**SkillsUSA North Carolina UAS Competition 2022**

**Agenda for Students and Teachers**

**Wednesday April 27, 2022**

**1:00 pm – 1:30 pm (Location to be determined)**

Contest Orientation – All Judges and students are required unless prior approval has been authorized. Teachers and advisors are welcomed.

**1:30 pm – 2:30 pm (Location to be determined)**

**Written Exam**

FAA Part 107 Knowledge Exam of 30 questions. Students will need to bring their Airman Knowledge Testing Supplement (no markings allowed in book) and a device to access the internet for testing (laptop, Chromebook).

**2:30 pm – 5:00 pm (Location to be determined)**

**Presentation** by students forming a Search and Rescue Mission using a sUAS for a lost balloonist in the Bent Creek, just south of Asheville, North Carolina. Staging will be Bent Creek Baptist Church 35.507397524578394, -82.59611970144269. Balloon was last seen at 35.48276682211481, -82.62394872401636

**Station 1: Flight Inspection**

* The student will bring the sUAS to the test location and demonstrate a preflight, simulated flight, post flight inspection (see Skills Sheet)
* The student will demonstrate putting the sUAS back in service for transport and storage.

*Note: There will be no actual mission flown. The sUAS will not be powered*

**Station 2: Mission Briefing**

* The student will provide a written Mission Report to the Proctor upon his or her arrival in the testing room.
* The student will present a 5-minute maximum presentation of the mission.
* A Scoring rubric will be used.

**3:00 pm – 5:30 pm (Weather Permitting) (Location to be determined)**

Practice on the NIST skills props will be open to all Drone Pilot Contestants and Drone Teachers. A certified Part 107 drone teacher may serve as the RPIC with permission from the contest chair in advance. This is dependent on weather. First come first serve.

**Thursday April 28, 2022**

**7:00am – 3:00pm**

Fly day using NIST skills test provided by NCDPI (Weather permitting)

*Note: Fly Day could be Wednesday depending on weather.*

See the hyperlinks below for a sample of the NIST skills test.

* <https://bit.ly/3KSp2gc>
  + <https://bit.ly/3KSmHSA>

**Contest Rules**

* sUAS, SD card with a camera provided by the high school.
* Flights will be flown by the student pilot.
* Judges will act as Visual Observer (VO) and will check off scoring sheet.
* NIST testing shown below will be used.
* In case of a tie, the flight time will be the deciding factor. Time starts when the sUAS lifts off and returns touching the launching pad.
* In the case of a second tie, the number of correct points scored on the written test will be added to the skills test score (note, this is a double counting of the written score)
* Clothing requirement: Any Skills USA apparel will be accepted such as polo shirt (No school logo), khaki pants and closed-toe shoes. In addition, the student will need to wear safety glasses, helmet, and a safety vest while operating the sUAS.

