

New Jersey Pesticide Core Applicator Practice Test (Sample)

Study Guide



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SAMPLE

Questions

- 1. In pesticide labeling, what is the meaning of the word 'inert'?**
 - A. Active ingredient**
 - B. Non-active ingredient**
 - C. Harmful ingredient**
 - D. Essential ingredient**
- 2. Are protective safety equipment measures required during the measuring, weighing, and mixing of pesticides?**
 - A. Yes, they are required**
 - B. No, they are not required**
 - C. Only for certain pesticides**
 - D. Only for outdoor applications**
- 3. The hazard of a pesticide is defined as:**
 - A. The same as its toxicity**
 - B. Its inherent danger**
 - C. Indicated by the signal word on the label**
 - D. A measure of effectiveness**
- 4. Which type of pesticide application requires particular attention to soil temperature and moisture?**
 - A. Insecticide**
 - B. Fungicide**
 - C. Nematicide**
 - D. Herbicide**
- 5. True or False: Overdoses of pesticides that remain in the soil for long periods can be harmful to future crops.**
 - A. True**
 - B. False**
- 6. Which federal agency sets food tolerances for pesticides?**
 - A. Drug Enforcement Administration - DEA**
 - B. Environmental Protection Agency - EPA**
 - C. Food and Drug Administration - FDA**
 - D. Department of Agriculture - USDA**

- 7. When should applicators working with highly toxic organophosphate or carbamate insects have their cholinesterase level checked?**
- A. Before spray season starts**
 - B. At mid season**
 - C. At the end of the season**
 - D. All of the above**
- 8. Which pesticide formulation has the lowest concentration?**
- A. 4F**
 - B. 10WP**
 - C. 25G**
 - D. 8D**
- 9. What is a major concern regarding persistent pesticides?**
- A. They are less effective over time**
 - B. They may accumulate in the environment**
 - C. They are more costly**
 - D. They are easier to apply**
- 10. What does part of the certification process for commercial pesticide applicators involve?**
- A. Passing a dealer exam**
 - B. Passing only a core exam**
 - C. Passing core and category exams**
 - D. No exams are required**

Answers

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

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Explanations

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1. In pesticide labeling, what is the meaning of the word 'inert'?

- A. Active ingredient**
- B. Non-active ingredient**
- C. Harmful ingredient**
- D. Essential ingredient**

The term 'inert' in pesticide labeling refers specifically to non-active ingredients in a pesticide formulation. These substances do not have a direct role in controlling pests but serve various purposes that may include acting as carriers, solvents, emulsifiers, or stabilizers. Inerts can help improve the effectiveness of the active ingredients by aiding their application or enhancing their stability. It's important to note that 'inert' does not mean that these ingredients are harmless; they can still pose risks or hazards under certain conditions. The distinction is made primarily to highlight that they do not directly contribute to the pesticide's efficacy against pests. Understanding this term is crucial for both applicators and consumers to fully comprehend the composition and potential hazards associated with pesticide products.

2. Are protective safety equipment measures required during the measuring, weighing, and mixing of pesticides?

- A. Yes, they are required**
- B. No, they are not required**
- C. Only for certain pesticides**
- D. Only for outdoor applications**

Protective safety equipment measures are indeed required during the measuring, weighing, and mixing of pesticides to ensure the safety of the applicator and those nearby. The correct response emphasizes that such safety measures are essential regardless of the setting or specific pesticide being used. This requirement is grounded in the risk that pesticides pose, as exposure can occur through skin contact, inhalation, or accidental ingestion. Depending on the type of pesticide and the specific formulation, different types of personal protective equipment (PPE), such as gloves, goggles, respirators, and protective clothing, are mandated to minimize these risks during handling processes. This practice reinforces the general policy that every applicator must take precautions to protect themselves and bystanders from potential harm. In contrast, the incorrect options suggest scenarios where protection may not be necessary, which does not align with safety regulations and best practices in pesticide application. This highlights the importance of universally adhering to protective measures when dealing with hazardous substances, ensuring both compliance with legal standards and the health of individuals involved.

3. The hazard of a pesticide is defined as:

- A. The same as its toxicity
- B. Its inherent danger**
- C. Indicated by the signal word on the label
- D. A measure of effectiveness

The definition of a pesticide hazard is best captured by its inherent danger. This concept refers to the potential risk that pesticides pose to humans, animals, and the environment. It encompasses the characteristics of the pesticide itself, such as its properties and how it behaves in various scenarios. Understanding this inherent danger allows applicators and users to assess the potential consequences of exposure or mishandling, regardless of the actual exposure level. While toxicity is related, as it measures how harmful a substance can be, it does not alone define the hazard because it does not account for exposure scenarios or the context in which the pesticide is used. The signal word on the label indicates the level of toxicity and provides some guidance about the potential hazard, but it does not encompass the full understanding of hazard as it relates to all safety considerations and risk factors related to the pesticide. Similarly, effectiveness pertains to how well a pesticide works in its intended role, but it does not address safety or risk, which are crucial components of understanding pesticide hazards.

4. Which type of pesticide application requires particular attention to soil temperature and moisture?

- A. Insecticide
- B. Fungicide**
- C. Nematicide
- D. Herbicide

Fungicides require particular attention to soil temperature and moisture because their effectiveness is heavily influenced by environmental conditions. Soil temperature can affect the growth and reproduction of pathogens, such as fungi, which fungicides typically target. Warmer soil temperatures may enhance fungal activity, indicating a higher likelihood of disease, making timely application of fungicides crucial. Similarly, moisture levels in the soil can influence fungal development; too much moisture can facilitate fungal growth, while insufficient moisture may hinder the effectiveness of fungicides. Understanding these factors allows applicators to make informed decisions about the timing and application of fungicides, optimizing the control of plant diseases. In contrast, while insecticides, nematicides, and herbicides may also be influenced by environmental conditions, they do not rely as heavily on specific soil temperature and moisture conditions in the same way that fungicides do, making them less critical in this context.

5. True or False: Overdoses of pesticides that remain in the soil for long periods can be harmful to future crops.

A. True

B. False

The assertion that overdoses of pesticides that remain in the soil for long periods can be harmful to future crops is true. Persistent pesticides can lead to several negative effects on soil health and crop productivity. When pesticides are applied excessively, their residues can accumulate in the soil, creating an environment that is toxic to various beneficial organisms, such as soil microbes and earthworms. These organisms play crucial roles in nutrient cycling, soil structure, and overall ecosystem health. Additionally, the presence of high pesticide concentrations can lead to phytotoxicity, where future crops may exhibit symptoms of injury or reduced growth due to the chemical residues. Depending on the chemical nature of the pesticide, it may also affect the soil's physical and chemical properties, making it less fertile or inhibiting seed germination and plant development. Thus, the long-term implications of pesticide overdoses not only impact immediate crop health but can also have lasting effects on agricultural land and future harvests, making it essential for applicators to adhere to recommended application rates and practices.

6. Which federal agency sets food tolerances for pesticides?

A. Drug Enforcement Administration - DEA

B. Environmental Protection Agency - EPA

C. Food and Drug Administration - FDA

D. Department of Agriculture - USDA

The correct choice identifies the Environmental Protection Agency (EPA) as the federal agency responsible for establishing food tolerances for pesticides. The EPA plays a crucial role in regulating the application of pesticides and ensuring that they do not pose risks to human health or the environment. When a pesticide is registered for use and proposed for use on food crops, the EPA assesses the potential risks associated with its application. Part of this assessment involves determining acceptable levels of pesticide residues that can remain on food products, known as tolerances. These tolerances help ensure that the food supply remains safe for consumption. While the Food and Drug Administration (FDA) oversees food safety and may enforce tolerance levels set by the EPA, it does not establish these tolerances. Similarly, the Drug Enforcement Administration (DEA) is primarily focused on enforcing the controlled substances laws and regulations, and the Department of Agriculture (USDA) deals with agriculture and food inspection but does not set pesticide tolerances. Thus, the EPA is the agency that plays the central role in determining safe levels of pesticide residues that protect public health.

7. When should applicators working with highly toxic organophosphate or carbamate insects have their cholinesterase level checked?

- A. Before spray season starts**
- B. At mid season**
- C. At the end of the season**

D. All of the above

Monitoring cholinesterase levels in applicators who work with highly toxic organophosphate or carbamate insecticides is essential for ensuring their health and safety. Organophosphates and carbamates can inhibit cholinesterase, an enzyme vital for normal nerve function, so checking cholinesterase levels at various points during the season helps detect any detrimental effects early. Having a baseline measurement before the spray season begins allows for an understanding of the applicator's initial health status. Mid-season testing provides an opportunity to identify any early signs of cholinesterase inhibition, allowing for timely interventions if levels drop significantly. End-of-season testing is also critical to assess the cumulative effects of exposure over the season and to ensure that the applicator has returned to a safe level of cholinesterase post-exposure. By checking cholinesterase levels at the beginning, middle, and end of the season, applicators and employers can maintain a proactive approach to health risk management while working with these toxic substances. This comprehensive monitoring helps ensure that applicators are not experiencing harmful effects from their exposure and allows for necessary adjustments in practices or protective measures.

8. Which pesticide formulation has the lowest concentration?

- A. 4F**
- B. 10WP**
- C. 25G**

D. 8D

The formulation labeled as 8D indicates that it is a dilute formulation, which typically represents a lower concentration of the active ingredient compared to other formulations. In pesticide formulations, the letter or symbol often signifies the type of formulation and the concentration can generally be inferred from the number associated with it. When comparing different formulations, the number typically indicates the concentration or specific measurement of the active ingredient. A formulation denoted with a lower number, such as 8D, suggests that it contains less of the active ingredient than others like 4F, 10WP, or 25G. In contrast, formulations like 4F (which stands for a flowable formulation), 10WP (wetttable powder), and 25G (granular formulation), suggest higher concentrations based on their respective numerical values. The presence of higher numerical values correlates to higher concentrations in those formulations. Thus, 8D is recognized for having the lowest concentration of the active ingredient among the options provided.

9. What is a major concern regarding persistent pesticides?

- A. They are less effective over time
- B. They may accumulate in the environment**
- C. They are more costly
- D. They are easier to apply

Persistent pesticides are a significant concern primarily because they have the potential to accumulate in the environment. This accumulation can lead to long-term contamination of soil, water, and other natural resources. As these chemicals break down slowly, they can remain in the environment for extended periods, posing risks to non-target organisms, including beneficial insects, wildlife, and even humans. The implications of such accumulation are concerning, as it can disrupt ecosystems, harm biodiversity, and lead to chronic exposure for various organisms. Notably, the persistence of these pesticides can also result in bioaccumulation in the food chain, where higher trophic levels may experience higher concentrations, resulting in potentially harmful effects. Pesticides that are less effective over time, more costly, or easier to apply do not directly connect to the main environmental concern, as the persistence of the chemical and its long-term impact on ecosystems is the most critical issue. Therefore, the focus on accumulation in the environment highlights why understanding the behavior of persistent pesticides is essential for effective pest management and environmental protection.

10. What does part of the certification process for commercial pesticide applicators involve?

- A. Passing a dealer exam
- B. Passing only a core exam
- C. Passing core and category exams**
- D. No exams are required

The certification process for commercial pesticide applicators is designed to ensure that individuals have a thorough understanding of both general principles and specific techniques relevant to their area of application. Passing both core and category exams is crucial. The core exam assesses fundamental knowledge, which includes topics such as pesticide laws, safety practices, and environmental considerations. The category exam focuses on specialized skills and knowledge tailored to specific types of applications, such as agricultural, structural, or residential pest control. This two-part examination ensures that applicators not only understand the general practices and regulations governing pesticide use but also possess the necessary expertise and skills for the specific types of work they intend to perform. This multi-faceted approach is critical for ensuring the safe and effective use of pesticides in diverse settings.