

POSTURAL CONTROL EXAM 3 PRACTICE (SAMPLE)

STUDY GUIDE



SAMPLE STUDY GUIDE WITH LIMITED QUESTIONS

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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 effect of fatigue on postural control and sway metrics?**
 - A. Fatigue only affects cognitive function.
 - B. Fatigue has no effect on postural control.
 - C. Fatigue decreases sway magnitude.
 - D. Fatigue increases sway magnitude and velocity, slows corrective responses, and may shift strategy toward more conservative or compensatory patterns, raising fall risk.
- 2. What are the two broad purposes for which we need postural control?**
 - A. Mobility and Balance
 - B. Strength and Endurance
 - C. Stability and Orientation
 - D. Flexibility and Agility
- 3. Which term describes the center of distribution of total force applied to the supporting surface?**
 - A. Center of Mass
 - B. Base of Support
 - C. Center of Gravity
 - D. Center of Pressure
- 4. Which statement correctly differentiates static sway measures from reactive balance measures?**
 - A. Static sway measures quantify quiet stance postural control; reactive measures assess responses to external perturbations
 - B. Static sway measures assess responses to perturbations; reactive measures quantify quiet stance
 - C. Static sway measures measure cognitive load
 - D. Static sway measures assess gaze stabilization
- 5. Limits of Stability (LoS) are boundaries in which CoP can be without losing balance or changing BoS. Which option best reflects this definition?**
 - A. Boundaries Within Which CoP Can Be Without Losing Balance or Changing BoS
 - B. Maximum CoM Velocity
 - C. Length of Limbs
 - D. Surface Temperature

6. What is the margin of stability (MoS) in clinical balance assessment?

- A. The margin of stability is the distance between the boundary of the base of support and the extrapolated center of mass; computed from COP/COM trajectories or simplified measures to reflect how close the system is to losing balance.
- B. The margin of stability is the difference between predicted and actual step timing.
- C. The margin of stability is the distance from the ground to the center of mass.
- D. The margin of stability is the difference between center of pressure and the foot position.

7. What forward reach distance is typically associated with low fall risk in older adults?

- A. 5–8 inches (12–20 cm)
- B. 10–12 inches (25–30 cm)
- C. 15–18 inches (38–46 cm)
- D. 20–24 inches (51–61 cm)

8. What does sensory integration refer to in postural control?

- A. Brainstem reflex for posture
- B. Sensory reweighting of input only
- C. Muscular synergy for gait
- D. CNS integrating visual, somatosensory and vestibular info for postural control

9. Reactive postural control is maintained by which mechanism?

- A. Automatic motor responses to CoM change
- B. Conscious voluntary adjustments
- C. Visual tracking of the environment
- D. Random, uncoordinated muscle activation

10. In vestibular loss, which balance assessment tasks are most sensitive to impairment during dynamic activities that include head movements and directional changes?

- A. Static balance on a firm surface
- B. Dynamic tests with head movements and directional changes such as DGI or FGA
- C. Single-leg stance on foam
- D. Tandem walking at a comfortable pace

Answers

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

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Explanations

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1. What is the effect of fatigue on postural control and sway metrics?

- A. Fatigue only affects cognitive function.
- B. Fatigue has no effect on postural control.
- C. Fatigue decreases sway magnitude.
- D. Fatigue increases sway magnitude and velocity, slows corrective responses, and may shift strategy toward more conservative or compensatory patterns, raising fall risk.**

Fatigue disrupts postural control by weakening the neuromuscular commands and sensory processing that keep you stable. As you become fatigued, it's harder to generate rapid, precise corrective actions, so sway magnitude and sway velocity tend to increase. The system also slows in its ability to initiate and execute corrective responses, leading to longer response times after a destabilizing movement. Because the ankle strategy becomes less reliable with fatigue, people often rely more on proximal or compensatory strategies (like hip motions or stepping) to regain balance, which changes the overall pattern of sway and can raise the risk of a fall. In short, fatigue makes balance more variable and mistakes in correction slower, while pushing the system toward more guarded or compensatory strategies.

2. What are the two broad purposes for which we need postural control?

- A. Mobility and Balance
- B. Strength and Endurance
- C. Stability and Orientation**
- D. Flexibility and Agility

Postural control has two broad purposes: keeping the body stable in the face of gravity and disturbances, and maintaining proper orientation of the body in space to meet the demands of the task. Stability means resisting shifts that could throw you off balance, keeping the head, trunk, and limbs aligned over the base of support so you don't fall during standing, walking, or standing on uneven surfaces. Orientation involves using sensory information to keep your body segments aligned with the environment and the task—knowing where you are, how you're facing, and how to position yourself for reaching, stepping, or adjusting to changes in the surroundings. These two aims—stability and orientation—together capture the core purpose of postural control. The other descriptions refer to different aspects of fitness or movement, like how strong or flexible you are, or how quickly you can move, but they don't define the fundamental goals of postural control.

3. Which term describes the center of distribution of total force applied to the supporting surface?

- A. Center of Mass
- B. Base of Support
- C. Center of Gravity
- D. Center of Pressure**

The main idea is the location where the total contact force from the body is applied to the support surface. When you stand or balance, all forces from muscles and gravity combine into a single ground reaction force, and the point where this resultant force acts on the surface is the center of pressure. It can shift as you sway or shift weight, reflecting how the pressure distribution under the feet changes. This concept is distinct from the center of mass or center of gravity, which describe where the body's mass is concentrated and how gravity acts on it, not where the external force is applied on the ground. The base of support is simply the area in contact with the surface; the center of pressure moves within that area as you adjust posture. So the term describing the center of distribution of total force applied to the supporting surface is the center of pressure.

4. Which statement correctly differentiates static sway measures from reactive balance measures?

- A. Static sway measures quantify quiet stance postural control; reactive measures assess responses to external perturbations**
- B. Static sway measures assess responses to perturbations; reactive measures quantify quiet stance
- C. Static sway measures measure cognitive load
- D. Static sway measures assess gaze stabilization

The essential distinction is between balance during stillness and balance in response to a disturbance. Static sway tests examine quiet stance postural control, measuring how much and how the body sways when there's no intentional perturbation (using metrics like sway area, path length, and velocity of the center of pressure). Reactive balance tests, on the other hand, assess how the system responds to an external perturbation, looking at recovery performance such as time to stabilization, corrective steps, or ankle/hip strategies after a push or platform move. So the statement that static sway measures quantify quiet stance while reactive measures assess responses to external perturbations captures this key difference. The other options aren't the defining contrast: cognitive load isn't the primary feature of static sway, and gaze stabilization isn't the central distinction between quiet stance control and reactive responses.

5. Limits of Stability (LoS) are boundaries in which CoP can be without losing balance or changing BoS. Which option best reflects this definition?

- A. Boundaries Within Which CoP Can Be Without Losing Balance or Changing BoS**
- B. Maximum CoM Velocity
- C. Length of Limbs
- D. Surface Temperature

The main idea here is that limits of stability are the boundaries of how far the center of pressure can move while you stay balanced within your current base of support. When you sway, your CoP shifts inside the base of support (your feet). As long as it stays within those limits, your muscles make small adjustments to keep you upright without needing to move your feet. If the CoP crosses the edge of that zone, balance is at risk and you'd typically need to change your base of support, such as by taking a step. So the best choice is the one that describes boundaries within which the CoP can move without losing balance or changing BoS. The other options don't fit: maximum CoM velocity is about speed, not a boundary; length of limbs isn't about sway limits; surface temperature is unrelated to postural control.

6. What is the margin of stability (MoS) in clinical balance assessment?

- A. The margin of stability is the distance between the boundary of the base of support and the extrapolated center of mass; computed from COP/COM trajectories or simplified measures to reflect how close the system is to losing balance.**
- B. The margin of stability is the difference between predicted and actual step timing.
- C. The margin of stability is the distance from the ground to the center of mass.
- D. The margin of stability is the difference between center of pressure and the foot position.

The margin of stability measures how close the body's current dynamic state is to tipping over by comparing the extrapolated center of mass to the edge of the base of support. The extrapolated center of mass (XCoM) combines where the body's center of mass is and how fast it's moving, providing a predictor of where balance would be given the present momentum. The margin of stability is the distance from the boundary of the base of support to this XCoM. A positive value means you're still within the stability boundary, a small (near-zero) value means you're close to losing balance, and a negative value indicates instability. In practice, MoS can be computed from COP/COM trajectories during standing or walking, or estimated with simpler measures, to reflect how near the system is to losing balance. Clinically, a smaller MoS signals reduced stability or higher fall risk and can help track balance impairments or improvements after intervention. The other options don't fit because they describe timing differences, vertical height of the center of mass, or a direct COP-foot position difference, none of which capture the dynamic relationship between the base of support boundary and the moving body's momentum that MoS represents.

7. What forward reach distance is typically associated with low fall risk in older adults?

- A. 5–8 inches (12–20 cm)
- B. 10–12 inches (25–30 cm)**
- C. 15–18 inches (38–46 cm)
- D. 20–24 inches (51–61 cm)

The key idea is that forward stability is assessed by how far someone can reach without stepping, using the Functional Reach principle. A reach of about ten inches or more demonstrates sufficient balance control and trunk/hip coordination to move the upper body forward while keeping the feet stationary. This level of forward displacement indicates a lower risk of falling because the person can shift their center of mass within their base of support without needing to take a step. Distances smaller than this suggest limited stability and higher fall risk, while much larger reaches are not typical in most older adults. So, ten to twelve inches (about 25–30 cm) is the range most commonly associated with low fall risk.

8. What does sensory integration refer to in postural control?

- A. Brainstem reflex for posture
- B. Sensory reweighting of input only
- C. Muscular synergy for gait
- D. CNS integrating visual, somatosensory and vestibular info for postural control**

In postural control, sensory integration means the central nervous system takes input from the visual system, somatosensory information from the body, and vestibular signals from the inner ear, and combines them to form a coherent sense of body position and movement. This integrated signal guides the appropriate muscle responses to keep us upright and balanced, and it can adjust which inputs are weighted more heavily depending on the situation. For example, standing on a firm surface with eyes open uses all three sources to verify orientation; on a foam surface with eyes closed, somatosensory input is less reliable, so the brain shifts to rely more on vestibular and visual cues to maintain balance. This goes beyond a simple reflex or a single cue, encompassing the dynamic coordination of multiple sensory streams to control posture.

9. Reactive postural control is maintained by which mechanism?

- A. Automatic motor responses to CoM change**
- B. Conscious voluntary adjustments
- C. Visual tracking of the environment
- D. Random, uncoordinated muscle activation

Reactive postural control relies on automatic, rapid motor responses triggered by shifts in the body's center of mass. When a perturbation displaces the CoM, the nervous system quickly activates coordinated muscle patterns to restore upright balance without conscious thought. These reflex-like reactions are fast and rely on spinal and brainstem circuits to deploy ankle, hip, or stepping strategies as needed. While conscious adjustments and visual information can aid balance, the core mechanism of reactive control is the automatic response to the perturbation itself, not deliberate, voluntary actions or random, uncoordinated muscle activity.

10. In vestibular loss, which balance assessment tasks are most sensitive to impairment during dynamic activities that include head movements and directional changes?

- A. Static balance on a firm surface
- B. Dynamic tests with head movements and directional changes such as DGI or FGA**
- C. Single-leg stance on foam
- D. Tandem walking at a comfortable pace

Dynamic balance when the head moves and directions change is what most reveals vestibular impairment because the vestibular system directly supports gaze stabilization and postural adjustments during head motion. Tasks that require turning the head, looking in different directions, and changing walking direction place high demands on the vestibulo-ocular and vestibulospinal pathways, showing deficits that static or non-head-movement tasks may mask. Dynamic gait tests like the Dynamic Gait Index and Functional Gait Assessment specifically include head turns and rapid directional changes, challenging how well a person can integrate sensory inputs (vestibular, visual, and proprioceptive) and generate appropriate motor responses. In vestibular loss, these dynamic head-movement tasks reveal instability and compensatory strategies that aren't as evident on static tests. Static balance on a firm surface can be well-compensated with vision and proprioception, so it often appears adequate despite vestibular deficits. Single-leg stance on foam stresses balance but not necessarily the head-motion and directional-change demands. Tandem walking at a comfortable pace assesses coordination but may not push the head-rotation and rapid direction-change demands that uncover vestibular-specific impairments.

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://posturalcontrol3.examzify.com>

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

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