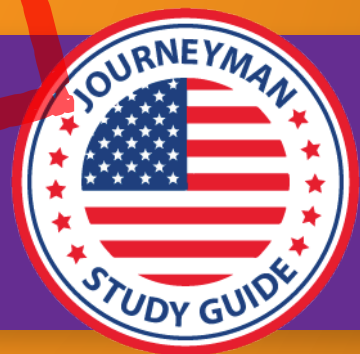


# JOURNEYMAN STUDY GUIDE CONCRETE FINISHER YEAR 3

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



APPRENTICES | INSTRUCTORS | INSTITUTES

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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.
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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.
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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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— Jessica Taylor, Apprentice Ironworker

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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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# SNOW STUDS QUEST



## **Year 3: Structural and Specialized Concrete Applications**

### **Subject 3: Specialty Concrete Mixes and Admixtures**

#### **1. What is high-strength concrete?**

- a) Concrete with high durability
- b) Concrete with low water-cement ratio
- c) Concrete with high compressive strength
- d) Concrete with less air content

**Correct Answer: c) Concrete with high compressive strength**

**Explanation:** High-strength concrete is defined by its high compressive strength, typically above 6000 psi / 413.69 Bar. The use of a low water-cement ratio is critical in achieving this strength, as it reduces porosity and enhances durability. This type of concrete is ideal for structures that require enhanced load-bearing capacity.

#### **2. What primarily affects self-consolidating concrete?**

- a) Increased aggregate size
- b) Low temperature
- c) High cement content
- d) Admixtures for flowability

**Correct Answer: d) Admixtures for flowability**

**Explanation:** Self-consolidating concrete (SCC) relies heavily on admixtures, particularly viscosity-modifying agents and superplasticizers, to enhance flowability and reduce the need for mechanical vibration. This allows the concrete to fill molds and around reinforcements uniformly, making it ideal for complex shapes and congested areas.

#### **3. Which admixture acts as a retarder?**

- a) Silica fume
- b) Fly ash
- c) Calcium chloride
- d) Lignosulfonates

**Correct Answer: d) Lignosulfonates**

**Explanation:** Lignosulfonates are commonly used as retarders to delay the setting time of concrete. This is particularly beneficial in hot weather conditions where rapid setting can occur. By using retarders, concrete finishers can work within a more manageable timeframe, ensuring proper placement and finishing of the concrete.





**4. When is an accelerator used in concrete?**

- a) For low-strength mixes
- b) For high-temperature curing
- c) When reducing workability
- d) In cold weather conditions

**Correct Answer: d) In cold weather conditions**

**Explanation:** Accelerators are used in concrete to speed up the setting and hardening process, particularly in cold weather conditions. This helps to ensure that the concrete gains strength quickly, reducing the risk of freeze damage and allowing for earlier finishing and use of the structure.

**5. What is the main benefit of high-strength mixes?**

- a) Reduced labor needs
- b) Enhanced structural integrity
- c) Lower material costs
- d) Faster setting times

**Correct Answer: b) Enhanced structural integrity**

**Explanation:** High-strength concrete mixes provide enhanced structural integrity, allowing for the construction of thinner, lighter structures that can support heavier loads. This is crucial in applications such as high-rise buildings and bridges, where strength-to-weight ratio is a vital consideration in design and safety.

**6. What is the main characteristic of self-consolidating concrete?**

- a) Requires high compaction
- b) High fluidity
- c) Requires vibration
- d) Low slump

**Correct Answer: b) High fluidity**

**Explanation:** Self-consolidating concrete is characterized by its high fluidity, which allows it to flow into place without the need for mechanical vibration. This property enables it to achieve uniform distribution around reinforcement and fill complex forms effortlessly, making it ideal for intricate designs and precast applications.



**7. Which type of admixture reduces setting time?**

- a) Accelerator
- b) Fly ash
- c) Superplasticizer
- d) Water reducer

**Correct Answer: a) Accelerator**

**Explanation:** Accelerators are admixtures specifically designed to reduce the setting time of concrete. By promoting faster hydration of the cement particles, these additives are particularly useful in construction environments where time constraints are critical, allowing concrete finishers to proceed with their work more quickly.

**8. How does silica fume enhance concrete?**

- a) Reduces cost
- b) Enhances color
- c) Improves durability and strength
- d) Increases workability

**Correct Answer: c) Improves durability and strength**

**Explanation:** Silica fume is a pozzolanic material that, when added to concrete, improves both durability and compressive strength. It reacts with calcium hydroxide to form additional cementitious compounds, thus filling voids in the concrete matrix and enhancing overall performance, particularly in aggressive environments.

**9. What role do retarders play in concrete?**

- a) Increase air content
- b) Slow down hydration
- c) Decrease viscosity
- d) Increase water demand

**Correct Answer: b) Slow down hydration**

**Explanation:** Retarders are used to slow down the hydration process of cement in concrete. This is particularly useful in hot weather or when large volumes of concrete need to be placed over an extended period. By delaying setting, finishers can work more effectively without compromising the quality of the finish.



**10. What is the significance of the water-cement ratio?**

- a) Influences setting time
- b) Affects strength and durability
- c) Determines the color of concrete
- d) Changes aggregate size

**Correct Answer: b) Affects strength and durability**

**Explanation:** The water-cement ratio is crucial in determining the strength and durability of concrete. A lower ratio typically results in higher strength and lower porosity, while a higher ratio can lead to weaker concrete with increased susceptibility to damage from environmental factors. Proper management of this ratio is essential for quality concrete.

**11. Which admixture is used for flow enhancement?**

- a) Superplasticizer
- b) Silica fume
- c) Air-entraining agent
- d) Retarder

**Correct Answer: a) Superplasticizer**

**Explanation:** Superplasticizers are high-range water reducers that enhance the flowability of concrete without increasing water content. This allows for better workability and placement, especially in self-consolidating concrete, where maintaining fluidity is essential for achieving a smooth finish and filling intricate forms.

**12. What is the primary use of fly ash in concrete?**

- a) Enhancing workability
- b) Improving long-term strength
- c) Reducing weight
- d) Decreasing setting time

**Correct Answer: b) Improving long-term strength**

**Explanation:** Fly ash, a byproduct of coal combustion, is commonly used in concrete to improve long-term strength and durability. It acts as a pozzolanic material, reacting with calcium hydroxide to form additional cementitious compounds, thus enhancing the overall performance of the concrete over time.



**13. What property does air-entraining agent provide?**

- a) Creates air voids
- b) Increases density
- c) Enhances color
- d) Reduces workability

**Correct Answer: a) Creates air voids**

**Explanation:** Air-entraining agents are used in concrete to create microscopic air voids within the mix. These voids improve the freeze-thaw resistance of concrete, allowing it to expand and contract without cracking during temperature fluctuations. This property is essential for concrete exposed to harsh weather conditions.

**14. What is the typical slump range for self-consolidating concrete?**

- a) 0-2 inches / 5.08 cm
- b) 6-8 inches / 20.32 cm
- c) 12-16 inches / 40.64 cm
- d) 8-12 inches / 30.48 cm

**Correct Answer: d) 8-12 inches / 30.48 cm**

**Explanation:** Self-consolidating concrete typically has a slump range of 8 to 12 inches / 30.48 cm, indicating its high fluidity and ability to flow into place without mechanical vibration. This characteristic allows it to fill complex forms and achieve a smooth finish, making it ideal for challenging applications in construction.

**15. Which mix design is best for high-rise buildings?**

- a) Self-consolidating mix
- b) Low-strength mix
- c) Lightweight mix
- d) High-strength mix

**Correct Answer: d) High-strength mix**

**Explanation:** High-strength mixes are the preferred choice for high-rise buildings due to their superior load-bearing capabilities and reduced material usage. These mixes allow for thinner structural elements, resulting in more efficient use of space and resources, while ensuring the building's stability and safety under load.



**16. What does the term "workability" refer to?**

- a) Concrete color
- b) Ease of placement
- c) Ease of mixing
- d) Concrete density

**Correct Answer: b) Ease of placement**

**Explanation:** Workability refers to the ease with which concrete can be mixed, placed, and finished. It is influenced by factors such as the water-cement ratio, aggregate size, and the use of admixtures. Proper workability is essential for achieving a good finish and ensuring uniformity throughout the concrete structure.

**17. How can concrete finishers prevent cold joints?**

- a) Maintain consistent placement
- b) Increase air content
- c) Apply accelerators
- d) Use retarders

**Correct Answer: a) Maintain consistent placement**

**Explanation:** To prevent cold joints, concrete finishers must maintain consistent placement without allowing the concrete to set too much before adding more. This ensures a continuous bond between successive layers, avoiding weak points that can lead to structural issues. Proper timing and coordination are essential in this process.

**18. What is the effect of high temperatures on concrete?**

- a) Reduces strength
- b) Increases workability
- c) Accelerates setting time
- d) Enhances durability

**Correct Answer: c) Accelerates setting time**

**Explanation:** High temperatures can significantly accelerate the setting time of concrete, making it more challenging to work with. This rapid setting can lead to issues such as cracking and reduced strength if not managed properly, necessitating the use of retarders or careful planning during placement.



**19. Which mix is most suitable for precast elements?**

- a) High-strength mix
- b) Self-consolidating mix
- c) Fiber-reinforced mix
- d) Normal-strength mix

**Correct Answer: b) Self-consolidating mix**

**Explanation:** Self-consolidating concrete is most suitable for precast elements due to its ability to flow and fill molds without the need for vibration. This property ensures a uniform finish and reduces the risk of air pockets or voids, making it ideal for producing high-quality precast components efficiently.

**20. What is the purpose of using fibers in concrete?**

- a) Change density
- b) Reduce workability
- c) Increase color
- d) Improve tensile strength

**Correct Answer: d) Improve tensile strength**

**Explanation:** Fibers are added to concrete to improve tensile strength and fracture resistance. They help to control cracking and enhance the durability of concrete structures by distributing stresses more evenly throughout the mix. This is particularly important in applications where flexibility and toughness are required.

**21. What is the benefit of using high-performance concrete?**

- a) Low workability
- b) Shorter setting time
- c) Enhanced durability and strength
- d) Increased cost

**Correct Answer: c) Enhanced durability and strength**

**Explanation:** High-performance concrete offers enhanced durability and strength compared to conventional mixes, making it suitable for demanding applications such as bridges, parking structures, and industrial floors. Its formulation often includes supplementary cementitious materials and high-quality aggregates that improve resistance to environmental factors.





**22. What is a common use for retarding admixtures?**

- a) Warm weather curing
- b) Cold weather applications
- c) Large volume pours
- d) Complex molds

**Correct Answer: a) Warm weather curing**

**Explanation:** Retarding admixtures are commonly used in warm weather applications to slow down the setting time of concrete. This allows concrete finishers adequate time for placement and finishing without risking premature setting, which can lead to surface defects and reduced durability in the final product.

**23. How does aggregate size affect concrete?**

- a) Improves air content
- b) Influences strength and workability
- c) Affects curing time
- d) Changes color

**Correct Answer: b) Influences strength and workability**

**Explanation:** The size of aggregates significantly affects the strength and workability of concrete. Larger aggregates can improve the compressive strength but may reduce workability. Conversely, smaller aggregates enhance workability but may require careful balancing to maintain the desired strength and durability for the application.

**24. What is a primary feature of lightweight concrete?**

- a) Higher strength
- b) Enhanced durability
- c) Reduced density
- d) Increased workability

**Correct Answer: c) Reduced density**

**Explanation:** The primary feature of lightweight concrete is its reduced density, achieved by using lightweight aggregates. This makes it ideal for applications where weight reduction is crucial, such as in precast panels and building blocks. Lightweight concrete also offers improved thermal insulation properties, making it energy-efficient.



**25. Why is curing important for concrete?**

- a) Reduces workability
- b) Increases temperature
- c) Changes color
- d) Promotes hydration

**Correct Answer: d) Promotes hydration**

**Explanation:** Curing is essential for concrete as it promotes hydration, the chemical process that allows concrete to gain strength. Proper curing helps maintain adequate moisture and temperature conditions, ensuring the concrete reaches its intended strength and durability. Neglecting curing can lead to surface cracking and reduced performance.



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

## Testimonials:

"As an apprentice, the Journeyman Study Guide made complex topics manageable, boosting my confidence, income and career." - Emily Tran, Apprentice Carpenter

"Adapting to Canadian standards was really hard, but the guide bridged the gap between my previous experiences and Canadian requirements." - Ahmed Al-Sayed, Plumber, originally from Egypt

"As an instructor, I find the Journeyman Study Guide aligns well with the curriculum and significantly aids my students." - Derek Smith, Welding Instructor

## 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.

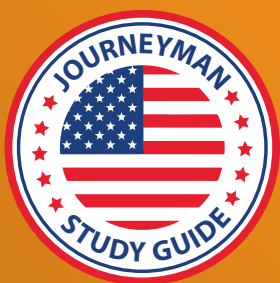
## Are You Ready to Take the Next Step?

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.

Join thousands of successful tradespeople who have advanced their careers with our guide.

Your journey to becoming Journeyman certified starts here!

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