

ELECTRIC RELIABILITY COUNCIL OF TEXAS (ERCOT) PRACTICE TEST (SAMPLE)

STUDY GUIDE



SAMPLE STUDY GUIDE WITH LIMITED QUESTIONS

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THE FULL VERSION STUDY GUIDE**

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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. Which statement is true about Voltage Support Service (VSS) within ERCOT ancillary services?**
- A. VSS is an ancillary service type.
 - B. VSS is not used by ERCOT.
 - C. VSS is the same as Blackstart Service.
 - D. VSS requires continuous online operation for a year.
- 2. Which set of subcommittees accurately makes up the ERCOT technical advisory committee?**
- A. PRS - Protocol Revision Subcommittee; WSS - Wholesale Market Subcommittee; RSS - Retail Market Subcommittee; ROS - Reliability & Operations Subcommittee; COPS - Commercial Operations Subcommittee
 - B. WSS - Wholesale Market Subcommittee; RSS - Retail Market Subcommittee; ROS - Reliability & Operations Subcommittee; COPS - Commercial Operations Subcommittee
 - C. PRS - Protocol Revision Subcommittee; WSS - Wholesale Market Subcommittee; RSS - Retail Market Subcommittee; ROS - Reliability & Operations Subcommittee; COPS - Commercial Operations Subcommittee
 - D. PRS - Protocol Revision Subcommittee; RSS - Retail Market Subcommittee; ROS - Reliability & Operations Subcommittee; COPS - Commercial Operations Subcommittee
- 3. What does ERCOT issue in an emergency condition that could cause uncontrollable separation or large-scale disruption?**
- A. Advisory
 - B. Watch
 - C. Alert
 - D. Emergency Notice
- 4. What does RRS stand for in the ERCOT context?**
- A. Rapid Response Signal
 - B. Reliability Reserve System
 - C. Reserve Response Schedule
 - D. Responsive Reserve Service

- 5. Which statement best defines Transmission Congestion?**
- A. The system is operating within all security limits
 - B. The system is approaching thermal or load-based limits and at risk
 - C. The system has excess capacity
 - D. The system is only limited by economic constraints
- 6. Which of the following is an ERCOT Nodal Market component?**
- A. Market Research
 - B. Customer Billing
 - C. Insurance Payouts
 - D. Day-Ahead Market
- 7. What is the normal voltage range for 138 kV lines?**
- A. 131.1 - 144.9 kV
 - B. 124.2 - 151.8 kV
 - C. 135.0 - 145.0 kV
 - D. 128.0 - 160.0 kV
- 8. Which option describes the seven-day forecast for reliability planning?**
- A. Determine tariffs for next month
 - B. Schedule maintenance outages
 - C. Forecast Load and Resources for the next seven days for reliability planning.
 - D. Forecast Weather for next week
- 9. Who interfaces with the Wide Area Network (WAN) Participants?**
- A. QSE
 - B. TSP
 - C. ERCOT
 - D. NERC
- 10. Which acronym represents automatic actions to maintain system security?**
- A. RASs
 - B. RAPs
 - C. AMPs
 - D. Mitigation Plans

Answers

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

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Explanations

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1. Which statement is true about Voltage Support Service (VSS) within ERCOT ancillary services?

- A. VSS is an ancillary service type.**
- B. VSS is not used by ERCOT.
- C. VSS is the same as Blackstart Service.
- D. VSS requires continuous online operation for a year.

Voltage Support Service is an established ancillary service category in ERCOT that focuses on keeping system voltage within limits by providing or absorbing reactive power (VARs) at key locations on the grid. Resources such as generators with reactive-power capability, and some loads or storage assets, can participate and be dispatched by the operator to support voltage when conditions threaten voltage stability. This service is actively used by ERCOT to manage voltage during stress events, outages, or heavy loading, helping prevent voltage collapse or excessive flicker. It isn't correct to say ERCOT doesn't use it, since VSS is a recognized part of ERCOT's ancillary services framework. It isn't the same as Blackstart Service, which is specifically for restoring power after a blackout. And it doesn't require continuous online operation for a year; resources provide voltage support as contracted and dispatched as needed, not perpetually online for an entire year.

2. Which set of subcommittees accurately makes up the ERCOT technical advisory committee?

- A. PRS - Protocol Revision Subcommittee; WSS - Wholesale Market Subcommittee; RSS - Retail Market Subcommittee; ROS - Reliability & Operations Subcommittee; COPS - Commercial Operations Subcommittee**
- B. WSS - Wholesale Market Subcommittee; RSS - Retail Market Subcommittee; ROS - Reliability & Operations Subcommittee; COPS - Commercial Operations Subcommittee
- C. PRS - Protocol Revision Subcommittee; WSS - Wholesale Market Subcommittee; RSS - Retail Market Subcommittee; ROS - Reliability & Operations Subcommittee; COPS - Commercial Operations Subcommittee
- D. PRS - Protocol Revision Subcommittee; RSS - Retail Market Subcommittee; ROS - Reliability & Operations Subcommittee; COPS - Commercial Operations Subcommittee

The ERCOT Technical Advisory Committee is organized around five subcommittees that cover the main areas where technical and market issues arise: Protocol Revision Subcommittee handles updates to market rules and technical standards; Wholesale Market Subcommittee focuses on wholesale market design and operations; Retail Market Subcommittee addresses retail market design and customer interactions; Reliability & Operations Subcommittee concentrates on grid reliability, system operations, and performance; Commercial Operations Subcommittee deals with the commercial and data/settlements side of market transactions. Together, these five areas span the full scope of technical input ERCOT uses to review and advise on market rules, operations, and reliability. Any set that omits one of these areas or adds a non-existent subcommittee wouldn't accurately reflect the committee's structure, which is why the complete five-subcommittee combination is the correct one.

3. What does ERCOT issue in an emergency condition that could cause uncontrollable separation or large-scale disruption?

- A. Advisory
- B. Watch
- C. Alert

D. Emergency Notice

An Emergency Notice is issued when conditions threaten grid stability to the point of possible uncontrollable separation or large-scale disruption. This designation signals the need for immediate, coordinated emergency actions by the Reliability Coordinator and market participants. It communicates that normal operations aren't enough to prevent severe impacts, so quick steps are taken to restore balance and protect the system. Those steps can include rapid redeployment of generation, activating demand response, possible load shedding, and other protective measures to keep the lights on and prevent a wider blackout. This level of notice is more urgent than Advisory, Watch, or Alert, which are used for less severe or more uncertain conditions. The Emergency Notice specifically corresponds to a scenario where instability could escalate into uncontrolled separation or a major disruption, requiring swift, system-wide actions.

4. What does RRS stand for in the ERCOT context?

- A. Rapid Response Signal
- B. Reliability Reserve System
- C. Reserve Response Schedule

D. Responsive Reserve Service

In ERCOT, RRS stands for Responsive Reserve Service, an ancillary service that provides fast-acting reserve power to stabilize the grid after a disturbance, such as an unexpected loss of generation. It is designed to be available and deliver power quickly (typically within minutes) to bridge the gap until other resources can take over. This makes it distinct from spinning reserve (online, ready to increase output immediately) and non-spinning reserve (offline but can be started within a set time), as well as from regulation services that continuously fine-tune frequency. The official ERCOT term is Responsive Reserve Service, which is why that choice is the correct one.

5. Which statement best defines Transmission Congestion?

- A. The system is operating within all security limits
- B. The system is approaching thermal or load-based limits and at risk
- C. The system has excess capacity
- D. The system is only limited by economic constraints

Transmission congestion happens when the grid's ability to move electricity from generators to loads is limited by the physical capacity of the transmission network, with flows coming up against the network's limits. This means the system is near the points where lines or other facilities can no longer safely carry more power, i.e., approaching thermal or load-based limits and thus at risk of violating security constraints. When this happens, certain paths become constrained and the operator may need to take actions to relieve the constraint. That's why the statement describing the system as approaching thermal or load-based limits and at risk best captures congestion. If the system were within all security limits or had excess capacity, there would be no congestion. Economic constraints alone don't define congestion; it's the physical limits of the transmission network that create the constraint.

6. Which of the following is an ERCOT Nodal Market component?

- A. Market Research
- B. Customer Billing
- C. Insurance Payouts
- D. Day-Ahead Market**

In ERCOT's nodal market, the Day-Ahead Market serves as the forward planning mechanism for energy. It lets participants submit bids and offers for energy at each node for the next day, and the market solver determines a planned dispatch and nodal prices while accounting for transmission constraints. This forward scheduling helps align supply and demand before real-time operations and provides price signals that reflect where congestion might occur. The Day-Ahead Market works alongside the Real-Time Market, which handles actual delivery and adjustments as conditions change. The other options aren't market operations: Market Research and Customer Billing are administrative functions, and Insurance Payouts aren't part of the ERCOT market framework.

7. What is the normal voltage range for 138 kV lines?

- A. 131.1 - 144.9 kV**
- B. 124.2 - 151.8 kV
- C. 135.0 - 145.0 kV
- D. 128.0 - 160.0 kV

A 138 kV line is typically allowed to vary by about $\pm 5\%$ around its nominal voltage. Calculating that: $138 \text{ kV} \times 0.95 = 131.1 \text{ kV}$ and $138 \text{ kV} \times 1.05 = 144.9 \text{ kV}$. So the normal operating range is 131.1 to 144.9 kV. This band accounts for typical voltage regulation under load, tap changes, and reactive support. The other ranges either widen beyond what's normally considered steady-state operation or exclude part of the expected variation, so they don't match the standard normal window for 138 kV lines.

8. Which option describes the seven-day forecast for reliability planning?

- A. Determine tariffs for next month
- B. Schedule maintenance outages
- C. Forecast Load and Resources for the next seven days for reliability planning.**
- D. Forecast Weather for next week

Reliability planning focuses on ensuring the grid can meet expected demand in the near term. The seven-day forecast used for this purpose is a projection of the expected system load and the available resources over the next seven days, so planners can gauge whether there will be enough generation and transmission and decide on needed actions. This matches the intent exactly. Tariffs for next month relate to pricing rather than how the system will perform. Scheduling maintenance outages is a planning activity, not the forecast itself. Forecasting the weather for next week informs conditions that can affect load and outages, but the seven-day reliability forecast centers on load and resources.

9. Who interfaces with the Wide Area Network (WAN) Participants?

- A. QSE
- B. TSP
- C. ERCOT**
- D. NERC

The WAN is ERCOT's secure communications backbone that links market participants to ERCOT's systems for day-ahead and real-time operations, scheduling, and settlements. ERCOT operates and maintains the WAN and acts as the central point of contact for all WAN participants. Market participants such as Qualified Scheduling Entities and Transmission Service Providers connect to ERCOT through the WAN to exchange data and instructions, but ERCOT is the entity that interfaces with those participants and oversees the data flow. NERC is a standards body and does not function as the operational interface for the WAN. So, ERCOT is the party that interfaces with the WAN Participants.

10. Which acronym represents automatic actions to maintain system security?

- A. RASs**
- B. RAPs
- C. AMPs
- D. Mitigation Plans

Automatic actions to keep the grid secure are handled by Remedial Action Schemes. These are pre-programmed responses that trigger without human input as soon as certain conditions are met, such as high line loading or an unexpected generator loss. The goal is to stabilize the system quickly and prevent a small disturbance from cascading into a larger outage by automatically re-dispatching generation, tripping or reconfiguring lines, or taking other specified actions. Remedial Action Plans describe what actions should be taken, but they are typically executed manually or need operator intervention, so they aren't the automatic actions themselves. Other terms like automatic mitigation procedures or general mitigation plans don't denote the same built-in, automatic response feature. That combination of automatic, pre-defined responses is what defines Remedial Action Schemes.

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://ercot.examzify.com>

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

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