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. This exam has 100 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
FOREST CATEGORY

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
      ii) Processes for degradation

2) Calibration, calculations and equipment
   a) Equipment used in forest applications
      i) Helicopters
      ii) Fixed wing aircraft
      iii) Ground sprayers
      iv) Basal bark applications
      v) Hack and squirt applications
      vi) Thinline and streamline applications
      vii) Backpack sprayers

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
   a) Forest weeds
      i) Broadleaf, woody and grass
      ii) Annuals, perennials, biennials
      iii) What chemicals are effective on what weeds
   b) Insect pests
      i) Metamorphosis
      ii) Insect orders
      iii) Selected forest insects
         (1) Insects of the forest/urban interface
         (2) Important forest insects
            (a) Bark beetles
            (b) Defoliators
         (3) Cone and seed insects
c) Diseases
   i) Abiotic vs biotic
   ii) Factors of disease development (disease triangle)
   iii) Disease control
   iv) Diagnosing diseases
   v) Chemical control
   vi) Identify symptoms and management for specific diseases listed in study manual

d) Vertebrate pests
   i) Pocket gophers
   ii) Mountain beaver
   iii) Deer and elk

5) Safety and handling
   a) Pesticide transportation, storage and disposal
   b) Protective clothing and equipment
      i) General clothing requirements
      ii) Respirator types and uses
      iii) Decontamination and cleanup
   c) First aid
      i) Signs and symptoms
      ii) First aid and the label
      iii) What to do in an emergency

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) Oregon Forest Practices Act
         (2) FIFRA
         (3) FFDCA
         (4) ORS 634 & OAR 603
         (5) WPS
         (6) OSHA
         (7) HCS
         (8) ESA
      ii) License types and requirements
      iii) Certification periods
      iv) Prohibited acts and civil penalties
   b) State recordkeeping requirements
      i) ORS 634
         (1) Recordkeeping elements
         (2) Retention time
      ii) Forest practices act
(1) Recordkeeping elements

(2) 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
      viii) Be able to answer word problems and calculations based on a sample label