

Private Pesticide Applicator Initial Training

April 26, 2022

Great Falls College MSU | Heritage Hall | 2100 16th Ave S. | Great Falls, MT

Applicators do not need to order training materials which include the core manual and addendum, but it is highly recommended for new applicators to order a set for reference. New applicators will need to fill out a new applicator permit with \$48 fee (if within district 3) and mail to Montana Department of Agriculture.

Registration due to the MSU Cascade County Extension office by April 15 at (406) 454-6980.

- 8:30 a.m. Registration**
- 9:00 a.m. Montana Private Applicator License (30 minutes)**
Makayla Paul, Rose Malisani, MSU Cascade County Extension
Pesticide definition, classifications, importance of the pesticide license number, recertifying, pesticide fees, rules, and restrictions.
- 9:30 a.m. Reading the Pesticide Product Label (30 minutes)**
Makayla Paul, MSU Meagher County Extension
How and when to utilize the pesticide product label, active versus inert ingredients, signal words, restricted entry intervals (REI), pesticide product rate (going above or below product rate), pesticide storage, disposal, and importance of crop/site locations.
- 10:00 a.m. Break**
- 10:15 a.m. Calibration of Backpack, Boom, and Broadjet Sprayers (90 minutes)**
Cecil Tharp, MSU Extension Pesticide Education Specialist
Determine output of sprayers (GPA), determine nozzle output, how to read a nozzle specification sheet, understanding the effects of speed and pressure, how many acres can you spray with a given volume, how much pesticide product do you add to the tank, how much pesticide solution do you add to the tank, useful conversions (pints to ounces, gallons to ounces, etc.), using calibration formulations to help you keep pesticide records, and calibration exercises.
- 11:45 a.m. Roast Beef Lunch**
- 12:10 p.m. Integrated Pest Management (60 minutes)**
Jesse Fulbright, MSU Liberty County Extension
Integrated pest management definition, benefits of integrated pest management, economics thresholds, economic injury levels, monitoring techniques, pest identification, control methods (chemical, cultural, biocontrol, transgenic, and mechanical), resistance, and resistance management.
- 1:10 p.m. Pesticide Laws (60 minutes)**
Michaela Hystad, Montana Department of Agriculture
Worker Protection Standards (WPS), FIFRA (Federal Insecticide, Fungicide, and Rodenticide Act, Montana Pesticides Act, Montana laws/regulations, Montana Pollutant Discharge Elimination System (MPDES), federal recordkeeping requirements (key elements you need to record and how to use calibration formulas to help you keep accurate records.)
- 2:10 p.m. Break**
- 2:30 p.m. Pesticides in the Environment (60 minutes)**
Adriane Good, MSU Pondera County Extension
Pesticide properties regarding environmental contamination, solubility, adsorption, drift, valorization, leaching, runoff, water contamination, degradation, pesticide behavior in soil, and how nozzles/pressure contribute to drift.
- 3:30 p.m. Pesticide Safety (90 minutes)**
Colleen Pegar, MSU Hill County Extension
Toxicity definition (acute versus chronic), four routes of exposure, pesticide formulations, applicator safety (liquid versus dry formulations), LD₅₀, signal words, how humans process toxic substances, personal protective equipment (PPE), laundering pesticide contaminated clothing, proper pesticide storage, procedures in event of poisoning, and sprayer/equipment cleaning.
- 5:00 p.m. Applicator Certification Review and Exam; Rose Malisani, MSU Cascade County Extension**
- 5:30 p.m. Adjournment**