

QUALIFIED APPLICATOR LICENSE (QAL) PLANT AGRICULTURE PRACTICE TEST (SAMPLE)

STUDY GUIDE



SAMPLE STUDY GUIDE WITH LIMITED QUESTIONS

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THE FULL VERSION STUDY GUIDE

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Table of Contents

Copyright	1
Table of Contents	2
Introduction	3
How to Use This Guide	4
Questions	5
Answers	8
Explanations	10
Next Steps	15

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Introduction

Preparing for a certification exam can feel overwhelming, but with the right tools, it becomes an opportunity to build confidence, sharpen your skills, and move one step closer to your goals. At Examzify, we believe that effective exam preparation isn't just about memorization, it's about understanding the material, identifying knowledge gaps, and building the test-taking strategies that lead to success.

This guide was designed to help you do exactly that.

Whether you're preparing for a licensing exam, professional certification, or entry-level qualification, this book offers structured practice to reinforce key concepts. You'll find a wide range of multiple-choice questions, each followed by clear explanations to help you understand not just the right answer, but why it's correct.

The content in this guide is based on real-world exam objectives and aligned with the types of questions and topics commonly found on official tests. It's ideal for learners who want to:

- Practice answering questions under realistic conditions,
- Improve accuracy and speed,
- Review explanations to strengthen weak areas, and
- Approach the exam with greater confidence.

We recommend using this book not as a stand-alone study tool, but alongside other resources like flashcards, textbooks, or hands-on training. For best results, we recommend working through each question, reflecting on the explanation provided, and revisiting the topics that challenge you most.

Remember: successful test preparation isn't about getting every question right the first time, it's about learning from your mistakes and improving over time. Stay focused, trust the process, and know that every page you turn brings you closer to success.

Let's begin.

How to Use This Guide

This guide is designed to help you study more effectively and approach your exam with confidence. Whether you're reviewing for the first time or doing a final refresh, here's how to get the most out of your Examzify study guide:

1. Start with a Diagnostic Review

Skim through the questions to get a sense of what you know and what you need to focus on. Your goal is to identify knowledge gaps early.

2. Study in Short, Focused Sessions

Break your study time into manageable blocks (e.g. 30 – 45 minutes). Review a handful of questions, reflect on the explanations.

3. Learn from the Explanations

After answering a question, always read the explanation, even if you got it right. It reinforces key points, corrects misunderstandings, and teaches subtle distinctions between similar answers.

4. Track Your Progress

Use bookmarks or notes (if reading digitally) to mark difficult questions. Revisit these regularly and track improvements over time.

5. Simulate the Real Exam

Once you're comfortable, try taking a full set of questions without pausing. Set a timer and simulate test-day conditions to build confidence and time management skills.

6. Repeat and Review

Don't just study once, repetition builds retention. Re-attempt questions after a few days and revisit explanations to reinforce learning. Pair this guide with other Examzify tools like flashcards, and digital practice tests to strengthen your preparation across formats.

There's no single right way to study, but consistent, thoughtful effort always wins. Use this guide flexibly, adapt the tips above to fit your pace and learning style. You've got this!

Questions

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- 1. What pathogen is responsible for avocado root rot?**
 - A. *Oligonychus perseae*
 - B. *Phytophthora cinnamomi*
 - C. *Scirtothrips perseae*
 - D. *Colletotrichum gloesporioides*

- 2. What feature does a piston pump provide that is important for pulverizing materials?**
 - A. Variable pressure adjustment
 - B. Multiple nozzle compatibility
 - C. High pressure capability
 - D. Self-priming function

- 3. Which aphid species is also known as the cotton aphid?**
 - A. *Aphis gossypii*
 - B. *Macrosiphum euphorbiae*
 - C. *Paratrichodorus* spp.
 - D. *Longidorus africanus*

- 4. Which pest is identified as the Obscure Mealybug?**
 - A. *Pseudococcus maritimus*
 - B. *Pseudococcus viburni*
 - C. *Wilsonomyces carpophilus*
 - D. *Botrytis cinerea*

- 5. Which nozzle setup is NOT ideal for applying insecticides to dense foliage?**
 - A. Flooding
 - B. Even spray
 - C. Disc-core
 - D. Cone

6. Which disease is attributed to both *Botryosphaeria* spp. and *Fusicoccum* spp. in avocados?
- A. Branch Canker and Dieback
 - B. Anthracnose
 - C. Crown Gall
 - D. Avocado Root Rot
7. What is the primary disease caused by *Fusarium oxysporum* in tomatoes?
- A. Fusarium wilt
 - B. Tomato leaf spot
 - C. Bacterial blight
 - D. Root rot
8. What is the result of a bypass system becoming restricted in a sprayer?
- A. Increased efficiency
 - B. Reduced spray pressure
 - C. Increased spray volume
 - D. Higher accuracy
9. Which insect is identified as the Egyptian Alfalfa Weevil?
- A. *Colias eurytheme*
 - B. *Hypera postica*
 - C. *Hypera brunneipennis*
 - D. *Aphis craccivora*
10. What class of insects do wireworms belong to?
- A. Belong to the genus *Limonius*
 - B. Order Coleoptera
 - C. Spodoptera spp.
 - D. Order Lepidoptera

Answers

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

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Explanations

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1. What pathogen is responsible for avocado root rot?

- A. Oligonychus perseae
- B. Phytophthora cinnamomi**
- C. Scirtothrips perseae
- D. Colletotrichum gloeosporioides

The pathogen responsible for avocado root rot is *Phytophthora cinnamomi*. This organism is a water mold that thrives in poorly drained soils and is particularly aggressive in tropical and subtropical climates where avocados are grown. It infects the roots of the avocado tree, leading to symptoms such as wilting, yellowing of leaves, and eventual tree decline, as it disrupts the plant's ability to take up water and nutrients. The pathogenicity of *Phytophthora cinnamomi* is due to its ability to produce hardy oospores, which can survive in the soil for long periods, and its capacity to spread through water movement. This makes management of the disease challenging, and practices such as improving soil drainage, planting resistant rootstocks, and employing fungicides may be necessary to control the pathogen's impact. In contrast, the other options represent different pests or pathogens. *Oligonychus perseae* is a mite known to infest avocado leaves, causing damage but not root rot. *Scirtothrips perseae*, a thrip species, primarily feeds on the foliage and can cause cosmetic damage to the fruit but does not cause root diseases. *Colletotrichum gloeosporioides* is a fungal pathogen associated with anth

2. What feature does a piston pump provide that is important for pulverizing materials?

- A. Variable pressure adjustment
- B. Multiple nozzle compatibility
- C. High pressure capability**
- D. Self-priming function

A piston pump is designed to generate high pressure, which is crucial for pulverizing materials effectively. This high pressure enables the pump to force materials through small orifices or nozzles, breaking them down into finer particles. When it comes to pulverizing, high pressure allows for more efficient and effective processing of solids or semi-solids, ensuring that the target material is reduced to the desired size or consistency. The significance of high pressure in the context of pulverizing cannot be overstated; it is a critical component in applications that require the breakdown of tough materials into finer particles. Other features offered by pumps, such as variable pressure adjustment, multiple nozzle compatibility, and self-priming functions, serve specific purposes in various applications but do not directly relate to the core function of pulverization as high pressure does in this context.

3. Which aphid species is also known as the cotton aphid?

- A. Aphis gossypii**
- B. Macrosiphum euphorbiae
- C. Paratrachodorus spp.
- D. Longidorus africanus

The correct answer is *Aphis gossypii*, commonly referred to as the cotton aphid. This species is named for its significant impact on cotton crops, where it can cause damage by feeding on plant sap and transmitting various plant viruses. *Aphis gossypii* has a wide host range, affecting many other plants beyond cotton, but its association with cotton gives it the common name "cotton aphid." The other options do not refer to the cotton aphid. *Macrosiphum euphorbiae* is known as the potato aphid, which primarily affects potato plants and other members of the Solanaceae family. *Paratrachodorus* spp. and *Longidorus africanus* are not aphids at all; they are nematodes, which are totally different organisms that target plant roots rather than the foliage or sap of plants. Understanding these distinctions is critical for effective pest management and crop protection strategies.

4. Which pest is identified as the Obscure Mealybug?

- A. *Pseudococcus maritimus*
- B. *Pseudococcus viburni***
- C. *Wilsonomyces carpophilus*
- D. *Botrytis cinerea*

The Obscure Mealybug is scientifically recognized as *Pseudococcus viburni*. This pest is known for its distinctive appearance and feeding habits, primarily infesting a variety of plants and causing damage by sucking sap from the host. The identification of pests is crucial for effective pest management, and recognizing the specific species allows applicators to implement targeted control strategies. The significance of knowing this particular mealybug lies in its impact on agricultural practices and ornamental plant health, as it can lead to leaf drop, stunted growth, and potentially the spread of sooty mold, which can further complicate plant health problems. Proper identification ensures that growers can utilize the appropriate control measures, whether cultural, biological, or chemical, to mitigate the negative effects of this pest on their crops or ornamental plants.

5. Which nozzle setup is NOT ideal for applying insecticides to dense foliage?

- A. Flooding
- B. Even spray**
- C. Disc-core
- D. Cone

Using an even spray nozzle setup may not be ideal for applying insecticides to dense foliage because it generally delivers a uniform spray pattern that might not penetrate well into thick vegetation. Dense foliage requires more targeted application techniques that can reach into the canopy and effectively cover both upper and lower leaf surfaces where pests may reside. In contrast, other nozzle types like flooding or cone designs can produce larger droplet sizes or different spray patterns that penetrate the canopy better, ensuring that the insecticide reaches hidden pests effectively. For instance, flooding nozzles create a wide, concentrated flow that can saturate areas quickly, while cone nozzles create an expanding spray that allows for greater coverage and reach into complex plant structures. Thus, for applications in dense foliage, setups that emphasize penetration and coverage are more suitable than a setup that solely focuses on even distribution.

6. Which disease is attributed to both *Botryosphaeria* spp. and *Fusicoccum* spp. in avocados?

- A. Branch Canker and Dieback**
- B. Anthracnose
- C. Crown Gall
- D. Avocado Root Rot

The disease attributed to both *Botryosphaeria* spp. and *Fusicoccum* spp. in avocados is Branch Canker and Dieback. This disease is characterized by the wilting, dieback, and eventual death of branches on avocado trees. Both pathogens are known to cause this issue by infecting the tree and leading to the development of lesions that disrupt the flow of nutrients and water within the plant. In contrast, the other diseases listed are caused by different pathogens. Anthracnose, which is caused primarily by *Colletotrichum* spp., primarily affects the fruit and foliage rather than causing branch dieback. Crown Gall is caused by *Agrobacterium tumefaciens* and results in tumors and growths primarily at the crown of the plant, while Avocado Root Rot is mainly caused by the pathogen *Phytophthora cinnamomi*, affecting the root system and leading to decline and death of the tree through root damage. Thus, Branch Canker and Dieback specifically relates to the causal pathogens mentioned in the question, establishing it as the correct answer.

7. What is the primary disease caused by *Fusarium oxysporum* in tomatoes?

- A. Fusarium wilt**
- B. Tomato leaf spot
- C. Bacterial blight
- D. Root rot

Fusarium oxysporum is a soil-borne fungus that is well-known for causing Fusarium wilt in tomatoes. This disease is characterized by yellowing and wilting of the leaves, often starting with the lower leaves, and it typically progresses up the plant. The fungus invades the plant's vascular system, leading to water and nutrient transport issues which ultimately can cause the plant to wilt and die. The pathogen can survive in the soil for extended periods and can affect a range of other plants, but in the context of tomatoes, Fusarium wilt is the primary disease associated with this pathogen. The other options, while related to various problems that can affect tomato crops, do not specifically result from *Fusarium oxysporum*, making Fusarium wilt the correct association for this question.

8. What is the result of a bypass system becoming restricted in a sprayer?

- A. Increased efficiency
- B. Reduced spray pressure**
- C. Increased spray volume
- D. Higher accuracy

When a bypass system in a sprayer becomes restricted, the most likely result is reduced spray pressure. A bypass system is designed to allow excess liquid to circulate back to the tank rather than through the spray nozzle. This mechanism helps maintain consistent pressure in the system. If the bypass line experiences restrictions, it can disrupt this balance, leading to a decrease in spray pressure. Lower spray pressure can significantly impact the efficacy of the application, as it may not provide adequate coverage or penetration of the target area, potentially leading to uneven application and reduced effectiveness of the pesticide or nutrient being applied. Understanding the dynamics of pressure within sprayer systems is essential for effective pest and crop management practices.

9. Which insect is identified as the Egyptian Alfalfa Weevil?

- A. *Colias eurytheme*
- B. *Hypera postica*
- C. *Hypera brunneipennis***
- D. *Aphis craccivora*

The Egyptian Alfalfa Weevil is scientifically classified as *Hypera postica*. This insect is known to be a significant pest of alfalfa and can severely impact crop yields by feeding on the leaves. Identifying pests by their correct scientific names is crucial for effective pest management strategies, as it helps in understanding their life cycles, behaviors, and appropriate control measures. The other choices are distinct insects with different characteristics and behaviors. For instance, *Colias eurytheme* is a species of butterfly known as the orange sulfur, which does not target alfalfa. *Hypera brunneipennis* is another species of weevil, but it is not recognized as the Egyptian Alfalfa Weevil. *Aphis craccivora*, commonly known as the cowpea aphid, is an aphid that primarily affects legumes, including alfalfa, but is unrelated to the weevil family. Recognizing the correct identity of pests, such as *Hypera postica*, is imperative for implementing the right agricultural practices and controls.

10. What class of insects do wireworms belong to?

A. Belong to the genus Limonius

B. Order Coleoptera

C. Spodoptera spp.

D. Order Lepidoptera

Wireworms are the larval stage of click beetles, which are classified under the order Coleoptera. This order encompasses a vast variety of beetles, and wireworms specifically come from several genera, including Limonius. The correct answer highlights the specific genus of one of the types of wireworms, emphasizing their classification within a larger context. Understanding that wireworms are associated with Coleoptera helps in recognizing their biology, life cycle, and ecological role within agriculture. This classification is significant for pest management strategies, as it allows for proper identification and understanding of their impact on crops. The mention of Spodoptera spp. points to a different group entirely, known for its larvae as armyworms, which are not directly related to wireworms. Likewise, the order Lepidoptera features moths and butterflies, making it irrelevant in this context. Focusing on Limonius connects the specific identity of wireworms to their broader classification within the Coleoptera order, offering a comprehensive understanding of their role in the agricultural ecosystem.

Next Steps

Congratulations on reaching the final section of this guide. You've taken a meaningful step toward passing your certification exam and advancing your career.

As you continue preparing, remember that consistent practice, review, and self-reflection are key to success. Make time to revisit difficult topics, simulate exam conditions, and track your progress along the way.

If you need help, have suggestions, or want to share feedback, we'd love to hear from you. Reach out to our team at hello@examzify.com.

Or visit your dedicated course page for more study tools and resources:

<https://qalplantagriculture.examzify.com>

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

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