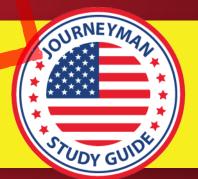
# JOURNEYMAN STUDY GUIDE HORTICULTURIST CANNABIS

YEAR 4

250 EXAM PREP QUESTIONS, WITH EXPLAINED ANSWERS



APPRENTICES I INSTRUCTORS I INSTITUTES

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.
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- 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.



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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.

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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.

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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.

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Jessica Taylor, Apprentice Ironworker

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John Davis, Union Welding Instructor

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This isn't just about reading and memorizing; it's about *preparing* you for real-world challenges. At Journeyman Study Guide, we've helped thousands of people pass their exams and advance their careers. But the truth is—success takes more than book smarts. Here's what you need to know:

- 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 4: Leadership, Business, and Comprehensive Skills

# Subject 3. Sustainability and Cost Efficiency

- 1. What is an energy-efficient lighting method?
- a) LED lighting
- b) Halogen lights
- c) Fluorescent tubes
- d) Incandescent bulbs

Correct Answer: a) LED lighting

**Explanation:** LED lighting is widely recognized for its energy efficiency, especially in horticulture. These lights consume significantly less energy compared to incandescent or fluorescent options while providing the necessary light spectrum for plant growth. Their longer lifespan also reduces waste and replacement costs, aligning with both sustainability and cost-efficiency goals.

- 2. Which packaging is most sustainable?
- a) Plastic wrap
- b) Non-recyclable bags
- c) Recyclable materials
- d) Styrofoam containers

Correct Answer: c) Recyclable materials

**Explanation:** Using recyclable materials for packaging can significantly reduce environmental impact. Unlike plastic wrap or Styrofoam, which contribute to landfill waste, recyclable options can be processed and reused. This practice not only lowers costs associated with waste disposal but also supports sustainability initiatives, appealing to environmentally conscious consumers.

# 3. What is low-impact farming?

- a) Conventional farming methods
- b) Organic farming practices
- c) Monoculture planting
- d) Industrial agriculture

**Correct Answer: b) Organic farming practices** 

**Explanation:** Low-impact farming refers to agricultural methods that minimize environmental damage. Organic farming practices avoid synthetic chemicals and promote biodiversity, which can lead to healthier ecosystems. By implementing these methods, cannabis horticulturists can enhance soil health, reduce pollution, and often save on costs related to chemical inputs and soil degradation.



# 4. Which light spectrum benefits cannabis growth?

- a) Blue spectrum
- b) Green spectrum
- c) Red spectrum
- d) Yellow spectrum

Correct Answer: a) Blue spectrum

**Explanation:** The blue spectrum of light is crucial for cannabis growth, particularly during the vegetative stage. It supports photosynthesis and encourages strong, healthy plant development. Energy-efficient lighting solutions that provide optimal blue light can significantly enhance growth while reducing electricity costs, making them a sustainable choice for cannabis horticulturists.

# 5. What is a benefit of composting?

- a) Increases chemical use
- b) Limits soil nutrition
- c) Promotes synthetic fertilizers
- d) Reduces waste

Correct Answer: d) Reduces waste

**Explanation:** Composting is the process of recycling organic matter, such as plant waste, into a valuable soil amendment. By reducing waste that would otherwise end up in landfills, composting contributes to sustainability. It enriches the soil, enhances plant growth, and decreases the need for synthetic fertilizers, resulting in cost savings and ecological benefits.

# 6. Which method reduces water usage?

- a) Drip irrigation
- b) Flood irrigation
- c) Traditional sprinklers
- d) Surface irrigation

**Correct Answer: a) Drip irrigation** 

**Explanation:** Drip irrigation is an efficient method that delivers water directly to the plant roots, minimizing evaporation and runoff. This technique significantly reduces overall water usage compared to traditional methods like flood irrigation or sprinklers. Implementing drip irrigation not only conserves water but also lowers costs associated with water sourcing and management.



# 7. What is a key benefit of integrated pest management?

- a) Enhances soil erosion
- b) Increases pesticide use
- c) Reduces chemical reliance
- d) Promotes monoculture

# Correct Answer: c) Reduces chemical reliance

**Explanation:** Integrated Pest Management (IPM) is a sustainable approach that utilizes a combination of biological, cultural, and mechanical practices to control pests. This strategy reduces the reliance on chemical pesticides, thereby minimizing environmental impact and promoting biodiversity. Additionally, IPM can lead to cost savings on pest control measures and enhance the overall health of the cannabis crop.

# 8. Why is crop rotation important?

- a) Increases pest issues
- b) Depletes soil nutrients
- c) Promotes monoculture
- d) Enhances soil health

# Correct Answer: d) Enhances soil health

**Explanation:** Crop rotation involves alternating different crops in the same area across seasons, which helps maintain soil fertility and health. This practice reduces the risk of pests and diseases associated with monoculture and enhances nutrient availability. By improving soil conditions, cannabis growers can achieve better yields while reducing the need for chemical fertilizers and pest control.

# 9. What is a sustainable pest control method?

- a) Biological control
- b) Genetically modified organisms
- c) Synthetic herbicides
- d) Chemical pesticides

# Correct Answer: a) Biological control

**Explanation:** Biological control involves using natural predators or parasites to manage pest populations, reducing the need for chemical pesticides. This eco-friendly approach supports sustainability by preserving biodiversity and minimizing chemical inputs. It can also lead to cost savings as it often requires less financial investment in chemical treatments and fosters a healthier growing environment.



#### 10. What is the role of cover crops?

- a) Require synthetic fertilizers
- b) Compete with cannabis
- c) Increase weed growth
- d) Improve soil structure

Correct Answer: d) Improve soil structure

**Explanation:** Cover crops, such as clover or rye, are planted during the off-season to improve soil health and structure. They prevent erosion, enhance nutrient content, and suppress weeds. By integrating cover crops into cannabis cultivation, growers can enhance sustainability and reduce reliance on chemical fertilizers, ultimately leading to cost savings and healthier crops.

# 11. Which farming method minimizes carbon footprint?

- a) No-till farming
- b) Conventional tillage
- c) Over-application of fertilizers
- d) Heavy machinery use

Correct Answer: a) No-till farming

**Explanation:** No-till farming is a method that reduces soil disturbance, promoting carbon sequestration and preserving soil structure. This approach minimizes the carbon footprint associated with traditional tillage practices, which often release carbon stored in the soil. By adopting no-till methods, cannabis horticulturists can enhance sustainability while potentially reducing labor and fuel costs.

# 12. What is a benefit of using renewable energy?

- a) Promotes energy dependency
- b) Reduces greenhouse gas emissions
- c) Requires fossil fuels
- d) Increases operational costs

Correct Answer: b) Reduces greenhouse gas emissions

**Explanation:** Utilizing renewable energy sources, such as solar or wind power, significantly reduces greenhouse gas emissions compared to fossil fuels. By integrating renewable energy systems into cannabis cultivation, growers can lower their carbon footprint, decrease reliance on non-renewable resources, and often reduce energy costs over time, supporting both sustainability and profitability.



# 13. Why is it important to use local inputs?

- a) Limits biodiversity
- b) Promotes chemical use
- c) Reduces environmental impact
- d) Increases transportation costs

# Correct Answer: c) Reduces environmental impact

**Explanation:** Using locally sourced inputs, such as soil amendments and organic fertilizers, minimizes transportation-related emissions and supports local economies. This practice contributes to sustainability by reducing the carbon footprint associated with long-distance shipping. Additionally, local inputs often align better with regional growing conditions, leading to healthier plants and potentially lower costs.

# 14. What is the purpose of rainwater harvesting?

- a) Promotes water waste
- b) Reduces water costs
- c) Increases water bills
- d) Limits irrigation options

Correct Answer: b) Reduces water costs

**Explanation:** Rainwater harvesting involves collecting and storing rainwater for irrigation, which can significantly reduce water costs for cannabis growers. This sustainable practice helps to conserve natural resources and minimizes reliance on municipal water supplies. By utilizing rainwater, growers can lower their operational expenses and contribute to a more sustainable approach to water management.

#### 15. Which material is best for biodegradable pots?

- a) Plastic containers
- b) Coconut coir
- c) Styrofoam cups
- d) Glass jars

**Correct Answer: b) Coconut coir** 

**Explanation:** Coconut coir is a sustainable, biodegradable material used for planting pots. Unlike plastic or Styrofoam, which contribute to long-term environmental pollution, coconut coir breaks down naturally, enriching the soil as it decomposes. This choice supports sustainable practices in cannabis horticulture while reducing waste and potentially lowering costs associated with disposal.



# 16. What is a key principle of sustainable agriculture?

- a) High chemical use
- b) Soil degradation
- c) Monoculture
- d) Resource conservation

Correct Answer: d) Resource conservation

**Explanation:** Resource conservation is a fundamental principle of sustainable agriculture, emphasizing the efficient use of natural resources to maintain environmental health. Practices that conserve water, soil, and energy contribute to the long-term viability of agricultural systems. By adopting resource-conserving methods, cannabis horticulturists can enhance sustainability while also improving economic outcomes.

# 17. What type of fertilizer is most sustainable?

- a) Chemical fertilizers
- b) Non-renewable fertilizers
- c) Synthetic fertilizers
- d) Organic fertilizers

Correct Answer: d) Organic fertilizers

**Explanation:** Organic fertilizers are derived from natural sources and improve soil health without the negative environmental impacts associated with synthetic options. They promote beneficial microbial activity, enhance nutrient availability, and reduce the risk of chemical runoff into waterways. By using organic fertilizers, cannabis growers can achieve sustainability while often benefiting from cost savings in the long term.

# 18. How does mulching help cannabis plants?

- a) Increases evaporation
- b) Promotes soil erosion
- c) Requires frequent watering
- d) Suppresses weeds

**Correct Answer: d) Suppresses weeds** 

**Explanation:** Mulching involves applying a layer of organic or inorganic material on the soil surface to suppress weed growth and maintain soil moisture. This practice reduces the need for chemical herbicides and helps retain water, contributing to sustainability in cannabis cultivation. By minimizing weed competition, growers can enhance plant health and reduce labor costs associated with weeding.



# 19. What is the advantage of using biopesticides?

- a) Requires extensive application
- b) Increases chemical residues
- c) Promotes environmental harm
- d) Reduces pest resistance

Correct Answer: d) Reduces pest resistance

**Explanation:** Biopesticides are derived from natural materials and are less likely to lead to pest resistance compared to synthetic chemicals. This sustainable approach helps maintain pest populations at manageable levels while minimizing environmental impact. Implementing biopesticides can also result in cost savings over time, reducing the need for more aggressive chemical treatments.

# 20. Which technique enhances biodiversity in cannabis farming?

- a) Synthetic chemical use
- b) Monoculture practices
- c) Soil depletion
- d) Polyculture systems

**Correct Answer: d) Polyculture systems** 

**Explanation:** Polyculture systems involve growing multiple crop species together, which enhances biodiversity and promotes ecosystem stability. This method can improve pest management, enhance soil health, and reduce the need for chemical inputs. By fostering a diverse agricultural environment, cannabis horticulturists can achieve greater resilience and sustainability while potentially increasing yields and reducing costs.

# 21. What is the purpose of using shade cloth?

- a) Increases light exposure
- b) Reduces overheating
- c) Promotes pest proliferation
- d) Limits plant growth

Correct Answer: b) Reduces overheating

**Explanation:** Shade cloth is used in cannabis cultivation to mitigate excessive sunlight and heat, which can stress plants. By providing filtered light, it helps maintain optimal growing conditions, reducing the need for additional cooling systems. This energy-efficient practice supports sustainability while promoting healthier plant development and potentially reducing operational costs.



# 22. Which irrigation method conserves water?

- a) Flood irrigation
- b) Sprinkler systems
- c) Subsurface irrigation
- d) Surface irrigation

# **Correct Answer: c) Subsurface irrigation**

**Explanation:** Subsurface irrigation delivers water directly to the root zone, minimizing evaporation and runoff, thus conserving water. This method is highly efficient compared to traditional irrigation techniques such as sprinkler or flood systems. By implementing subsurface irrigation, cannabis growers can achieve significant water savings and enhance sustainability in their farming practices.

# 23. What is a key benefit of organic pest control?

- a) Enhances ecosystem health
- b) Increases chemical exposure
- c) Promotes monoculture
- d) Requires extensive labor

# Correct Answer: a) Enhances ecosystem health

**Explanation:** Organic pest control methods focus on maintaining the ecological balance by using natural predators or organic treatments. This approach enhances ecosystem health by preserving beneficial insects and reducing chemical exposure. By promoting biodiversity and minimizing environmental impact, organic pest control supports sustainable practices in cannabis cultivation, ultimately benefiting both the environment and the grower.

# 24. Why should cannabis growers practice zero waste?

- a) Promotes waste generation
- b) Limits resource recovery
- c) Reduces environmental pollution
- d) Increases disposal costs

#### Correct Answer: c) Reduces environmental pollution

**Explanation:** Practicing zero waste involves minimizing waste production and maximizing resource recovery through recycling and composting. This approach significantly reduces environmental pollution and promotes sustainability by keeping materials out of landfills. For cannabis growers, implementing zero waste strategies can also lead to cost savings and improved community relations, as they demonstrate a commitment to environmental stewardship.



# 25. What is the benefit of using cover crops?

- a) Increase soil erosion
- b) Improve soil fertility
- c) Require synthetic inputs
- d) Compete with main crops

# **Correct Answer: b) Improve soil fertility**

**Explanation:** Cover crops, such as legumes, are planted to enhance soil fertility by fixing nitrogen and improving soil structure. They prevent erosion and suppress weeds, contributing to a healthier growing environment for cannabis. By integrating cover crops into their farming practices, growers can reduce reliance on chemical fertilizers and promote sustainable agriculture while enhancing overall crop yields.





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

- 2). (A) (B) (C) (D)
- 7). (A) (B) (C) (D)
- 12). A B C D

- 3). (A) (B) (C) (D)
- 8). A B C D
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- 4). (A) (B) (C) (D)
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- 21). (A) (B) (C) (D)
- 17). (A) (B) (C) (D)
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- 23). (A) (B) (C) (D)
- 19). (A) (B) (C) (D)
- 24). A B C D
- 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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- 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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"As an apprentice, the Journeyman Study Guide made complex topics manageable, boosting my confidence, income and carrer." - 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.

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