

Course Syllabus

Classification Level

Unclassified

Program of Instruction (POI)

UAS Calculations for Modern Aerial Dissemination / Version 1.0

Prerequisites

- Basic understanding of PSYOP operations
- Familiarity with military terminology
- Basic mathematical computation skills
- Ability to interpret technical data
- Understanding of military documentation standards

Instruction Hours

- Total Instructional Time: 7.0 hours (420 minutes)
- Daily Schedule: 09:00-17:00 with breaks

Course Days

1 Day Workshop

Course Description

- **Description:** This one-day workshop updates traditional PSYOP aerial dissemination by incorporating sUAS delivery platforms as aerial dissemination methods. The workshop covers essential calculations, formulas, and planning methods required for operations in the information environment (OIE) planners to effectively employ sUAS platforms for leaflet dissemination. Participants will progress through stages—from memorizing key bilingual terms, in thier target language,to platform selection, applying calculation methods, and finally integrating these into a comprehensive flight plan with MISO product development considerations.
- **Target Audience:** PSYOP planners and operators involved in aerial dissemination operations, particularly those transitioning to or incorporating sUAS platforms in their operations.

Effective Date

20240410-V1

Instructor Information

- **Point of Contact:** [First Last], [email@example.com]
 - **Office Hours:** [Specify days and times when the instructor is available for consultations.]
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Course Objectives

1. **Foundational Knowledge**
 - Memorize and apply key terms for SUAS aerial dissemination in English and Spanish

- Identify and explain doctrinal constants (descent rates, spread factors, standard speeds)
 - Understand the relationship between key constants and operational significance
 - 2. **Platform Selection & Analysis**
 - Evaluate sUAS platform capabilities and limitations
 - Analyze operational constraints and security considerations
 - Select appropriate platforms based on mission requirements
 - 3. **Calculation Competencies**
 - Apply basic calculation methods for descent time and drift parameters
 - Calculate compound drift metrics and dispersion patterns
 - Determine leaflet density metrics for operational effectiveness
 - 4. **Operational Planning**
 - Develop comprehensive flight plans incorporating technical parameters
 - Determine optimal release points based on calculated drift
 - Create mission profiles that account for all operational variables
 - 5. **MISO Integration**
 - Evaluate MISO products for SUAS delivery suitability
 - Adapt product design to account for technical constraints
 - Optimize psychological impact while maintaining technical feasibility
 - 6. **Practical Application**
 - Apply calculation methods to complex operational scenarios
 - Develop complete dissemination plans for realistic missions
 - Demonstrate proficiency in all aspects of SUAS leaflet dissemination
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Course Outline

Day 1

- **Hour 0 (09:00-09:50):** Introduction & Key Terms
 - **Hour 1 (10:00-10:50):** sUAS Platform Selection
 - **Hour 2 (11:00-11:50):** Basic Calculation Methods
 - **Hour 3 (12:00-13:00):** Lunch Break
 - **Hour 4 (13:00-13:50):** Advanced Calculations & Analysis
 - **Hour 5 (14:00-14:50):** Flight Plan Development
 - **Hour 6 (15:00-15:50):** MISO Product Integration
 - **Hour 7 (16:00-17:00):** Practical Application & Review
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Course Materials

- **Required Texts:**
 - sUAS Leaflet Drop doctrine (Tables D-1 through D-5)
 - sUAS Technical Manuals
 - PSYOP Planning Guidelines
- **Recommended Readings:**
 - MISO Product Development Standards
 - Environmental Effects on Aerial Dissemination
 - Risk Assessment Guidelines
- **Other Materials:**
 - Calculator
 - Plotting tools
 - Maps and operational templates
 - SUAS platform specifications
 - MISO product templates

Grading and Evaluation

- **Knowledge Checks:** 20% (90% accuracy required)
 - **Calculation Exercises:** 30% (85% accuracy required)
 - **Practical Applications:** 30% (80% accuracy required)
 - **Mission Planning:** 20% (Complete and accurate incorporation of all critical parameters)
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Policies

Attendance Policy

- Full attendance is required for all sessions
- No more than 10 minutes of absence per session allowed
- Make-up work not possible due to time constraints

Academic Integrity

- Collaboration is encouraged but individual learning is the training goal

Late Work

N/A

Schedule and Important Dates

- **Course Start Date:** TBD
 - **Course End Date:** TBD
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Additional Information

- Course includes hands-on practical exercises
 - Team-based problem solving activities
 - Real-world scenario applications
 - Bilingual terminology focus (English/Spanish)
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Contact Information

For any questions or additional information, please contact: - **Training Facilitator Name:** [Instructor Name] - **Email:** [email@example.com] - **Phone:** [Phone number] - **Office Location:** [Office location]