

New Jersey Pesticide Core Applicator Practice Test (Sample)

Study Guide



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SAMPLE

Questions

- 1. If a highly toxic pesticide spills on your skin, when is it safest to wash the exposed area?**
 - A. Immediately**
 - B. Anytime within 2 hours after exposure**
 - C. Anytime during the day of exposure**
 - D. At the usual bathing time**
- 2. Which pesticide formulation has the lowest concentration?**
 - A. 4F**
 - B. 10WP**
 - C. 25G**
 - D. 8D**
- 3. What is the most likely form of pesticide exposure for applicators?**
 - A. By inhalation during spraying**
 - B. By eating food with excess pesticide residues**
 - C. Through dermal (skin) exposure**
 - D. By drinking contaminated water**
- 4. True or False: Low toxicity is indicated by a low LD50.**
 - A. True**
 - B. False**
 - C. Depends on the pesticide**
 - D. Cannot be determined**
- 5. If an insecticide is effective against a wide variety of insects, it is called?**
 - A. Selective insecticide**
 - B. Systemic insecticide**
 - C. Broad spectrum insecticide**
 - D. Narrow spectrum insecticide**

- 6. In New Jersey, what is a requirement for private applicators regarding pesticide use?**
- A. They can apply pesticides only on property they do not own**
 - B. They can apply pesticides to produce agricultural commodities primarily on the property of others**
 - C. They must apply pesticides on their own property to produce agricultural commodities**
 - D. They need a commercial license to apply pesticides**
- 7. When using herbicides, what is a common challenge when targeting weeds?**
- A. Weeds have immune systems**
 - B. Crops may sustain damage**
 - C. Herbicides can improve soil quality**
 - D. Weeds grow faster than crops**
- 8. True or False: Granules and dust usually contain a high percentage of diluent.**
- A. True**
 - B. False**
 - C. Depends on the formulation**
 - D. Only in specific pesticides**
- 9. True or False: There is no need to provide medical doctors with information about pesticide symptoms and treatments.**
- A. True**
 - B. False**
 - C. Only necessary in emergencies**
 - D. Only for certain pesticides**
- 10. Do all pesticides have antidotes listed on their labels?**
- A. Yes, all have antidotes**
 - B. No, not all have antidotes**
 - C. Only the highly toxic ones**
 - D. Only for specific user groups**

Answers

SAMPLE

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

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Explanations

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1. If a highly toxic pesticide spills on your skin, when is it safest to wash the exposed area?

A. Immediately

B. Anytime within 2 hours after exposure

C. Anytime during the day of exposure

D. At the usual bathing time

Washing the exposed area immediately after a highly toxic pesticide spill is crucial for minimizing potential harm. Immediate action helps to reduce the absorption of the toxic substance into the skin, thereby decreasing the likelihood of serious health effects. The faster the contaminated skin is washed, the more effective the removal of harmful residues will be. Delaying washing, even by a short period, increases the risk of the pesticide penetrating deeper into the skin, which can lead to more severe systemic effects. The other options suggest varying delays in washing that could compromise safety, as they imply a tolerance to leaving the pesticide on the skin, which is not advisable. Immediate washing is the best protective measure available in such situations.

2. 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 (wettable 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.

3. What is the most likely form of pesticide exposure for applicators?

- A. By inhalation during spraying**
- B. By eating food with excess pesticide residues**
- C. Through dermal (skin) exposure**
- D. By drinking contaminated water**

The most likely form of pesticide exposure for applicators is through dermal, or skin, exposure. During the application of pesticides, operators frequently handle equipment, make adjustments, and come into contact with surfaces that may be treated with pesticides. Additionally, products can splatter or drift and come into contact with the skin. Dermal exposure is particularly significant because the skin can absorb certain pesticides, leading to systemic exposure. Proper personal protective equipment (PPE) like gloves, long sleeves, and protective clothing is essential to minimize this risk. While inhalation during spraying can occur, especially when using aerosol formulations, dermal exposure is often more prevalent due to the hands-on nature of pesticide applications. Eating food with pesticide residues or drinking contaminated water represents indirect exposure routes that are less likely for applicators directly applying pesticides.

4. True or False: Low toxicity is indicated by a low LD50.

- A. True**
- B. False**
- C. Depends on the pesticide**
- D. Cannot be determined**

The statement "Low toxicity is indicated by a low LD50" is indeed false. LD50, which stands for "lethal dose for 50% of the test population," is a common measure used to assess the acute toxicity of a substance, including pesticides. A **low LD50 value** indicates that the substance is more toxic because a smaller amount is required to reach the lethal dose for half of the test subjects. Conversely, a **high LD50 value** suggests lower toxicity, as it would take a larger amount of the substance to reach the same lethal effect. Understanding this concept is crucial for anyone working with pesticides, as it helps in making informed decisions regarding safe application, handling, and overall management of pesticide risks. In this context, low toxicity is linked to a high LD50, not the other way around.

5. If an insecticide is effective against a wide variety of insects, it is called?

- A. Selective insecticide**
- B. Systemic insecticide**
- C. Broad spectrum insecticide**
- D. Narrow spectrum insecticide**

An insecticide that is effective against a wide variety of insects is classified as a broad spectrum insecticide. This type of insecticide targets multiple species across different groups, making it particularly useful for dealing with diverse pest problems. Broad spectrum insecticides can eliminate various pests at different life stages, offering a more comprehensive approach to pest control compared to those that target a limited range of insects. In contrast, selective insecticides are designed to affect only specific species or groups, minimizing harm to beneficial organisms. Systemic insecticides are absorbed by plants and can affect insects feeding on those plants but do not necessarily imply a broad spectrum of activity across different insect groups. Narrow spectrum insecticides target only a limited range of insect pests, further differentiating them from broad spectrum options. Understanding these classifications helps in the responsible selection and application of insecticides in pest management strategies.

6. In New Jersey, what is a requirement for private applicators regarding pesticide use?

- A. They can apply pesticides only on property they do not own**
- B. They can apply pesticides to produce agricultural commodities primarily on the property of others**
- C. They must apply pesticides on their own property to produce agricultural commodities**
- D. They need a commercial license to apply pesticides**

In New Jersey, a requirement for private applicators is that they must apply pesticides on their own property to produce agricultural commodities. This rule is designed to ensure that individuals who use pesticides for agricultural purposes have direct control over the land they are treating. It emphasizes responsible pesticide use within the confines of their property, fostering an understanding of the environmental impacts and regulations associated with pesticide application. Private applicators are typically farmers or those engaged in agricultural production, and by applying pesticides only on their own land, they can closely monitor the conditions and ensure compliance with safety guidelines. This requirement helps to protect public health and the environment by limiting the potential for misuse or drift from one property to another, which can occur when chemicals are applied on someone else's property without the same level of accountability. While it is essential to understand the responsibilities of private applicators, other options suggest applying pesticides under different circumstances that do not align with the established regulations for private applicators in New Jersey. Therefore, option C is the accurate representation of the requirements placed on private applicators in the state.

7. When using herbicides, what is a common challenge when targeting weeds?

- A. Weeds have immune systems**
- B. Crops may sustain damage**
- C. Herbicides can improve soil quality**
- D. Weeds grow faster than crops**

When using herbicides, the challenge of crops sustaining damage is particularly relevant due to the specificity of herbicides. Many herbicides are designed to target specific types of plants, but there is always a risk that these chemicals can drift or be absorbed by non-target plants, including crops. This unintended damage can lead to stunted growth, reduced yields, or even the death of the crops, which is a significant concern for farmers and applicators who must balance weed control with crop health. The presence of other options can offer context to this challenge. While weeds do exhibit adaptive traits and can develop resistance to herbicides, they do not have immune systems like living organisms, which would imply a different biological system. The notion that herbicides improve soil quality is generally not true; in fact, over-reliance on chemical treatments can lead to soil degradation and affect soil microorganisms negatively. Lastly, while some weeds may grow quickly, this factor alone doesn't directly relate to herbicide use—crops and weeds compete for resources, but it's the collateral damage to crops that poses a more significant challenge for applicators when using herbicides.

8. True or False: Granules and dust usually contain a high percentage of diluent.

- A. True**
- B. False**
- C. Depends on the formulation**
- D. Only in specific pesticides**

Granules and dust formulations often include a high percentage of diluent, which serves several important functions. A diluent is an inert substance that does not affect the pesticide's efficacy but helps to facilitate application and improve distribution of the active ingredient. In granules, the diluent allows for easier handling and spreading, and in dust formulations, it helps in achieving the right particle size and enhances the ability of the product to adhere to surfaces. The high percentage of diluent is necessary to ensure that the product can effectively cover the target area rather than being concentrated in one spot. This increases the likelihood of the pesticide coming into contact with pests while minimizing potential harm to non-target species or the environment. The use of diluents is particularly critical in ensuring the safety and effectiveness of these types of pesticide formulations.

9. True or False: There is no need to provide medical doctors with information about pesticide symptoms and treatments.

A. True

B. False

C. Only necessary in emergencies

D. Only for certain pesticides

Providing medical doctors with information about pesticide symptoms and treatments is essential in ensuring appropriate care for individuals potentially affected by pesticide exposure. This information aids healthcare professionals in accurately diagnosing and effectively treating pesticide-related illnesses. When healthcare providers are aware of specific symptoms associated with particular pesticides, they can offer targeted treatment and implement necessary interventions more efficiently. Furthermore, pesticide labels often contain vital first aid instructions and symptoms that can guide medical personnel in managing an exposure incident. Relying solely on the doctor's general knowledge or experience without sharing this relevant information could potentially delay treatment and lead to worse health outcomes. Therefore, it is crucial to inform medical professionals about any pesticide exposure to ensure that appropriate responses and treatments are initiated swiftly and effectively.

10. Do all pesticides have antidotes listed on their labels?

A. Yes, all have antidotes

B. No, not all have antidotes

C. Only the highly toxic ones

D. Only for specific user groups

Pesticides do not all have antidotes listed on their labels. This is because the availability of an antidote depends on the specific active ingredient and its mode of action, as well as the likelihood of exposure and the associated risks. Many pesticides are designed to be safe when used according to label directions, and while some may have antidotes due to their toxicity or the nature of their chemical action, an antidote may not be necessary or available for all pesticides. Additionally, each pesticide is evaluated based on its risks and benefits, and in many cases, there are effective first aid measures that do not involve specific antidotes. Therefore, the absence of an antidote on a pesticide label does not imply that the product is unsafe but rather indicates the type of chemical and the safety protocols associated with it. This illustrates the importance of thoroughly reading and understanding pesticide labels and safety information.