Industrial & Institutional Pest Management

Test Plan Development

I. Pest Identification, Biology and Ecology

a) Ants
   i. Pharaoh ant
   ii. Odorous house ant
   iii. Southern fire ant
   iv. Carpenter ant
   v. Rover ant
   vi. Harvester ant

b) Cockroaches
   i. German
   ii. American
   iii. Brown-banded
   iv. Oriental
   v. Turkestan

c) Flies
   i. House fly
   ii. Flesh fly
   iii. Blue-bottle/green bottle fly
   iv. Moth fly
   v. Fruit fly/vinegar fly
   vi. Fungus gnat
   vii. Crane fly
   viii. Black fly
   ix. Phorid fly (humpbacked fly)
   x. Biting Midges
   xi. Non-biting Midges

d) Stored product pests/pantry pests/fabric pests
   i. Bean weevil (Bruchids)
   ii. Cigarette beetle
   iii. Saw-toothed grain beetle
   iv. Yellow meal worm
   v. Carpet beetle
   vi. Indian Meal Moths
   vii. Drugstore Beetles
   viii. Flour Beetles

e) Pests of Public Health concern
   i. Bed bugs
ii. Head lice
iii. Mosquitoes
iv. Ticks
v. Kissing bugs
vi. Fleas

f) Spiders
   i. Dangerous
      1) Widow
      2) Recluse
   ii. Non-dangerous
      1) Pygmy
      2) Cellar
      3) Tarantula
      4) Wolf Spider
      5) Orb Spinners

g) Scorpions & Scorpion Like
   i. Bark scorpion
   ii. Giant hairy scorpion
   iii. Stripetail scorpion
   iv. Tailless whip scorpion (harmless)
   v. Solpugid

h) Wasps/Bees
   i. Tarantula hawk
   ii. Yellow-jacket-2 + 1 invasive
   iii. Paper wasps
   iv. Honey Bees
   v. Velvet ant
   vi. Leaf Cutter
   vii. Carpenter

i) Occasional invaders
   i. Stink bugs
   ii. Mealy bugs
   iii. False chinch bugs
   iv. Noctuids
   v. Box elder
   vi. Centipedes
   vii. Millipedes
   viii. Milkweed
   ix. Sphinx Moths
   x. Pill Bugs
   xi. Crickets – field, camel, Indian house, etc
   xii. Springtails
j) Vertebrates
i. Mice
ii. Pack rat/Wood Rat
iii. Gophers
iv. Squirrels
v. Birds – pigeons
vi. Roof Rats

II. Comprehend and Apply Label & Labeling Directions
a) Drift and Run Off
b) Rodenticides
c) Sensitive Environments (i.e. Schools, Health Care and Child Care Facilities, & Food Handling Establishments)

III. Planning & Implementing a Management Strategy
a) Awareness of Target Species
b) Secondary Poisoning
c) Endangered Species
d) Non-Target Species
e) Selection of the Appropriate Pesticide
g) Selection of Appropriate Device/Equipment
h) Record making

IV. Strategies and Application Techniques
a) IPM Strategies
b) Equipment
i. Types
ii. Uses
iii. Calibration
iv. Maintenance
c) Calculations
i. Area
ii. Volume
iii. Dosage

Resources – Arizona Revised Statute Title 3 Chapter 20; Arizona Administrative Code Title 3; National Pesticide Applicator Certification Core Manual; Truman’s Scientific Guide to Pest Management Operations – 7th Edition; and Handbook on Pests of Community Environments in the Desert Southwest United States