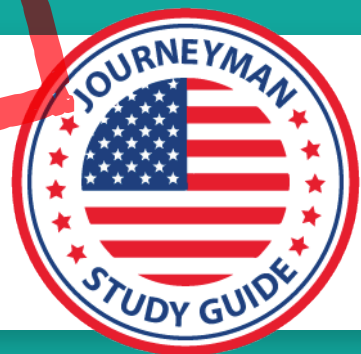


# JOURNEYMAN STUDY GUIDE ELEVATOR CONSTRUCTOR (SEPARATE FROM TECHNICIAN)

## YEAR 2

**SAMPLE**  
250 EXAM PREP QUESTIONS,  
WITH EXPLAINED ANSWERS



APPRENTICES | INSTRUCTORS | INSTITUTES

[JourneymanStudyGuide.com](http://JourneymanStudyGuide.com)

UNITY CREST SOLUTIONS INC.

## Who Is Journeyman Study Guide For?

Welcome to *Journeyman Study Guide*—your key to unlocking success in your trade, earning the recognition you deserve, and building a solid career in America. Whether you're an apprentice just starting out, a seasoned professional, or someone new to the country and adjusting to U.S. trade standards, this guide is designed to complement your learning and support you along the way. While it provides valuable insights and resources, it's not a substitute for official materials required for certification.

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1. *Apprentices*: Looking to kickstart your career? Our study guides and practice tests will help you build the foundational skills you need to succeed.
2. *Tradespeople*: New to the U.S. or advancing in your career? We offer detailed questions, answers, and explanations to help you understand industry standards and excel in your work.
3. *Instructors*: Need reliable teaching tools? Our question banks and online tests are great for guiding your students through trade concepts and preparing them for certification.
4. *Educational Institutions*: Looking for tailored materials? Our study guides, quizzes, and exams are designed to fit into your existing curriculum, offering valuable resources for students.
5. *Unions*: Searching for effective ways to train your members? Our easy-to-follow format ensures that each member gains the knowledge they need to thrive in their trade.

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1. *Tailored Study Guides*: Access the core knowledge you need, whether you're preparing for your exam, familiarizing yourself with U.S. trade standards, or simply refining your trade skills.
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We're committed to making trade education *accessible, flexible, and affordable* to anyone in America. You don't need to worry about the high cost of learning—we believe nothing should stop you from earning top wages in your trade.

This guide isn't just a quick fix—it's a tool designed to *highlight your strengths, pinpoint areas for improvement, and focus your efforts* where they matter most. Whether you choose our *online tests, questions and answers, or detailed explanations*, you'll get the right tools to prepare for whatever challenges lie ahead. *However, it's not a replacement for official training or certification resources.*

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— Jessica Taylor, Apprentice Ironworker

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— Carlos Ramirez, Electrician, originally from Mexico

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— John Davis, Union Welding Instructor

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1. *It's not easy:* Becoming a certified journeyman requires hard work, patience, and a real dedication to learning. This guide will help you navigate the complexity, but the journey itself requires you to commit to the process. At the end, you'll not only have earned your certification but also be in a stronger position for long-term success in your career.
2. *You will need to put in effort:* Our practice tests, questions, and explanations are incredibly useful, but they can only get you so far without your own effort. You need to engage with the material and be prepared to revisit concepts to fully understand them. This preparation will also help you manage test anxiety and give you the tools to stay focused and confident when exam day comes.
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# QUESTIONS



**Year 2: Intermediate Elevator Installation and System Integration**  
**Subject 3. Hydraulic Elevator Installation and Functionality**

**1. What does a hydraulic elevator use?**

- a) Gravity force
- b) Water pressure
- c) Air pressure
- d) Electric force

**Correct Answer: b) Water pressure**

**Explanation:** Hydraulic elevators operate using water pressure to lift the elevator car. The system consists of hydraulic cylinders filled with fluid, which are activated by a pump. As the pump delivers fluid into the cylinder, the piston moves upward, raising the elevator. This method allows for smooth and efficient vertical transportation.

**2. Which component lifts the elevator car?**

- a) Piston
- b) Cylinder
- c) Valve
- d) Pump

**Correct Answer: a) Piston**

**Explanation:** The piston in a hydraulic elevator is the key component responsible for lifting the car. When hydraulic fluid is pumped into the cylinder, it moves the piston upward. This upward movement directly raises the elevator car, allowing it to travel between floors. The effectiveness of this lifting mechanism is critical for the elevator's functionality.

**3. What powers the hydraulic system?**

- a) Solar energy
- b) Wind energy
- c) Gasoline
- d) Electricity

**Correct Answer: d) Electricity**

**Explanation:** The hydraulic system of an elevator is powered by electricity, which operates the pump that moves hydraulic fluid. This electric pump is responsible for creating the pressure needed to lift the elevator car. The use of electric power ensures a reliable and consistent operation of the hydraulic lifting mechanism.



#### 4. What is the role of the pump?

- a) To lift weight
- b) To control speed
- c) To supply fluid
- d) To open doors

**Correct Answer: c) To supply fluid**

**Explanation:** The pump in a hydraulic elevator is crucial as it supplies hydraulic fluid to the system under pressure. This pressurized fluid is directed into the cylinder, allowing the piston to move and lift the elevator car. The pump's efficiency directly affects the elevator's performance and response time.

#### 5. Which part stores hydraulic fluid?

- a) Reservoir
- b) Valve
- c) Cylinder
- d) Pump

**Correct Answer: a) Reservoir**

**Explanation:** The reservoir in a hydraulic elevator system is where hydraulic fluid is stored. It provides a supply of fluid that the pump draws from when needed. Maintaining an adequate fluid level in the reservoir is essential for the smooth operation of the elevator, as it ensures there is enough fluid for lifting.

#### 6. What is a common elevator feature?

- a) Sound system
- b) Safety brakes
- c) Air conditioning
- d) Remote control

**Correct Answer: b) Safety brakes**

**Explanation:** Safety brakes are a vital feature of hydraulic elevators, ensuring passenger safety during operation. In the event of a malfunction or power failure, these brakes engage to prevent the elevator from falling. This safety mechanism is essential for regulatory compliance and user confidence in the elevator system.



**7. How does the elevator descend?**

- a) Fluid removal
- b) Weight increase
- c) Pump reversal
- d) Gravity alone

**Correct Answer: a) Fluid removal**

**Explanation:** To descend, hydraulic elevators remove hydraulic fluid from the cylinder, allowing the piston to move downward. This process is typically controlled by a valve that regulates fluid flow back to the reservoir. Gravity aids this descent, but the controlled release of fluid is crucial for a smooth and safe lowering of the elevator.

**8. What does a control valve do?**

- a) Moves the elevator
- b) Stalls the elevator
- c) Regulates fluid flow
- d) Operates the pump

**Correct Answer: c) Regulates fluid flow**

**Explanation:** The control valve in a hydraulic elevator system regulates the flow of hydraulic fluid to and from the cylinder. By controlling this flow, the valve determines the speed and direction of the elevator's movement. Proper functioning of the control valve is essential for the overall performance and safety of the elevator system.

**9. What type of fluid is used?**

- a) Air
- b) Oil
- c) Water
- d) Steam

**Correct Answer: b) Oil**

**Explanation:** Hydraulic elevators typically use oil as the hydraulic fluid due to its incompressibility and ability to lubricate the system. Oil provides better performance and efficiency than water, as it minimizes friction and wear on components. Using the correct type of fluid is crucial for maintaining the longevity and effectiveness of the hydraulic system.



**10. What happens if the pump fails?**

- a) Elevator opens
- b) Elevator stops
- c) Elevator ascends
- d) Elevator moves faster

**Correct Answer: b) Elevator stops**

**Explanation:** If the pump fails in a hydraulic elevator system, the elevator will stop functioning. Without the pump supplying hydraulic fluid under pressure, the piston cannot move, preventing the elevator from ascending or descending. Regular maintenance of the pump is essential to avoid such failures and ensure reliable elevator operation.

**11. Why is lubrication important?**

- a) Enhances performance
- b) Reduces noise
- c) Prevents rust
- d) Saves energy

**Correct Answer: a) Enhances performance**

**Explanation:** Lubrication in hydraulic elevator systems is important as it reduces friction between moving parts, enhancing overall performance. Proper lubrication ensures smooth operation of the pump, piston, and valves, which helps to prevent wear and tear. This maintenance practice is vital for long-term reliability and efficiency of the elevator system.

**12. What regulates elevator speed?**

- a) Fluid type
- b) Control valve
- c) Pump power
- d) Piston size

**Correct Answer: b) Control valve**

**Explanation:** The control valve is responsible for regulating the speed of the elevator by controlling the flow of hydraulic fluid. By adjusting the amount of fluid entering or leaving the cylinder, the valve can increase or decrease the elevator's speed. This precise control is essential for safe and comfortable operation.



**13. What does the hydraulic cylinder contain?**

- a) Gas
- b) Air
- c) Fluid
- d) Sand

**Correct Answer: c) Fluid**

**Explanation:** The hydraulic cylinder contains hydraulic fluid, which is essential for the operation of the elevator. This fluid is pressurized by the pump, allowing the piston to move and lift the elevator car. The integrity of the hydraulic cylinder is crucial, as any leaks can lead to a decrease in performance and safety.

**14. What is the primary advantage of hydraulic elevators?**

- a) Lower cost
- b) Heavy load capacity
- c) High speed
- d) Quiet operation

**Correct Answer: b) Heavy load capacity**

**Explanation:** One of the primary advantages of hydraulic elevators is their ability to handle heavy loads. The hydraulic system can lift substantial weights, making these elevators ideal for low-rise buildings and freight applications. This capacity is a significant factor in their design and selection for certain types of elevator installations.

**15. What is the function of the piston?**

- a) Acts as a brake
- b) Lifts the car
- c) Moves fluid
- d) Controls speed

**Correct Answer: b) Lifts the car**

**Explanation:** The primary function of the piston in a hydraulic elevator is to lift the elevator car. When hydraulic fluid is pumped into the cylinder, it pushes the piston upward, causing the car to rise. This direct relationship between the piston movement and car elevation is fundamental to the hydraulic system's operation.



**16. What is the purpose of the hydraulic system?**

- a) Move passengers
- b) Create pressure
- c) Store energy
- d) Generate electricity

**Correct Answer: a) Move passengers**

**Explanation:** The primary purpose of the hydraulic system in an elevator is to move passengers between different floors. By using hydraulic fluid to create pressure, the system efficiently lifts and lowers the elevator car. This functionality is essential for transporting people safely and effectively in buildings.

**17. How is emergency operation achieved?**

- a) Gravity descent
- b) Fluid release
- c) Battery backup
- d) Manual pump

**Correct Answer: c) Battery backup**

**Explanation:** Emergency operation in hydraulic elevators is typically achieved through a battery backup system. This allows the elevator to function even during power outages, ensuring that passengers can exit safely. The backup system is a crucial safety feature, providing additional reliability in case of electrical failure.

**18. Where is the elevator control panel located?**

- a) Inside the car
- b) At the base
- c) On the roof
- d) In the motor room

**Correct Answer: a) Inside the car**

**Explanation:** The elevator control panel is typically located inside the elevator car, allowing passengers to select their desired floor and control the elevator's operation. This placement is convenient and accessible for users. Understanding how to operate the control panel is essential for safe and effective use of the elevator.



**19. What is the maximum travel distance?**

- a) 100 ft / 30.48 m
- b) 50 ft / 15.24 m
- c) 10 ft / 3.05 m
- d) 30 ft / 9.14 m

**Correct Answer: b) 50 ft / 15.24 m**

**Explanation:** The maximum travel distance for hydraulic elevators is typically around 50 ft / 15.24 m. Beyond this distance, other elevator systems, such as traction elevators, may be more suitable. Knowing the travel limitations is important for elevator constructors when designing and installing hydraulic systems in various buildings.

**20. What is a hydraulic lift used for?**

- a) Moving cars
- b) Elevating people
- c) Heavy machinery
- d) Storing goods

**Correct Answer: b) Elevating people**

**Explanation:** A hydraulic lift is primarily used for elevating people between different floors in a building. This application is common in residential, commercial, and industrial settings. The ability to transport individuals safely and efficiently is the main function of hydraulic lifts in modern structures.

**21. What component prevents overload?**

- a) Cylinder
- b) Pump
- c) Control panel
- d) Safety valve

**Correct Answer: d) Safety valve**

**Explanation:** The safety valve in a hydraulic elevator system prevents overload by limiting the amount of hydraulic fluid that can enter the cylinder. If the weight exceeds a certain limit, the valve will automatically restrict fluid flow, ensuring the elevator does not lift beyond its safe capacity. This is a critical safety feature.



**22. What indicates elevator position?**

- a) Sound signals
- b) Sensors
- c) Control panel
- d) Lights

**Correct Answer: b) Sensors**

**Explanation:** Sensors are used in hydraulic elevators to indicate the position of the elevator car. They provide feedback to the control system, ensuring accurate stopping at each floor. This technology enhances safety and reliability, allowing for precise control of the elevator's movement and confirming that it is at the correct level.

**23. What is the typical speed of hydraulic elevators?**

- a) 100 ft / 30.48 m/min / 30.48 m/min
- b) 200 ft / 60.96 m/min / 60.96 m/min
- c) 150 ft / 45.72 m/min / 45.72 m/min
- d) 50 ft / 15.24 m/min / 15.24 m/min

**Correct Answer: a) 100 ft / 30.48 m/min / 30.48 m/min**

**Explanation:** Hydraulic elevators typically operate at a speed of around 100 ft / 30.48 m/min / 30.48 m/min. This speed is suitable for low-rise buildings, providing efficient transportation without compromising safety. Understanding elevator speed is essential for elevator constructors to ensure compliance with building codes and user expectations.

**24. What maintenance is crucial?**

- a) Painting walls
- b) Cleaning floors
- c) Pump inspection
- d) Replacing lights

**Correct Answer: c) Pump inspection**

**Explanation:** Regular pump inspection is crucial for the maintenance of hydraulic elevators. The pump is the heart of the hydraulic system, and ensuring its proper functioning prevents unexpected failures. Routine checks can identify wear and tear, allowing for timely repairs and ensuring the elevator operates safely and efficiently.



**25. What does a two-speed pump do?**

- a) Moves faster
- b) Adjusts flow rate
- c) Increases pressure
- d) Lowers fluid consumption

**Correct Answer: b) Adjusts flow rate**

**Explanation:** A two-speed pump in a hydraulic elevator can adjust the flow rate of hydraulic fluid, allowing for different speeds during ascent and descent. This feature enhances operational efficiency and passenger comfort by providing a smoother ride. Understanding the functionality of different pump types is important for elevator constructors during installation.



Subject - 1

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## About the Creators:

### Bobby Bedi:

Bobby Bedi, co-creator of the Journeyman Study Guide, calls the Pacific Northwest home, where he has built an extensive career spanning more than two decades. His diverse background, which includes architecture, digital innovation, and industrial marketing, has given him a unique ability to bridge traditional industries with cutting-edge digital solutions. Bobby has worked across a spectrum of industries, from agile startups to publicly traded companies and educational platforms, bringing a depth of experience that has been crucial to the platform's success.

Bobby's precision and problem-solving skills, refined through his years in architecture, have seamlessly transitioned into his work in digital marketing and technology. Since 2006, Bobby has been at the forefront of digital innovation, applying his expertise to transform trade education. He has been instrumental in developing cutting-edge, user-friendly platforms that make learning accessible across the globe, combining technology with education to create impactful online experiences.

As co-creator of the platform, Bobby also plays a key role in the industrial sector, where he helps companies scale by leveraging his expertise in digital marketing and business strategy. His dedication to making education affordable and impactful has driven the growth of the Journeyman Study Guide, ensuring that individuals at every stage of their careers have access to quality learning tools.

### Kris McFarlane:

Kris McFarlane, co-creator of the Journeyman Study Guide, has over two decades of experience in business development, education, and the trades. Based in the Pacific Northwest, Kris has worked with a range of organizations—from agile startups to publicly traded companies—driving business growth and developing successful strategies across industries. His expertise in scaling businesses and creating educational platforms has been key to the guide's reach and effectiveness.

Kris's deep roots in the trades and industrial sector, paired with his extensive experience in business development, give him a unique ability to understand both the practical and strategic needs of companies and individuals. His leadership and ability to mentor others have helped shape the platform, making it a go-to resource for tradespeople seeking career advancement and certification.

Having struggled with traditional education early in life, Kris understands the importance of making learning accessible for everyone. His passion for empowering others, especially those who feel underserved by conventional education systems, is reflected in every aspect of the Journeyman Study Guide. Kris's work is driven by a commitment to helping aspiring tradespeople succeed in their careers through affordable, practical, and accessible learning resources.

## Work with the Creators

As co-creators of the Journeyman Study Guide, Bobby Bedi and Kris McFarlane draw from extensive experience working with agile startups, publicly traded companies, and education platforms. Their combined expertise has shaped a platform that empowers businesses and individuals alike. To learn more or explore opportunities with the *Unity Crest Solutions team*, visit [UnityCrestSolutions.com](https://UnityCrestSolutions.com), where they continue to help organizations and people succeed.



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- **Practice Questions** to test your knowledge and sharpen your skills.

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## A Companion, Not a Substitute:

Remember, the Journeyman Study Guide is a tool to complement your study regimen. For optimal results, use this guide in conjunction with the latest official materials issued by government authorities.

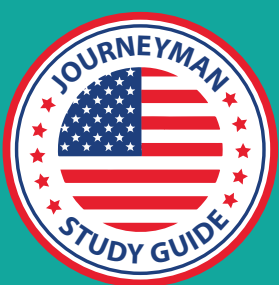
## Are You Ready to Take the Next Step?

With the Journeyman Study Guide in hand, you are well-equipped to tackle the challenges of the exam and step confidently into your career as a certified tradesperson.

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