



Skill 1-1: Produce Mission Plan

Candidate #: _____

INSTRUCTIONS TO THE CANDIDATE

The candidate, given the appropriate data, shall develop, review, understand, communicate and support a Mission Plan.

Skill I UAS – NFPA 2400, 5.3.1.1, 2019 Edition	1 st	2 nd
1. Develop a written or electronic scenario-based Mission Plan.		
2. Obtain landowner permission.		
3. Verify Airspace: File LAANC, or SGI waiver.		
4. Check for TFR (temporary flight restriction) that may be in place.		
5. Aircraft Registration number.		
6. Confirm valid aircraft registration number.		
7. Establish mission altitude.		
8. Establish Communications Plan. (air to ground/air to air).		
9. Coordinate planned flight time.		
10. Analyze weather report; continually monitor weather conditions.		
11. Monitor battery status and confirm autonomous actions for low battery warning.		
12. Review contingency procedures: other aircraft encroachment, emergency divert, etc.		
13. Locate and identify alternative landing zones.		
14. Identify and evaluate hazards unique to mission or operational period.		
15. IC/RPIC has reviewed and endorsed the mission plan.		
16. Review and discuss mission plan, communicate with flight crew(s) and inform command		
17. Document emergency Contact numbers i.e., Dispatch, Police, FAA.		
18. Document special Government Interest contact number and provide application.		
19. Assign Flight Crew (ICS form 220) RPIC, Visual Observer, Payload Operator, etc.		
20. Document digital media chain of custody and disposition.		
21. Complete mission report, sign, and date.		
YELLOW BOLD indicate a CRITICAL step and any unsafe act constitutes a failure of skill.		

Points needed: 16/21		
Performed Safely	Y/N	Y/N

Test Date: _____

Location: _____

Pass: _____ Fail: _____

Retest: Pass: _____ Fail: _____

Evaluator: _____
Print Name

Signature

Retest Evaluator 1: _____
Print Name

Signature

Retest Evaluator 2: _____
Print Name

Signature



Skill 1-2: Aircraft Readiness

Candidate #: _____

INSTRUCTIONS TO THE CANDIDATE

The candidate, given a mission plan and UAS, shall assemble, configure, prepare and verify its operation.

Table with 3 columns: Skill 2 UAS - NFPA 2400, 5.3.1.2, 2019 Edition; 1st; 2nd. Rows 1-11 list tasks like 'Identify sUAS by name and model', 'Properly Assemble sUAS', etc.

Summary table with 3 columns: Points needed: 10/11; Performed Safely; Y/N; Y/N.

Evaluator comments:

Multiple horizontal lines for evaluator comments, ending with '(cont. on back page)'

Test Date: _____

Location: _____

Pass: _____ Fail: _____

Retest Pass: _____ Fail: _____

Evaluator: _____ Print Name

_____ Signature

Retest Evaluator 1: _____ Print Name

_____ Signature

Retest Evaluator 2: _____ Print Name

_____ Signature



Skill 1-3: sUAS Flight Demonstration

Candidate #: _____

INSTRUCTIONS TO THE CANDIDATE

The candidate, given an sUAS and flight plan, shall take off, operate sUAS and maintain control during takeoff, during flight, maintain visual line of sight, activate different sUAS functions and payloads, demonstrate positive aircraft control and make data acquisitions at targeted locations in accordance with the flight plan, and land without hitting any obstacles.

Skill 3 UAS – NFPA 2400, 5.3.2.1, 5.3.2.2, 5.3.2.3, 5.3.2.4, 5.3.2.5, 5.3.2.6, 2019 Edition	1 st	2 nd
1. Perform take-off from designated Landing Zone (LZ)		
2. Maintained Visual line of Sight (VLOS)		
3. Demonstrates sUAS payload operations: Thermal Camera, Spotlight, PA		
4. Collect data at targeted locations		
5. Verify battery status: Confirm percent or remaining flight time		
6. Operates sUAS and maintains control in a safe manner during flight		
7. Execute landing in designated LZ: Autonomous or manual		
YELLOW BOLD indicate a CRITICAL step and any unsafe act constitutes a failure of skill.		
Points needed: 7/7		
Performed Safely	Y/N	Y/N

Evaluator comments:

(cont. on back page)

Test Date: _____

Location: _____

Pass: _____ Fail: _____

Retest Pass: _____ Fail: _____

Evaluator: _____
Print Name

Signature

Retest Evaluator 1: _____
Print Name

Signature

Retest Evaluator 2: _____
Print Name

Signature



Skill 1-4: Payload Delivery

Candidate #: _____

INSTRUCTIONS TO THE CANDIDATE

The candidate, given an sUAS and flight plan, shall take off, operate sUAS and maintain control during takeoff, during flight, maintain visual line of sight, activate different sUAS functions and payloads, demonstrate positive aircraft control in accordance with the flight plan, acquire and drop Payload, land without hitting any obstacles.

Skill 4 UAS – NFPA 2400, 5.3.2.1, 5.3.2.2, 5.3.2.3, 5.3.2.4, 5.3.2.5, 5.3.2.6, 2019 Edition	1 st	2 nd
1. Execute take-off from designated Landing Zone		
2. Sustain Visual Line of Sight (VLOS)		
3. Demonstrates ability to control aircraft payloads. (spotlight, camera etc.)		
4. Verify remaining battery percentage or flight time		
5. Adjust autonomous action for low battery and critical battery warning.		
6. Acquire payload and deliver to target.		
7. Land sUAS in designated Landing Zone		
YELLOW BOLD indicate a CRITICAL step and any unsafe act constitutes a failure of skill.		
Points needed: 7/7		
Performed Safely	Y/N	Y/N

Evaluator comments:

(cont. on back page)

Test Date: _____

Location: _____

Pass: _____ Fail: _____

Retest Pass: _____ Fail: _____

Evaluator: _____
Print Name

Signature

Retest Evaluator 1: _____
Print Name

Signature

Retest Evaluator 2: _____
Print Name

Signature



Skill 1-5: Activate Return-to-Home

Candidate #: _____

INSTRUCTIONS TO THE CANDIDATE

The candidate, given an sUAS and flight plan, shall take off, operate sUAS and maintain control during takeoff, during flight, maintain visual line of sight, initiate Return to Home (RTH) and land without hitting any obstacles.

Skill 5 UAS – NFPA 2400, 5.3.2.1, 5.3.2.2, 5.3.2.3, 5.3.2.5, 5.3.2.6, 2019 Edition	1 st	2 nd
1. Take-off from designated Landing Zone		
2. Assess landing zone as the return to home point for the sUAS		
3. Navigate 200 ft Vertically and fly 500 ft horizontally away from landing zone		
4. Activate Return to Home (RTH) function. (adjust for current environment)		
5. Autonomous RTH successfully brings sUAS to the Landing Zone (LZ)		
6. Autonomous or manual landing in designated Landing Zone (LZ)		
YELLOW BOLD indicate a CRITICAL step and any unsafe act constitutes a failure of skill.		
	Points needed: 6/6	
	Performed Safely	Y/N Y/N

Evaluator comments:

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Test Date: _____
Location: _____

Pass: _____ Fail: _____
Retest Pass: _____ Fail: _____

Evaluator: _____
Print Name

Signature

Retest Evaluator 1: _____
Print Name

Signature

Retest Evaluator 2: _____
Print Name

Signature



Skill 1-6: Post Flight Inspection

Candidate #: _____

INSTRUCTIONS TO THE CANDIDATE

The candidate, given sUAS, flight log and completed mission plan, shall perform post flight procedures and record keeping.

Skill 6 UAS – NFPA 2400, 5.3.3.1, 5.3.3.2, 2019 Edition	1 st	2 nd
1. Examine sUAS; Assess for damage		
2. Determine if sUAS is ready for service or tag out-of-service		
3. Prepare sUAS for storage and/or transport		
4. Conduct a mission debrief, discuss tasks, deviations, areas of success/improvement		
5. Document in a flight log		
YELLOW BOLD indicate a CRITICAL step and any unsafe act constitutes a failure of skill.		
	Points needed: 5/5	
	Performed Safely	Y/N Y/N

Evaluator comments:

(cont. on back page)

Test Date: _____
Location: _____

Pass: _____ Fail: _____
Retest Pass: _____ Fail: _____

Evaluator: _____
Print Name

Signature

Retest Evaluator 1: _____
Print Name

Signature

Retest Evaluator 2: _____
Print Name

Signature



Skill 1-7: Assess and Identify Operational Tasks for Mission Plan

Candidate #: _____

INSTRUCTIONS TO THE CANDIDATE

Acting as the Visual Observer the candidate, given mission plan, shall review understand and determine support for the plan.

Skill 7 UAS – NFPA 2400, 5.4.1.1, 2019 Edition	1 st	2 nd
1. Review mission plan		
2. Determine operational tasks necessary to support the mission plan		
3. Communicate operational tasks to RPIC and flight team for approval		
YELLOW BOLD indicate a CRITICAL step and any unsafe act constitutes a failure of skill.		
	Points needed: 3/3	
	Performed Safely	Y/N Y/N

Evaluator comments:

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Test Date: _____
Location: _____

Pass: _____ Fail: _____
Retest Pass: _____ Fail: _____

Evaluator: _____
Print Name

Retest Evaluator 1: _____
Print Name

Retest Evaluator 2: _____
Print Name

Signature

Signature

Signature



Skill 1-8: Situational Awareness

Candidate #: _____

INSTRUCTIONS TO THE CANDIDATE

Acting as the Visual Observer the candidate, given mission plan, shall provide proper communication with the RPIC during the mission.

Skill 8 UAS – NFPA 2400, 5.4.2.1, 2019 Edition	1 st	2 nd
1. Visual observer shall review a mission plan		
2. Initiate communication with RPIC		
3. Maintain Visual Line of Sight (VLOS)		
4. Maintain situational awareness, communicates potential collision information in time to allow for corrective actions. (Verbalize)		
YELLOW BOLD indicate a CRITICAL step and any unsafe act constitutes a failure of skill.		
	Points needed: 4/4	
	Performed Safely	Y/N Y/N

Evaluator comments:

(cont. on back page)

Test Date: _____

Location: _____

Pass: _____ Fail: _____

Retest Pass: _____ Fail: _____

Evaluator: _____
Print Name

Signature

Retest Evaluator 1: _____
Print Name

Signature

Retest Evaluator 2: _____
Print Name

Signature