

Pesticide Core Exam Outline

I. Product Label

A. Application and Use

1. Calculate the correct amount/figure for each of the following:
 - a. carrier
 - b. product
 - c. size of treatment area
2. Calibrate equipment to achieve desired flow rate
3. Determine the correct pesticide for the application, given the following factors:
 - a. application equipment
 - b. formulation
 - c. site
 - d. type of pest
4. Consider the use of alternative treatments to control pests
5. Read each pesticide label to understand/recognize:
 - a. application instructions
 - b. EPA registration number
 - c. rates of application
 - d. restricted or general use
 - e. target site
 - f. ingredient statement
6. Confirm pest identification and know why the life cycles of pests are important

Number of test items in Category IA = 15

B. Precautionary Statements

1. Read each pesticide label to understand:
 - a. precautionary statements
 - b. signal words, LD50
2. Recognize the potentially adverse effects of pesticides to the applicator and the environment
3. Determine safety requirements from Material Safety Data Sheets (MSDS) and labels
4. Reach each pesticide label to understand: first aid procedures and safety equipment

Number of test items in Category IB = 10

II. Safety Precautions

A. Personal

1. Ensure that health and safety hazards are considered before application
2. Practice appropriate product safety procedures (e.g. apron boots, gloves, shirt, pants, etc.)
3. Wash hands and face after pesticide treatment and wash personal protective equipment (PPE) separately

B. Environmental

1. Determine the environmental constraints/concerns of the area prior to treatment
2. Locate sensitive properties and individuals adjacent to target spray areas

- C. Professional training
 - 1. Consult a pesticide-manufacturing representative for advice on chemical usage
 - 2. Review new product and technology literature

Number of test items in content category II = 9

III. Application Procedures

- A. Application Decision
 - 1. Apply pesticides with consideration of:
 - a. degree of infestation
 - b. economic implications of infestation
 - c. pest's life cycle
 - d. manufacturer's recommendations
 - 2. Monitor weather conditions prior to and during application

Number of test items in category IIIA = 4

- B. Equipment
 - 1. Maintain application equipment and monitor its performance

Number of test items in category IIIB = 2

- C. Supervision
 - 1. Supervise other applicators:
 - a. communicate with applicators during applications
 - b. demonstrate safety procedures
 - c. site specific guidance
 - 2. Explain emergency procedures

Number of test items in category IIIC = 9

- D. Product Selection
 - 1. Identify physical properties of common formulations:
 - a. dusts
 - b. granules
 - c. pellets
 - d. wettable powders
 - e. dry flowables
 - f. soluble powders
 - g. liquid flowables
 - h. micro-encapsulates
 - i. emulsifiable concentrates
 - j. solutions
 - k. aerosols
 - l. fumigants

Number of test items in category IIID = 9

IV. Handling Pesticides

- A. Supervision and knowledge of pesticides
 - 1. Application procedure
 - 2. Disposal of excess material
 - 3. Handling/recycling of empty containers
- B. Maintain handling and mix/load storage facilities
 - 1. Consideration of water supplies
 - 2. Inventory maintenance
 - 3. Notification of emergency response authorities
 - 4. Protection of eating areas
 - 5. Security
 - 6. Segregation of pesticides
 - 7. Signage
 - 8. Spill procedures
 - 9. Ventilation
- C. Transport equipment and products to and from application site using proper procedures

Number of test items in category IV = 18

V. Laws and Regulations

- A. Determine which pesticide laws and regulations apply
 - 1. DOT regulations
 - 2. FIFRA
 - 3. Indiana Use and Application Law
 - 4. OSHA
 - 5. SARA-Title III
- B. Comply with, and understand Indiana Pesticide Laws and Regulations such as:
 - 1. Procedures to obtain and renew a pesticide license
 - 2. Restrictions regarding restricted use vs. general use pesticides
 - 3. Law violations that may be committed
- C. Comply with and understand the rules adopted by the Indiana Pesticide Review Board and Office of Indiana State Chemist:
 - 1. Supervision of noncertified people
 - 2. Recordkeeping requirements for RUPs
 - 3. Bulk pesticide primary and secondary containment rules
 - 4. Applicability of any posting rules

Number of test items in category V = 14

Total items on the exam = 90