

OREGON DEPARTMENT OF AGRICULTURE

CONSULTANT

EXAMINATION OUTLINE

To successfully complete this examination, the applicant will need to be familiar with the topics identified in this outline. The outline is not intended to be used as the sole study material and may not be all inclusive of topics covered in the exam. See "Pesticide Licensing Guide for Oregon" (available online or by calling 503-986-4635) for details on recommended study material.

It is advisable to bring a small, hand held calculator to the exam session to assist in performing calculations. The computer-based exam has 125 questions. The paper-based exam has 200 questions. A score of 70% is needed to pass the exam. **Government issued photo identification (such as a driver's license) will be required when you check in for testing.**

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1. Pesticide Laws and Regulations
 - a. Agencies involved and areas of responsibility
 1. Federal agencies
 2. State agencies
 - b. Licensing types and authorized activities
 1. Private pesticide applicator
 2. Public pesticide applicator
 3. Commercial pesticide applicator
 4. Commercial pesticide operator
 5. Pesticide consultant
 - c. Certification
 1. Definition
 2. Period of time certification is valid
 - (a). Private pesticide applicator
 - (b). Public pesticide applicator
 - (c). Commercial pesticide applicator
 - (d). Commercial pesticide operator
 - d. Licensing
 1. Definition
 2. Period of time license is valid
 - (a). Private pesticide applicator
 - (b). Public pesticide applicator
 - (c). Commercial pesticide applicator
 - (d). Commercial pesticide operator
 - (e). Pesticide consultant
 - e. Pesticide registrations
 1. Federal registrations
 2. State registrations
 - (a). Special Local Need (SLN) – [sec. 24(c)]
 - (b). Emergency Exemption – [sec. 18]
2. Toxicology and Worker Safety
 - a. LD 50 values and pesticide toxicity
 - b. Safety equipment
 1. Respirators
 2. Gloves
 3. Boots
 4. Minimum clothing requirement
 - c. Storage and transportation
 - d. Spills and cleanup
 - e. First aid for pesticide poisoning
3. Environmental Concerns
 - a. Pesticide disposal
 - b. Groundwater contamination
 - c. Endangered species and threatened species
 - d. Methods of decreasing pesticide drift

- 4. Pesticide Characteristics
 - a. General vs. Restricted Use
 - b. Terminology
 - c. Formulations
 - d. Adjuvants
 - e. Specific pesticides
 - 1. Mode of action
 - 2. Timing
 - 3. Effects on pest
- 5. Pest Control Techniques/Strategies
 - a. Integrated Pest Management (IPM)
 - b. Pest resistance to pesticides
- 6. Equipment/Application Techniques
 - a. Nozzle types
 - b. Pumps and pump maintenance
- 7. Calculations
 - a. Determination of Acreage
 - b. Amount of active ingredient (AI) per acre
 - c. Amount of total mixture applied
 - d. Amount of water needed for mixing
- 8. Label Interpretation
 - a. Signal Words
 - 1. Danger
 - 2. Warning
 - 3. Caution
 - b. Product Names
 - 1. Trade name
 - 2. Common name
 - 3. Chemical name
 - c. Formulations
 - 1. Wettable powder (WP)
 - 2. Soluble powder (SP)
 - 3. Emulsifiable concentrate (EC)
 - 4. Granular (G)
 - 5. Solution (S)
 - 6. Dry flowables (DF)
 - d. Precautionary Statements
 - 1. Protective clothing and equipment
 - 2. Environmental hazards
 - e. Legal Interpretation of Label Directions
 - 1. Pests controlled
 - 2. Sites of application
 - 3. Dilution rate
 - 4. Application techniques
- 9. Sprayer Calibration
 - a. Definition
 - b. Adjustment techniques

10. Pest Characteristics

a. Insects/Mites

b. Diseases

c. Weeds (life cycles)

1. Annual

2. Biennial

3. Perennial