

Salinas Aerial Support Unit

May 22nd, 2023
Training Lesson Plan

S. Sparks



Location: Crazy Horse Golf Club
475 San Juan Grade Road
Salinas Ca. 93907

Description: On a May 22, 2023, officers assigned to the Salinas Police Aerial Support Unit will meet at the Salinas Police Department. The training will consist of group discussion regarding SPAS Operations. The Unit will then relocate to the Crazy Horse Golf Club where we will train in open area search and rescue, suspect search/apprehension. We will also train in mid-flight emergency scenarios to include video feed loss, lost link, engaging and disengaging RTH, returning to home manually without video feed, emergency landings,

**Materials
Needed:**

SPAS fleet UAV's to include:

1. DJI Mavic Dual
2. DJI M300
3. DJI M30
4. Autel EVO
- 5.

Materials Needed:

Course Description and Objectives

The goal of this course is to familiarize SPAS pilots with the listed UAV's in emergency situations, suspect searches and coordination with officers on the ground in both day and night time scenarios.

Pilots will be presented scenarios in which video feed is lost requiring VLOS and must RTH, canceling unwanted RTH, emergency landings, searching for suspects/missing person in both daytime and nighttime situations, coordinating with officers and K9's (if available) and if time permits payload deliveries to officers/victims.

Safety Plan: All pilots onsite are responsible for safety. If anyone feels there may be a potential safety hazard during a training exercise, that person is to stop the exercise by yelling "Stop mission flight" and point out the safety problem.

Loss of Video

Pilots will fly to a predetermined spot and instructed to provide overwatch in an orbit pattern. At some point the controller screen will be temporarily covered to simulate loss of video transmission. The RPIC will be instructed to fly the UAV home VLOS.

Return to Home and Canceling Return to Home

Pilots will set a proper return to home altitude for the training location and take flight to a predetermined location. RPIC will be instructed to activate return to home. Once UAV is near the home point the RPIC will be instructed to cancel RTH.

Emergency Landing

Pilots will be given a scenario in which they must make an emergency landing while conducting a suspect search. Once safely on the ground the pilot will re-launch to continue the mission.

Officer Down/Payload Delivery

Pilots will be given a scenario in which an officer is injured and pinned down by gun fire and must deliver a payload.

Evidence recovery

Pilots will be given a scenario in which an inaccessible item of evidence must be retrieved via UAV.

Wide Area Search and Rescue Night Operation

Pilots will conduct a wide area night operation to locate an injured or missing person.

Wide Area Suspect Search Night Operation

Pilots will conduct a wide area night operation to locate a wanted subject and once located directing officers to the subject's location utilizing night beacons and thermal imaging.