

# Missouri Guidelines for Noncertified RUP Applicator Training Programs

effective 1/1/25

---

## I. STATE APPROVAL

Sections 281.048 and 281.100 of the Missouri Pesticide Use Act, Section 2 CSR 70-25.153 of the corresponding regulations, and 40 CFR Part 171.201(c)(1) and (3) authorize the Missouri Department of Agriculture's Bureau of Pesticide Control to establish minimum criteria for training Noncertified Restricted Use Pesticide (NRUP) Applicators.

Each training program must be approved in advance by the Bureau of Pesticide Control. No program will be given post approval. Training received by individuals attending programs prior to approval will **NOT** be accepted.

Programs will be reviewed in the order received. For a program to be considered for NRUP training credit in Missouri, it must comply with the following:

1. The training must be presented to applicants and noncertified RUP applicators either orally from written materials or audiovisually. The information must be presented live, whether in-person or virtual, in a manner that the applicants and noncertified RUP applicators can understand.
2. Individuals conducting training must be certified applicators of restricted use pesticides or designated by the department as educators with an institution of higher education or a professional association. The individuals conducting training must also be present during the entire training program and must respond to the noncertified applicators' questions.
3. The program outline must be received by the Bureau of Pesticide Control at least 45 days (90 preferred) in advance of the proposed program. The program outline must include:
  - A. Contact name, email address, and phone number of the program sponsor.
  - B. Program curriculum with a detailed description of each topic.
  - C. Times allotted for each topic.
  - D. List of proposed speakers and qualifications.
  - E. Applicator participation method.
  - F. Attendance verification procedure.

Failure to supply the required information will be grounds for rejection. Copies of the training materials (audio, visual, and printed) should be available for Bureau review upon request. The Bureau will attempt to work with any group to improve programs which do not meet these guidelines. It is the program sponsor's responsibility to acquire the needed materials and/or speakers for the program. Approved training programs shall be valid until revoked.

Bureau of Pesticide Control personnel may monitor any NRUP training program. All fees charged for the program shall be waived for Bureau of Pesticide Control personnel monitoring the program. Bureau personnel shall be provided copies of all materials distributed to the program attendees.

The program sponsor shall verify each individual's attendance by completing a NRUP Applicator Notice of Training Form and providing it to the attendee.

## II. CURRICULUM

The following topics are considered to be a **MINIMUM** needed for approval of a program for NRUP training in Missouri and must be discussed in all training programs.

These topics are based on requirements found in 40 CFR 171.201. This material must be easily recognizable in both the written agenda and the actual program.

### **III. REQUIRED TOPICS**

The information provided should be directed toward reviewing basic information in each topic.

#### **1. PESTICIDE LABEL AND LABELING – (Suggested time – 30 minutes)**

This discussion must include:

- A. Format and meaning of information contained on pesticide labels and in labeling applicable to the safe use of the pesticide, including the location and meaning of the restricted use product statement, how to identify when the labeling requires the certified applicator to be physically present during the use of the pesticide, and information on personal protective equipment.

#### **2. PESTICIDE HAZARDS AND SAFETY – (Suggested time – 2hours and 30 minutes)**

This discussion must include:

- A. Potential hazards from toxicity and exposure that pesticides present to noncertified RUP applicators and their families, including acute and chronic effects, delayed effects, and sensitization;
- B. Routes through which pesticides can enter the body;
- C. Signs and symptoms of common types of pesticide poisoning;
- D. Emergency first aid for pesticide injuries or poisonings;
- E. Routine and emergency decontamination procedures, including emergency eye flushing techniques. Noncertified RUP applicators must be instructed that if pesticides are spilled or sprayed on the body, to immediately wash or to rinse off in the nearest clean water. Noncertified RUP applicators must also be instructed to wash or shower with soap and water, shampoo hair, and change into clean clothes as soon as possible;
- F. How and when to obtain emergency medical care;
- G. After working with pesticides, wash hands before eating, drinking, using chewing gum or tobacco, or using the toilet;
- H. Wash or shower with soap and water, shampoo hair and change into clean clothes as soon as possible after working with pesticides;
- I. Potential hazards from pesticide residues on clothing;
- J. Wash work clothes before wearing them again and wash them separately from other clothes;
- K. Do not take pesticides or pesticide containers used at work to your home;
- L. Potential hazards to children and pregnant women from pesticide exposure;
- M. After working with pesticides, remove work boots or shoes before entering your home, and remove work clothes and wash or shower before physical contact with children or family members;
- N. Need for, and appropriate use and removal of, personal protective equipment;
- O. How to recognize, prevent, and provide first aid treatment for heat-related illness.

#### **3. PESTICIDE ENVIRONMENTAL CONCERNS – (Suggested time – 30 minutes)**

This discussion must include:

- A. Safety requirements for handling, transporting, storing, and disposing of pesticides, including general procedures for spill cleanup;
- B. Environmental concerns such as drift, runoff, and wildlife hazards.

#### **4. PESTICIDE LAWS – (Suggested time – 30 minutes)**

This discussion must include:

- A. How to report suspected pesticide use violations to the appropriate state or tribal agency responsible for pesticide enforcement;
- B. Restricted use pesticides may be used only by a certified applicator or by a noncertified RUP applicator working under the direct supervision of a certified commercial applicator, certified noncommercial applicator, or certified public operator;
- C. The certified applicator's responsibility to provide each noncertified RUP applicator instructions specific to the site and pesticide used. These instructions must include labeling directions, precautions, and requirements applicable to the specific use and site, and how the characteristics of the use site (e.g., surface and ground water, endangered species, local population, and risks) and the conditions of application (e.g., equipment, method of application, formulation, and risks) might increase or decrease the risk of adverse effects. The certified applicator must provide these instructions in a manner the noncertified RUP applicator can understand;
- D. The certified applicator's responsibility to ensure that each noncertified RUP applicator has access to the applicable product labeling at all times during its use;
- E. The certified applicator's responsibility to ensure that when the labeling of a pesticide product requires that personal protective equipment be worn for mixing, loading, application, or any other use activities, each noncertified RUP applicator has clean, labeling-required personal protective equipment in proper operating condition and that the personal protective equipment is worn and used correctly for its intended purpose;
- F. The certified applicator's responsibility to ensure that before each day of use, equipment used for mixing, loading, transferring, or applying pesticides is in proper operating condition as intended by the manufacturer, and can be used without risk of reasonably foreseeable adverse effects to the noncertified RUP applicator, other persons, or the environment;
- G. The certified applicator's responsibility to ensure that a means to immediately communicate with the certified applicator is available to each noncertified RUP applicator using restricted use pesticides under the certified applicator's direct supervision.

#### **IV. APPLICATOR PARTICIPATION**

A major consideration in any training program is the retention of the material presented. One method of increasing the learning potential of the attendee is the incorporation of some type of active participation. The following are suggested methods of increasing retention:

1. A no fail test that would be discussed by the training staff;
2. Discussion of several review questions at the end of each training segment;
3. A workbook that is completed during training, then kept by the applicator at the end of the training.

Other participation methods will also be considered based on their ability to increase applicator retention.

For further information contact the **Pesticide Program** ([agriculture.mo.gov/plant/pesticides/](http://agriculture.mo.gov/plant/pesticides/)).