Drone School: Advanced Unpiloted Aerial Vehicle Systems (UAVS) For the Commercial Horticulture Industry

February 26 and 27, 2025

A grant supported Advanced Drone School will be offered by University of Maryland Extension. This education opportunity is designed to advance the knowledge of new FAA Part 107 Remote Aerial Pilots, and those that have taken the Beginners Drone School program. This program will highlight advanced drone use in the commercial horticulture including ornamental, fruit and vegetable production, specifically with applied mapping, imagery processing, and use of agrochemical application along with the specific information on FAA Part 107 exemptions and FAA Part 137 certification. This program will dive into different software related to drone data collection and data processing. This program will also cover drone maintenance, battery care, and will offer attendees opportunities to fly several types of drones.

Location: 4240 Folly Quarter Rd, Building 671, Ellicott City, MD 21042

Program Coordinators and Presenters: David Clement, Hemendra Kumar, Andrew Ristvey, Suzanne Klick, University of Maryland Extension, and Kirk Floyd, KDrone Services.

DAY 1:

8:30 a.m. – Registration Check-in

9:00 a.m. – 10:30 Fundamentals of drone operations

A. Drone systems and controls

B. Pre-flight checks and check list

C. Calibration

D. Drone Safety

E. Remote ID

F. Drone software and apps

10:30 – 10:45 BREAK

10:45 – 12:00 Mapping With Drones and Available Analytic Software

A. The importance of mapping in crop production systems

B. Flight software

C. Processing software

D. Pre-flight planning

E. Drones for mapping

F. On-site prep and planning

12:00 – 1:00 LUNCH

1:00 – 3:00 p.m. Hands-on flight training and mapping

A. Preflight checks and prep

B. Take off location.

C. On site planning.

D. Pre-take-off checks

E. Mapping Demo

F. Hands-on training for mapping

3:00 PM Hands-on Drone Flying

DAY 2:

9:00 a.m. – 10:00 Using Drones for Your Business

A. Licensing

B. How drones can work for your business

10:00 – 10:40 Reviewing Data and processing

A. Checking and uploading the data

B. Reviewing Data

10:40 – 10:50 BREAK

10:50 – 11:15 Reviewing Data and Data processing

A. Post mapping analysis

B. Products for clients

11:15 – 12:15 The Expense of Using Drones

A. What equipment you will need?

B. Cost of equipment

C. Cost of insurance

D. Battery care and maintenance

12:15 – 1:00 Lunch

1:00 – 2:00 p.m.

Tree Inspection with FPV drone

2:00 – 3:00 p.m.

Commercial sprayer drone demo

Q&A

3:00 p.m. Flight Time With Various Drones.

REGISTRATION INFORMATION
February 26 and 27, 2025 Drone Program

Space is limited to no more than 20 people and is on a first come first served basis.

To register with a credit card, go to: https://25Febdrones.eventbrite.com

No walk-ins on the day of the conference.

Some funding support for this program is provided through an NTAE grant.

Cost: $100 per person for the program. No individual day sign-up.

No refunds after February 21, 2025.

PAYING BY CHECK? Use This Form

Please make checks payable to: "University of Maryland"
Send to: February 2025 Drone Program, 4240 Folly Quarter Rd, Ellicott City, MD 21042

Name(s): _____

Company:_____

Address:_____

City:_____ State:_____ Zip Code: _____

Phone:_____

Email:_____

Payment Amount: _____