

**Exam Knowledge Expectations for  
Qualified Applicator Certificate & Qualified Applicator License  
C – Right-of-Way Pest Control Category**

Use these knowledge expectations (KEs) to help study the suggested material,  
*Forest and Right-of-Way Pest Control* (2013 Edition)  
Knowing the information from all of the KEs should prepare you for taking the exam.

### **Chapter 2 Pests and Problem Diagnosis**

- A. Recognize the major types of pests and their life cycles and life stages and know why life stages and life cycles are important for pest identification and management.
- B. Know the common causes of abiotic plant damage, be aware that abiotic factors may cause symptoms that resemble damage from pest organisms (biotic factors), and know how abiotic disorders and pest organisms often work in combination to damage or kill plants.

### **Chapter 3 Integrated Pest Management (IPM)**

- A. Demonstrate practical knowledge of integrated pest management methods for the major vertebrate pests and weeds and know these methods' advantages and disadvantages.

### **Chapter 4 Pesticide Safety and Hazards**

- A. Recognize the various parts of a pesticide label and be able to locate specific information on the label.
- B. Understand the concept of different toxicities of pesticides and know how to learn the specific hazards of a particular pesticide.
- C. Understand how people get exposed to pesticides and know what the acute health effects and symptoms are for pesticide exposure.
- D. Know the proper response and procedures for pesticide emergencies, including first aid for pesticide exposure.
- E. Know how to protect people and the environment from potential pesticide hazards.

### **Chapter 5 Pesticide and Their Effective Use**

- A. Be familiar with the different types of pesticide active ingredients and formulations and understand pesticide selectivity and the principles of the selective use of broad-spectrum and nonselective pesticides.
- B. Know how to legally and safely handle pesticides, including transportation, mixing, loading, applying, storing, and disposing of pesticides or pesticide containers.
- C. Describe the types and causes of pesticides moving off-site and how to avoid this off-site movement.

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**Chapter 6 Application Equipment and Calibration**

- A. Know how to properly and legally apply pesticides using the types of application equipment that are appropriate for your work sites.
- B. Be familiar with the different types and arrangements of spray nozzles and know how they affect application.
- C. Know the general procedures for calibration and how to calculate how much pesticide to apply to a known area.

**Chapter 10 Rights-of-Way**

- A. Name the types of sites in the Right-of-Way Pest Control category along with characteristics that affect their management, such as terrain, land use, and ownership.
- B. Describe the types of areas likely to be encountered near rights-of-way, especially their physical and biological characteristics and whether people are likely to be present, and describe how decision-making about right-of-way management can be affected by these adjacent areas and the underlying property ownership.
- C. Know the major management goals for each type of right-of-way and know how the goals and management methods sometimes differ according to the type of site and its uses.

**Chapter 11 Right-of-Way Pest Management**

- A. Know the major types of plants and their life cycles.
- B. Know how different plant types and life stages affect the timing and effectiveness of each vegetation management method.
- C. Demonstrate practical knowledge of herbicide and non-herbicide vegetation management methods and know the advantages and disadvantages of each method.
- D. Describe the major types of herbicides and other pesticides used in rights-of-way.
- E. Know what types of pests and pest life stages are controlled by the various types of pesticides.
- F. Be able to recognize the unique application settings and situations when rights-of-way pass near or through surface waters, school grounds, Ground Water Protection Areas, and other sensitive areas, know what precautions to take in these pesticide use situations, know whether there are any special local regulations, and know whom to consult before you apply pesticide.