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Industrial Education Safety (IES) 1068 Pesticide Application Safety Training (.25 Unit)  
[formerly Industrial Education Safety 90A]

Prerequisite: None

Total Hours: 4 hours lecture; 4 hours lab (8 hours total)

Catalog Description: Provides a fundamental understanding of roles, responsibilities and accountabilities when handling and applying pesticides and other agricultural hazardous materials. This course is offered on a Pass/No Pass basis with the option to receive a letter grade.

Type of Class/Course: Degree Credit

Textbook: *Pesticide Application Safety Training*

Additional Required Materials: None

Course Objectives:

By the end of the course, a successful student will be able to

1. identify basic components of a pesticide label,
2. read and apply the elements of a pesticide Material Safety Data Sheet (MSDS),
3. identify potential hazards associated with pesticides,
4. select the preferred application method for the most common pesticides with which the student will work,
5. select the appropriate personal protective equipment for specific pesticides being used, and
6. work with the principles of pesticide release clean-up.

Course Scope and Content:

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| Unit I   | Objectives, Definitions, Chemical Family Description   |
|          | A. Fulfilling California training requirements   |
|          | B. <i>Restricted Use Pesticides</i> defined  |
|          | C. General pesticide characteristics and hazards   |
| Unit II  | Federal Worker Protection Standard Training Requirements for Applicator, Handlers, and Workers |
|          | A. Federal Insecticide, Fungicide, Rodenticide Act (FIFRA)                                     |
|          | B. Requirements in California  |
|          | C. Differences of training requirements for applicators, handlers, and workers                 |
| Unit III | Labels and MSDS Pesticide Hazards  |
|          | A. Required pesticide label contents   |
|          | B. MSDS for pesticides   |

- Unit IV           Emergency First Aid and Medical Treatment
- A.     Heat stress
  - B.     Personal protective equipment
  - C.     Safety requirements for handling, transporting, storing, disposing, and routine and emergency clean-up and decontamination

- Unit V           Pesticide Application
- A.     Field warning posting and Reentry Interval requirements
  - B.     Conditions that cause pesticide *drift*

Lab Content:

- 1.     Practical hands-on exercises interpreting specific MSDS
- 2.     Practical hands-on exercises interpreting specific pesticide labels
- 3.     Calculation of Re-entry periods using equipment

Learning Activities Required Outside of Class: None

Methods of Instruction:

- 1.     Lecture
- 2.     Classroom workshops
- 3.     Lab activities

Methods of Evaluation:

- 1.     Written final exam