

Private Pesticide Applicator Initial Training

May 15, 2023

Montana ExpoPark's Family Living Center, 400 3rd St NW, Great Falls, MT 59404

New applicators are required to have training materials which include the core manual and addendum.

Registration is due to the MSU Extension-Cascade County office by May 12 call (406) 454-6980 for a registration form.

- 8:30 a.m. Registration**
- 9:00 a.m. Montana Private Applicator License (30 minutes)**
Makayla Paul, MSU Extension-Meagher County
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 Extension-Meagher County
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. Pesticide Safety (90 minutes)**
Colleen Pegar, MSU Extension-Hill County
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.
- 11:30 a.m. Roast Beef Lunch**
- 12:00 p.m. Pesticides in the Environment (60 minutes)**
Jesse Fulbright, MSU Extension-Liberty County
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.
- 1:00 p.m. Integrated Pest Management (60 minutes)**
Kari Lewis, MSU Extension-Glacier County
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.
- 2:00 p.m. Break**
- 2:15 p.m. Pesticide Laws (60 minutes)**
Jake Degenstein, 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.)
- 3:15 p.m. Calibration of Backpack, Boom, and Broadjet Sprayers (90 minutes)**
Rose Malisani, MSU Extension-Cascade County
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.
- 4:45 p.m. Applicator Certification Review and Exam; Rose Malisani, MSU Cascade County Extension**
- 5:15 p.m. Adjournment**