

# Building Automation Level II Practice Exam (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 is used to control the descent of a hydraulic elevator?**
  - A. Hydraulic Fluid**
  - B. Counterweight**
  - C. Gear**
  - D. Brake Pad**
  
- 2. Which elevator is reserved exclusively for building service personnel?**
  - A. Express Elevator**
  - B. Service Elevator**
  - C. Hydraulic Elevator**
  - D. Machine Room-Less Elevator**
  
- 3. A security system is managed by a(n) ? that interfaces with all other security devices and, as necessary, other building systems.**
  - A. Central control panel**
  - B. Main electrical panel**
  - C. Security guard**
  - D. Cloud server**
  
- 4. The term that identifies the set of fittings installed on a fixture to regulate water entering and leaving is called?**
  - A. Fixture trim**
  - B. Shutoff valve**
  - C. Vent stack**
  - D. Domestic water line**
  
- 5. In the sequential algorithm, how are remaining calls in the current travel direction treated?**
  - A. Continue in the same direction as long as there are remaining calls in that direction.**
  - B. Stop at every floor in the same direction regardless of calls.**
  - C. Reverse direction immediately.**
  - D. Ignore all calls and stay idle.**

- 6. The maximum number of pixels that can be displayed on a screen is referred to as what?**
- A. Display resolution**
  - B. Color depth**
  - C. Refresh rate**
  - D. Aspect ratio**
- 7. Which of the following is not a main component of a fire alarm system?**
- A. Suppression Gate Valve**
  - B. Fire Alarm Control Panel**
  - C. Initiating Devices**
  - D. Notification Appliances**
- 8. Phase two mode can override the shunt trip function.**
- A. True**
  - B. False**
  - C. Not applicable**
  - D. It depends on the elevator**
- 9. Some water-based fire suppression systems include ? because of uncertain reliability of the municipal water supply.**
- A. Water reservoirs**
  - B. Backflow preventers**
  - C. Booster pumps**
  - D. Water meters**
- 10. Which mode stations all available cars on a designated building floor in anticipation of many downward traveling passengers?**
- A. Up peak mode**
  - B. Down peak mode**
  - C. Independent service mode**
  - D. Inspect mode**

## Answers

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

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## **Explanations**

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**1. What is used to control the descent of a hydraulic elevator?**

**A. Hydraulic Fluid**

**B. Counterweight**

**C. Gear**

**D. Brake Pad**

Lowering speed in a hydraulic elevator is controlled by the hydraulic fluid flow. When the car descends, fluid is allowed to leave the cylinder and return to the reservoir through a metering valve or controlled passage. The size of that opening throttles the fluid flow, which directly sets how fast the piston retracts and the car lowers. The hydraulic fluid itself is the medium that transmits force and energy, so regulating its flow is the mechanism that controls descent. The other options don't fit this function in a hydraulic system: a counterweight is used in some non-hydraulic or different-drive elevators to balance load, a gear would be part of a mechanical drive train rather than the descent control, and a brake pad provides stopping friction but does not regulate the slow, controlled descent through fluid flow.

**2. Which elevator is reserved exclusively for building service personnel?**

**A. Express Elevator**

**B. Service Elevator**

**C. Hydraulic Elevator**

**D. Machine Room-Less Elevator**

In buildings, elevators are categorized by function and who can use them. The one reserved exclusively for building service personnel is the service elevator. It's designed for freight, deliveries, maintenance, and staff movement, with restricted access to authorized personnel. This setup keeps heavy or dirty work separate from passenger traffic, reducing delays and wear on passenger elevators while enhancing safety. Service elevators often have features like larger capacity, reinforced doors, and dedicated entrances, and they may use access controls to limit who can ride them. The other options don't denote exclusive access for staff. An express elevator is a fast route for passengers between distant floors, a hydraulic elevator is a type of drive mechanism used in certain building heights, and a machine room-less elevator is about the machine room configuration and efficiency—not about restricted usage for service personnel.

3. A security system is managed by a(n) ? that interfaces with all other security devices and, as necessary, other building systems.

**A. Central control panel**

**B. Main electrical panel**

**C. Security guard**

**D. Cloud server**

The central control panel acts as the hub for a security system. It interfaces with all security devices—sensors, cameras, door locks—and, when needed, with other building systems such as lighting or access control. It processes inputs, enforces the system's logic, and triggers alarms or notifications, coordinating actions across devices. The main electrical panel merely distributes power and doesn't manage security coordination. A security guard is a person, not a device that interfaces with the system. A cloud server might support remote monitoring, but the on-site central control panel is what directly interfaces with devices and integrates with other building systems.

4. The term that identifies the set of fittings installed on a fixture to regulate water entering and leaving is called?

**A. Fixture trim**

**B. Shutoff valve**

**C. Vent stack**

**D. Domestic water line**

Fixture trim refers to the set of fittings installed on a fixture that control water flow and delivery. This includes the visible components like handles, escutcheon, and the spout, and often the accompanying trim that houses the valve controls. Together, these parts regulate how water enters and leaves the fixture at the point of use. The other options describe separate elements: a shutoff valve is a single device used to stop water flow to a fixture, a vent stack handles drainage venting, and the domestic water line is the supply piping that brings water into the system.

5. In the sequential algorithm, how are remaining calls in the current travel direction treated?

**A. Continue in the same direction as long as there are remaining calls in that direction.**

**B. Stop at every floor in the same direction regardless of calls.**

**C. Reverse direction immediately.**

**D. Ignore all calls and stay idle.**

The idea being tested is that a sequential service strategy keeps moving in the current direction while there are still requests ahead in that direction. In practice, this means if the system is traveling upward, it continues moving up and services any pending calls on floors above. It does not stop at every floor unless there's a call there, and it does not reverse immediately or stay idle. Only when there are no remaining calls in the travel direction does it turn around to service the requests behind it. This approach minimizes back-and-forth travel and reduces waiting times by grouping requests in the same direction.

6. The maximum number of pixels that can be displayed on a screen is referred to as what?

- A. Display resolution**
- B. Color depth**
- C. Refresh rate**
- D. Aspect ratio**

Display resolution describes how many pixels a screen can show, usually given as width by height. This directly sets the total number of pixel positions on the screen at once—multiply the horizontal count by the vertical count to get the total pixel count. For example, 1920×1080 yields about 2.07 million pixels. Color depth refers to how many colors can be shown per pixel (bits per pixel), refresh rate to how many times the image is redrawn per second, and aspect ratio to the width-to-height proportion. So the term that matches the idea of the maximum number of pixels is display resolution.

7. Which of the following is not a main component of a fire alarm system?

- A. Suppression Gate Valve**
- B. Fire Alarm Control Panel**
- C. Initiating Devices**
- D. Notification Appliances**

The main idea is recognizing which parts are the essential pieces of a fire alarm system versus other fire protection subsystems. A fire alarm system's primary components are the Fire Alarm Control Panel (the brain), Initiating Devices (like smoke detectors and pull stations), and Notification Appliances (sirens and strobes). The suppression gate valve, however, belongs to the sprinkler or suppression system that controls water flow to the sprinklers. It is not a primary part of the fire alarm system, even though the two systems may interlock or share signals in an integrated setup. So the suppression gate valve is not a main component of a fire alarm system.

8. Phase two mode can override the shunt trip function.

- A. True**
- B. False**
- C. Not applicable**
- D. It depends on the elevator**

Phase two mode does not override the shunt trip function. A shunt trip is a safety device wired to immediately disconnect power to the elevator controller in an emergency. Its purpose is to override any normal or maintenance operating state to ensure the car cannot run when danger is present. Because safety interlocks must take precedence over operating modes, the shunt trip will trip and hold in a de-energized state regardless of whether the system is in phase two mode or any other mode. In short, safety functions are designed to override regular control to protect people and equipment, so the statement is not true.

**9. Some water-based fire suppression systems include ? because of uncertain reliability of the municipal water supply.**

**A. Water reservoirs**

**B. Backflow preventers**

**C. Booster pumps**

**D. Water meters**

The main idea is guaranteeing a dependable water supply for a fire suppression system when the municipal mains can't be trusted. Having a water reservoir on site provides a stored volume of water right where the system needs it, so the system can deliver its required flow even if city supply or pressure is unreliable. This stored water often works alongside a fire pump to maintain the necessary pressure and flow to sprinklers or standpipes during a fire, ensuring the system remains effective without relying solely on municipal feeds. Backflow preventers are about stopping contaminants from entering the potable water supply, not providing extra water during a failure. Booster pumps help with pressure, but they don't guarantee a sufficient volume if the external supply is unreliable. Water meters track usage, not supply reliability.

**10. Which mode stations all available cars on a designated building floor in anticipation of many downward traveling passengers?**

**A. Up peak mode**

**B. Down peak mode**

**C. Independent service mode**

**D. Inspect mode**

During down-peak periods, many passengers are traveling downward, so the elevator control concentrates all available cars on the floor most likely to receive those downward requests, typically the lobby. By stationing the cars there, riders descending from higher floors can board quickly, reducing wait times and efficiently handling the mass descent. This behavior defines down peak mode. Up peak mode would target upward travel, independent service mode bypasses coordinated peak planning, and inspect mode is for maintenance checks rather than serving peak passenger flow.

## 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://buildingautomationlvl2.examzify.com>**

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

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