

# **OREGON DEPARTMENT OF AGRICULTURE**

## **PESTICIDE**

### **EXAMINATION OUTLINE**

To successfully complete this examination, the applicant will need to be familiar with 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 the ODA website <http://oregon.gov/ODA/PEST> or the “Guide to Pesticide-Related Licensing in Oregon” (available on the web 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. This exam has 75 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.

OREGON DEPARTMENT OF AGRICULTURE  
PESTICIDE EXAMINATION OUTLINE  
DIRECTLY SUPERVISED TRAINEE

- 1) Environment
  - a) Drift
    - i) Particle drift
    - ii) Vapor drift
  - b) Groundwater contamination
    - i) Pesticide transport in the environment
    - ii) Soil types
  - c) Wildlife
  - d) Pesticide persistence
    - i) Factors influencing persistence
  - e) Processes for degradation
- 2) Calibration, calculations and equipment
- 3) Integrated Pest Management
  - a) Definition of IPM
  - b) Advantages of IPM
  - c) Types of control methods
  - d) Scouting and monitoring
  - e) Economic threshold
  - f) Economic injury level
- 4) Pest characteristics
- 5) Safety and handling
  - a) Pesticide transportation, storage and disposal
    - i) Storage
      - (1) Facility requirements
      - (2) Keep site safe
    - ii) Transportation
      - (1) Where in vehicle to carry pesticides
      - (2) Placarding and shipping documents
      - (3) MSDSs
    - iii) Spills
      - (1) Control
      - (2) Contain
      - (3) Cleanup
      - (4) OERS
    - iv) Disposal
      - (1) Disposal of unwanted pesticide product
    - v) Disposal of pesticide containers
  - b) Protective clothing and equipment
    - i) General clothing requirements
    - ii) Respirator types and uses
    - iii) Decontamination and cleanup

- c) First aid and toxicity
  - i) First aid
    - (1) Signs and symptoms
    - (2) First aid and the label
    - (3) What to do in an emergency
  - ii) Toxicity
    - (1) LD50 values
    - (2) Acute vs. chronic effects
    - (3) Routes of exposure
    - (4) Cholinesterase monitoring
- 6) Pesticide characteristics
  - a) Types of pesticides (insecticides, fungicides, herbicides, etc)
  - b) Formulation types
  - c) Adjuvants (what are they used for, types)
- 7) Terminology
  - a) See glossary of terms in study manual
- 8) Laws and regulations
  - a) Federal and State laws and regulations
    - i) Agency responsibilities
      - (1) FIFRA
      - (2) FFDCA
      - (3) ORS 634 & OAR 603
      - (4) WPS
      - (5) OSHA
      - (6) HCS
      - (7) ESA
    - ii) License types and requirements
    - iii) Certification periods
    - iv) Prohibited acts and civil penalties
  - b) State recordkeeping requirements
    - i) Recordkeeping elements
    - ii) Retention time
- 9) Label comprehension
  - a) The label is the law
  - b) Parts of the label including:
    - i) Restricted-use vs general-use
    - ii) Precautionary statements
    - iii) First aid
    - iv) Signal words
    - v) Active and other ingredients
    - vi) Directions for use
    - vii) Storage and disposal