

MVCAC 2026 Drone Workshop Outline

Duration: 3 – 4 hours

Format: Short presentations + interactive discussions + outdoor demonstrations

1. Welcome & Objectives (10 min)

- Brief overview of the session's focus on optimization, troubleshooting, and advanced applications
- Safety briefing and logistics for outdoor flight sessions

2. Indoor Discussion & Problem-Solving (45 – 60 min)

A. Regulatory & Compliance Updates (25 min)

- Recent changes in FAA, DPR, state, or local drone regulations
- COA, Part 107 and Part 137 + 91
 - Exemption- and permit-based operations, FAA Gen 3
- Best practices for compliance documentation
- Update on AMCA exemptions

B. Drone Operation: Interactive Group Discussion & Problem-Solving (20-30 min)

- Topics may include: flight planning and mission design (polygons to launch), common crash risks and mitigations, battery management, manual vs. autonomous control, field troubleshooting, and AI on the horizon
- Group brainstorming on solutions and best practices

**** Lunch Break with Drone Demonstrations ****

3. Outdoor Drone Demonstrations: Application and Mapping (60-90 min)

A. Efficient Pre-Flight Setup & Checklist (15 min)

- Optimizing launch prep for faster deployment
- Real-world troubleshooting scenarios

B. Flight Demonstrations & Comparison with Vendors (45 – 60 min)

- Side-by-side comparison of different drones and payload setups
- Real-time data collection: mapping vs. spraying vs. granular dispersal
- Open Q&A with field experts

4. Wrap-Up & Next Steps (5 - 10 min)

- Summary of key takeaways
- Networking and resource sharing