UAS Training
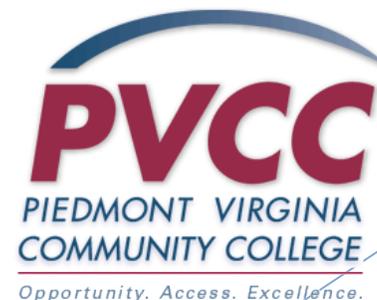
Public Safety and Emergency Services Integration of UAS Technology

Team

- David King- Volunteer- Albemarle County Sheriff's Office

- Charles Werner- Senior Advisor- Virginia Department of Emergency Management

- Darren Goodbar- Director of Aerial Services- Draper Aden Associates

- Valerie Palamountain- Dean- Piedmont Virginia Community College Workforce

- Pat O'Rourke- Program Manager- Piedmont Virginia Community College Workforce

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Additional Resources

- Mid-Atlantic Aviation Partnership
- Virginia Unmanned Systems Commission
- Virginia Department of Emergency Services
- National Association of Search and Rescue
- ASTM International

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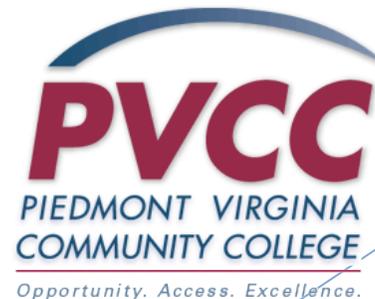# Problem

▶ Information sought by individual agencies unavailable from current state or federal sources

▶ Agencies often rely on information and training from vendor, manufacturer or self identified experts

▶ Operational implementation is tested and determined by each agency, individually

▶ Unmanned systems integration process is not identified at the state or local level

Solution

- Centralize instruction
- Standardize training
- Facilitate path to implementation
- Focused curriculum, vendor neutral

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Execution

Conduct classroom instruction

Day 1   FAA Flight Ground School

Day 2   Introduction to sUAS and Technology
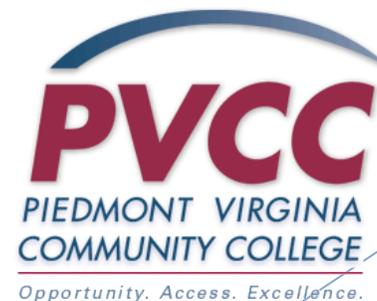
Day 3   Indoor Flight Training

Concept of Delivery

1. PVCC establishes class schedule, fees, and materials for instruction.

2. Agency attends class.

3. Attending agency COA creates and submits COA to authorize sUAS integration.

4. Agency conducts aircraft, scenario and procedural research and testing.

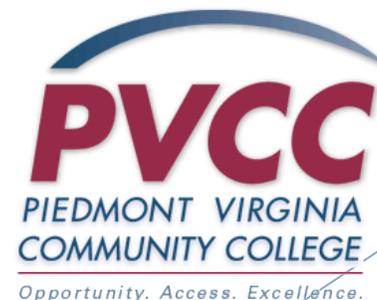5. Operational COA approved by the FAA.

Results

- ▶ Standardized use of sUAS in Virginia- Interoperability

- ▶ Robust training curriculum- Accuracy

- ▶ Timely adaption of sUAS and technology- Efficient

- ▶ Repeatable and scalable- Effective

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Timeline

- November 2015- ACSO, PVCC, et. al. agreed on roles and responsibilities

- December 2015- Curriculum review – first draft.

- January 2016- Curriculum review – final draft.

- February 2016- Submited Section 333 and COA application.

- February 2016- Presentations on the curriculum at the annual Fire and Rescue Convention, Virginia Beach, February 24th-28th

- May 2016- First scheduled class May 9th-11th

- Ongoing- Review and adjust to regulatory and technology changes, user experiences and operational lessons learned

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Goal

▶ Create and standardize sUAS specific ground school education and training for public COA users with support from representatives of the FAA and MAAP.

▶ Establish requirements for operators, commercial and agency, during incident response, and facilitate training, ensuring competency, effectiveness and safety.

▶ Provide feedback to agency participants and state officials on technology, best practices and lessons learned through aeronautical research.

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Questions?

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