JOURNEYMAN STUDY GUIDE CONGRETE FINISHER

250 EXAM PREP QUESTIONS, WITH EXPLAINED ANSWERS



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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.

How We Help You Succeed

- 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.

What Journeyman Study Guide Offers:

- 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.
- 2. *Real-World Practice Tests:* Simulate actual exam conditions with online tests that help you measure your progress and improve your job-ready skills.
- 3. *Skill-Building Question Banks*: Strengthen your understanding with questions that not only prepare you for the exam but also help you master key concepts in your day-to-day work.
- 4. *In-Depth Explanations:* Get detailed explanations for each answer, helping you understand not just how, but why, the answers are correct—improving both test results and practical knowledge.
- 5. Additional Learning Resources: Dive into supplementary guides on topics like math, safety protocols, and management strategies that are valuable for both certification and long-term career growth.



Tools for Your Success

Each of these resources is crafted to ensure you're fully prepared for your Journeyman exam and ready to excel in your trade. From gaining core knowledge with our tailored study guides to testing your skills with real-world practice exams, we provide everything you need to boost your understanding. Our in-depth explanations clarify key concepts, while additional learning resources like math, safety, and management guides give you the tools to succeed in your career and continue growing as a tradesperson.

How to Use This Guide

The *Journeyman Study Guide* is a *helpful tool* designed to complement your preparation for certification exams. While it includes practice questions, explanations, and supplementary resources, it's important to use this guide *alongside your official study materials* and hands-on training. The more you combine this guide with your practical experience and state-approved coursework, the better prepared you'll be for both your exam and your career in the trade.

Ready to Take the First Step Toward Success?

Don't let anything hold you back. Visit JourneymanStudyGuide.com to unlock the resources that will elevate your skills, boost your confidence, and secure the income and recognition you deserve. Whether you're an apprentice, a tradesperson, or an instructor, our online tests, questions and answers, and detailed explanations are designed to help you at every stage of your career. Remember, this guide is a tool to help you succeed—it works best when paired with hands-on learning and official materials.

Thousands of tradespeople have already transformed their careers, increased their income, and improved their lives with the *Journeyman Study Guide*.

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Why Journeyman Study Guide?

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.

Success Stories from Real People

We've helped thousands of tradespeople—apprentices, seasoned professionals, and those new to America—gain the confidence and skills needed to pass their exams and advance their careers.

Here's what some of our users have to say:

"The *online tests* in the Journeyman Study Guide were a game-changer. They gave me a clear sense of what to expect on the exam, and the *questions and answers* helped me focus on exactly what I needed to improve, especially in areas I had struggled with before."

Jessica Taylor, Apprentice Ironworker

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Carlos Ramirez, Electrician, originally from Mexico

"As a union instructor, I rely on the *Journeyman Study Guide's question and answer sections* to reinforce my students' learning. The *online tests* are a great way to track their progress and make sure they're ready for the real exam."

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.
- 3. It's hands-on: While this guide provides the foundational knowledge and key concepts, your true growth comes from hands-on experience in the trade. This guide is designed to complement that experience and help you feel more prepared on the job. By understanding the 'why' behind the work, you'll find yourself better equipped for both the exam and your everyday trade responsibilities.

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Before you dive into the resources, it's important to know that *Journeyman Study Guide* is a *helpful tool* designed to prepare you for your exam by offering practice questions, answers, and explanations similar to what you may encounter. However, *state requirements vary*, and this guide should be used *alongside official state or industry resources* to ensure you're fully prepared.



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Year 1: Fundamentals of Concrete Finishing

Subject 3: Basic Formwork and Preparation

1. What is the primary purpose of formwork?

- a) Mix concrete ingredients
- b) Support concrete until set
- c) Measure concrete volume
- d) Decorate the concrete surface

Correct Answer: b) Support concrete until set

Explanation: The primary purpose of formwork is to support concrete until it has set and gained sufficient strength. Without formwork, the concrete would not maintain its desired shape during the curing process. Formwork essentially acts as a mold, ensuring that the concrete maintains its dimensions and is able to achieve the required structural integrity.

2. Which material is commonly used for formwork?

- a) Steel
- b) Plastic
- c) Wood
- d) Glass

Correct Answer: c) Wood

Explanation: Wood is one of the most commonly used materials for formwork due to its availability, ease of use, and cost-effectiveness. It can be easily shaped and cut to meet the specific requirements of various concrete structures. Other materials like steel and plastic are also used, but wood remains popular for many applications, especially in residential construction.

3. What is the term for the walls of formwork?

- a) Slabs
- b) Panels
- c) Beams
- d) Columns

Correct Answer: b) Panels

Explanation: The walls of formwork are referred to as panels. These panels are assembled to create a mold for the concrete to be poured into. Properly designed and constructed panels are crucial for ensuring that the concrete retains its shape and does not leak. Panels can be made from various materials, including wood, metal, or plastic.



4. How should formwork be secured?

- a) Using nails or screws
- b) By stacking
- c) Tied with rope
- d) With glue

Correct Answer: a) Using nails or screws

Explanation: Formwork should be securely fastened using nails or screws to ensure stability during the concrete pouring process. Proper fastening prevents any movement of the formwork that could lead to irregularities in the concrete shape. Additionally, secure formwork minimizes the risk of leaks, which can compromise the quality of the finished product.

5. What is the function of release agents?

- a) Prevent concrete from sticking
- b) Add strength to concrete
- c) Help concrete cure
- d) Change concrete color

Correct Answer: a) Prevent concrete from sticking

Explanation: Release agents are used to prevent the concrete from sticking to the formwork. This allows for easier removal of the formwork after the concrete has cured. Release agents can be chemical sprays or oils applied to the inner surfaces of the formwork, ensuring that the surface finish of the concrete is not damaged during the removal process.

6. What is the first step in formwork preparation?

- a) Mixing ingredients
- b) Pouring concrete
- c) Measuring area
- d) Securing panels

Correct Answer: c) Measuring area

Explanation: The first step in formwork preparation is to accurately measure the area where the concrete will be poured. This ensures that the formwork is built to the correct dimensions. Accurate measurements help in creating a mold that meets the design specifications and minimizes waste. It is essential to verify all dimensions before proceeding with formwork assembly.



7. What is a common type of formwork?

- a) Solid form
- b) Slipform
- c) Flat form
- d) Hollow form

Correct Answer: b) Slipform

Explanation: Slipform is a common type of formwork that is continuously moved upward as concrete is poured. This method is often used for constructing tall structures like silos and towers. Slipform allows for a smooth finish and efficient placement of concrete, as the formwork remains in motion, reducing the time between placements and enhancing productivity on site.

8. When is formwork typically removed?

- a) After one week
- b) When concrete is cured
- c) Immediately after pouring
- d) After 24 hours

Correct Answer: b) When concrete is cured

Explanation: Formwork is typically removed once the concrete has gained sufficient strength and is cured, usually after a few days to a week, depending on the type of concrete used and environmental conditions. Removing formwork too early can compromise the structure, leading to surface defects or even structural failure. Proper timing ensures that the concrete retains its intended shape and strength.

9. Which tool is essential for leveling concrete?

- a) Paintbrush
- b) Hammer
- c) Drill
- d) Trowel

Correct Answer: d) Trowel

Explanation: A trowel is an essential tool for leveling concrete during finishing. It is used to smooth out the surface and create a flat finish once the concrete has been poured. The trowel allows concrete finishers to manipulate the surface texture and ensure that it meets design specifications. Proper trowel technique is vital for achieving a professional-looking finish.



10. What is the purpose of expansion joints?

- a) Prevent cracks
- b) Allow for movement
- c) Improve strength
- d) Enhance appearance

Correct Answer: b) Allow for movement

Explanation: Expansion joints are designed to allow for movement within the concrete structure. As concrete expands and contracts due to temperature changes, these joints help prevent cracking by providing a space for movement. Proper placement of expansion joints is crucial in large concrete slabs and structures to maintain structural integrity and extend the lifespan of the concrete.

11. What is the key factor in curing concrete?

- a) Weight
- b) Color
- c) Size
- d) Temperature

Correct Answer: d) Temperature

Explanation: Temperature is a key factor in curing concrete effectively. Proper temperature control is essential for the hydration process, which affects the strength and durability of the concrete. If the temperature is too low, curing may be delayed, while high temperatures can lead to rapid drying, causing cracks. Maintaining an appropriate curing temperature helps ensure optimal results in the finished concrete product.

12. What is a common thickness for formwork panels?

- a) ¾ inches
- b) ½ inches
- c) 2 inches / 5.08 cm
- d) 1 inches / 2.54 cm

Correct Answer: a) 3/4 inches

Explanation: A common thickness for formwork panels is ¾ inches, especially when using plywood or engineered wood products. This thickness provides adequate strength and durability to support the weight of the wet concrete without deforming or collapsing. Using panels of the correct thickness is crucial for maintaining the integrity of the formwork and ensuring that it can withstand the pressures involved during the pouring process.



13. What is the term for the process of pouring concrete?

- a) Leveling
- b) Curing
- c) Mixing
- d) Placement

Correct Answer: d) Placement

Explanation: The term for the process of pouring concrete is called placement. Proper placement techniques involve ensuring that the concrete is poured evenly and without segregation of materials. This step is critical for achieving a uniform finish and maintaining the structural integrity of the poured concrete. Placement must be executed carefully to avoid air pockets and ensure a solid bond with the formwork.

14. What should be checked before pouring concrete?

- a) Number of workers
- b) Color of concrete
- c) Weather conditions
- d) Length of formwork

Correct Answer: c) Weather conditions

Explanation: Before pouring concrete, it is essential to check the weather conditions. Rain, extreme heat, or cold can significantly affect the curing process and the overall quality of the concrete. Ideal conditions are necessary for optimal hydration and setting of the concrete. Monitoring weather helps prevent potential issues and ensures a successful concrete finish.

15. What is the main benefit of using reusable formwork?

- a) Lighter weight
- b) Easier to clean
- c) Cost-effective
- d) More decorative

Correct Answer: c) Cost-effective

Explanation: The main benefit of using reusable formwork is its cost-effectiveness. Reusable formwork can be employed for multiple projects, reducing the need for new materials with each job. This not only lowers material costs but also minimizes waste, making it an environmentally friendly option. Additionally, the durability of reusable formwork can lead to more consistent quality in finished projects.



16. What is the purpose of form ties?

- a) Hold formwork together
- b) Level concrete
- c) Mix materials
- d) Decorate surface

Correct Answer: a) Hold formwork together

Explanation: Form ties are used to hold formwork panels together during the pouring of concrete. They are critical for maintaining the shape and stability of the formwork under pressure from the wet concrete. Proper use of form ties ensures that the panels remain aligned and do not bow or collapse, which could lead to defects in the finished concrete structure.

17. Which type of concrete requires special formwork?

- a) Lightweight
- b) Precast
- c) Reinforced
- d) Colored

Correct Answer: b) Precast

Explanation: Precast concrete requires special formwork designed for the specific shapes and dimensions needed for the precast elements. This type of formwork is often tailored to create unique molds for structural components that will be manufactured off-site and then transported for installation. The precision in precast formwork is essential for ensuring the quality and fit of the final product.

18. What is the term for the top surface of concrete?

- a) Slab
- b) Footing
- c) Beam
- d) Column

Correct Answer: a) Slab

Explanation: The term for the top surface of concrete is a slab. Slabs are horizontal surfaces used in floors, ceilings, and roofs, providing a foundational base for structures. Proper formwork is crucial for creating level and stable slabs, which directly impacts the overall performance and aesthetics of the finished concrete surface.



19. Which factor influences formwork design?

- a) Color choice
- b) Concrete type
- c) Site location
- d) Worker height

Correct Answer: b) Concrete type

Explanation: The type of concrete being used significantly influences formwork design. Different concrete types have varying properties, such as setting time and weight, which must be considered when designing formwork. For example, high-strength concrete may require more robust formwork to withstand greater pressures during pouring. Understanding the concrete type helps ensure that the formwork can adequately support the material until it is fully cured.

20. What is the primary cause of formwork failure?

- a) Poor design
- b) Excessive weight
- c) Inexperienced workers
- d) Weather conditions

Correct Answer: a) Poor design

Explanation: The primary cause of formwork failure is poor design. If the formwork is not designed to adequately support the weight and pressure of the concrete, it may collapse or deform. Proper engineering and planning are essential to prevent such failures. Factors such as load distribution, material strengths, and environmental conditions must all be considered in formwork design to ensure safety and effectiveness.

21. What is the best time to clean formwork?

- a) Before pouring
- b) After pouring
- c) During curing
- d) Before reusing

Correct Answer: d) Before reusing

Explanation: The best time to clean formwork is before reusing it for another project. Cleaning ensures that any residual concrete or release agents do not affect the quality of the next pour. Proper cleaning also helps maintain the integrity of the formwork materials and extends their lifespan. Regular maintenance and cleaning practices promote efficient operations on the job site.



22. Which tool is used to check formwork alignment?

- a) Trowel
- b) Paintbrush
- c) Hammer
- d) Level

Correct Answer: d) Level

Explanation: A level is the tool used to check the alignment of formwork. It ensures that the panels are positioned correctly and that the surface will be flat once the concrete is poured. Proper alignment is crucial for achieving a quality finish and for the structural integrity of the concrete. Using a level helps prevent issues that could arise from uneven surfaces.

23. What is the function of a screed?

- a) Smooth concrete surface
- b) Mix concrete
- c) Pour concrete
- d) Remove formwork

Correct Answer: a) Smooth concrete surface

Explanation: The function of a screed is to smooth the concrete surface after it has been poured. It is a long, straight tool that helps to level the concrete and remove excess material, resulting in a flat and even finish. Proper screeding is essential for achieving the desired surface quality and ensuring that the concrete meets the specifications for the project.

24. How does moisture affect formwork?

- a) Increases strength
- b) Improves adhesion
- c) Reduces weight
- d) Causes warping

Correct Answer: d) Causes warping

Explanation: Moisture can cause formwork, particularly wood, to warp. This warping can lead to misalignment and irregularities in the concrete surface. Properly storing formwork and ensuring it remains dry before use is crucial to prevent such issues. Managing moisture levels helps maintain the integrity of the formwork and ensures high-quality concrete finishes.



25. What is the purpose of a concrete vibrator?

- a) Level surface
- b) Mix ingredients
- c) Remove air bubbles
- d) Add color

Correct Answer: c) Remove air bubbles

Explanation: The purpose of a concrete vibrator is to remove air bubbles from the poured concrete. Air pockets can weaken the concrete and lead to structural problems. By using a vibrator, the concrete can be consolidated, ensuring a dense and strong final product. Proper vibration techniques are critical for achieving the desired strength and durability in concrete structures.





- 1). A B C D
- 6). A B C D
- 11). A B C D

- 2). (A) (B) (C) (D)
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- 20). (A) (B) (C) (D)
- 25). A B C D

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*, where they continue to help organizations and people succeed.



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What's Inside:

- **Detailed Overviews** of potential exam formats and key concepts.
- **Practical Tips** for effective study habits and exam strategies.
- **Practice Questions** to test your knowledge and sharpen your skills.

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Our guide is specifically designed for a variety of trades across all Canadian provinces, ensuring you receive the most relevant and comprehensive information possible.

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