensure outlets are readily accessible and adequately distributed around living spaces. The other listed articles address different systems—690 deals with solar photovoltaic installations, 705 with interconnections of power sources, and 430 with motors and motor circuits—so they don't apply to dwelling receptacle location and spacing.

3. PRC was created under which Presidential Decree?

A. PD 223

B. PD 230

C. PD 150

D. PD 170

The main idea is identifying which decree established the Professional Regulation Commission. The PRC was created by Presidential Decree No. 223, issued in 1973. This decree centralized the regulation, licensure, and discipline of professionals by forming the PRC to oversee professional boards. The other decrees listed pertain to different government reorganizations or functions and do not establish the PRC.

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4. Who selects the list of recommendees used to fill board vacancies?

A. PRC commissioner

B. President of the Philippines

C. Board of Electrical Engineering

D. Senate

The person in charge is the PRC commissioner. In the process for filling board vacancies, the Professional Regulation Commission handles the nomination pipeline and selects the pool of qualified recommendees to be considered for appointment. The President may appoint from that pool (often with Senate confirmation), but the actual selection of who is on the list comes from the PRC commissioner's oversight. The other options don't fit because they don't curate the recommendee pool—those roles relate to appointment or confirmation, not the initial selection of candidates.

5. What is the primary purpose of a bonding jumper in an electrical system?

A. Connects the system to earth ground.

B. Binds the service panel to the building frame.

C. Connects conductive parts to maintain equipotential.

D. Provides a separate grounding electrode.

Bonding jumpers create a low-impedance link between metal parts so they stay at the same electrical potential. By tying exposed conductors, enclosures, pipes, and other conductive components together, any fault current has a direct path to trip the protective device and minimizes dangerous voltage differences that could shock someone who touches two different metal surfaces. This is about equipotential bonding among conductive parts, not about connecting the system to earth ground or establishing a separate grounding electrode.

6. Why are permits and inspections required prior to energizing electrical installations?

A. To verify compliance with codes and safety standards and ensure safe operation before power is connected.

B. To estimate project cost and schedule.

C. To determine equipment brand preference.

D. To document warranty coverage after installation.

Permits and inspections are required to ensure electrical work complies with safety codes and is safe before any power is turned on. Electrical installations carry risks such as electric shock, fire, and arc faults if wiring, grounding, or overcurrent protection isn't done correctly. The permit process brings plan review to check that the design uses appropriate conductor sizes, protection devices, grounding and bonding, and safe wiring methods, while the inspection step confirms in the field that what's installed matches those requirements. This two-step check helps catch mistakes, ensure proper clearances and labeling, verify that safety features like emergency disconnects are in place, and authorize energizing only when the installation meets the code and safety standards. Other activities like estimating costs, choosing equipment brands, or documenting warranty coverage aren't the purpose of this process; they occur separately from ensuring safe operation before power is connected.

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7. Vacancies of the Board of Electrical Engineering shall be filled by the _____ from the list of recommendees selected by the PRC commissioner.

A. Prime Minister

B. Senate

C. Vice President

D. President of the Philippines

Vacancies on the professional regulatory boards are filled by the President of the Philippines from a list of recommendees prepared by the PRC commissioner. This arrangement puts the final appointment in the hands of the President, while the PRC handles screening and nomination to ensure the candidates are qualified. The other options don't fit because there is no Prime Minister in the Philippines, the Senate does not make these board appointments, and the Vice President does not fill them.

8. NFPA 70E is published to address electrical safety in the workplace. Is it typically mandatory by law?

A. OSHA issues NFPA 70E.

B. UL issues NFPA 70E.

C. NFPA publishes NFPA 70E; standards are typically voluntary unless adopted into law/regulation.

D. IEEE publishes NFPA 70E.

NFPA 70E is a safety standard published by NFPA that lays out electrical safety requirements for the workplace, including arc-flash hazard analysis, PPE, and safe work practices. It isn't a law by itself. Whether it becomes mandatory depends on adoption by a regulatory authority. In practice, it becomes mandatory when OSHA or a state/local regulation references or adopts it, or when an employer chooses to follow it to meet legal compliance and reduce liability. Outside of adopted regulations, it remains a voluntary guideline that organizations can implement to structure their safety programs. NFPA is the publisher of 70E; UL is a testing organization, and IEEE is a standards body, but neither publishes NFPA 70E.

9. On which documents is a seal typically required?

A. Marketing brochures.

B. Preliminary sketches.

C. Final construction documents and permit records.

D. Invoices.

Seals are used on the official construction package to show that a licensed professional has reviewed and is accountable for the design. The seal on final construction documents and permit records communicates that these documents are ready for submission to authorities and for actual construction, meeting codes and standards and carrying professional responsibility. Marketing brochures and preliminary sketches aren't the final, permit-ready design packages, so they aren't typically sealed. Invoices are financial records, not design documents, so they don't require a seal either. Thus, final construction documents and permit records are the documents that typically require a seal.

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10. Which statement best describes the NFPA 70E standard's scope in electrical safety?

A. It focuses on electrical safety in the workplace

B. It covers arc flash phenomena exclusively

C. It defines installation practices for household wiring

D. It addresses power generation economics

The main idea tested is what NFPA 70E actually covers. NFPA 70E is the standard for Electrical Safety in the Workplace, so its scope is about protecting workers from electrical hazards on the job. It provides requirements for safe work practices, training, personal protective equipment, and engineering and administrative controls, plus the analysis and procedures needed to manage hazards like shock and arc flash while performing electrical tasks. This standard is not about installation practices for wiring (that's governed by the NEC) and it isn't focused only on arc flash phenomena (arc flash is a major hazard addressed, but the standard covers a broader range of electrical safety topics and the overall safety program, including de-energization, lockout/tagout, boundaries, and qualification of workers). It also has nothing to do with power generation economics. So the best description is that it centers on electrical safety in the workplace.

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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://eelaws.examzify.com

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

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