



UAS PART 107 TRAINING

ADMINISTRATIVE CONTACT/LEAD INSTRUCTOR

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ABOUT CRASAR: [HTTP://CRASAR.ORG/ABOUT-US/](http://CRASAR.ORG/ABOUT-US/)

LOCATION

FBC FAIRGROUNDS, BUILDING D
4310 HWY. 36 SOUTH
ROSENBERG, TX 77471

DATES/TIMES

22 JULY 2018 - 26 JULY 2018
MONDAY - THURSDAY: 0800 - 1700
FRIDAY: 0800 - 1300

MINIMUM STUDENTS: 8

MAXIMUM STUDENTS: 16

STUDENT REGISTRATION LINK

[HTTP://FBCOEM.ORG/DRONE-PART-107-FLIGHT-ACADEMY/](http://FBCOEM.ORG/DRONE-PART-107-FLIGHT-ACADEMY/)

Course Learning Objectives

Upon completion of this course, students will be able to:

1. Recognize all Federal regulations regarding operation of UAS in the National Airspace System, including 14 CFR Part 107, 14 CFR Part 91, 14 CFR Part 61, and Section 333 and Section 336 of Public Law 112-95
2. Distinguish UAS crew certification requirements for civil and public UAS operations.
3. Specify the roles and responsibilities of UAS crew members including the Pilot in Command (PIC).
4. Determine personal minimums in regards to risk, including drug and alcohol effects, weather, and mission requirements utilizing a PAVE checklist.
5. Distinguish between operations under 14 CFR Part 107 and Public Aircraft Certificates of Operation.
6. Recognize the regulations and limitations placed on UAS operations by 14 CFR Part 107 as well as by Public Certificates of Authorization.
7. Analyze issues with and risks to UAS operations created by conditions such as terrain, weather, obstructions, manned aviation, and airspace classification.

8. Identify type of airports and aeronautical facilities using published charts and information.
9. Classify the effects of weather on the performance of unmanned aircraft systems and appropriate sources for weather briefings and current information.
10. Define visual meteorological conditions and the minimum acceptable weather for UAS operations.
11. Identify information presented on aviation Sectional Charts and other maps.
12. Evaluate all conditions for a UAS flight and make an appropriate "go/no-go" decision.
13. Recall the effects of stress, fatigue, exhaustion, dehydration, and heat stress on decision making and performance.
14. Apply checklists and job aids to reduce the risks of operations.
15. Observe the conditions in and around the aircraft, the crew, and the operational area and extrapolate future conditions or events.
16. Apply appropriate pre-flight procedures prior to conducting a UAS sortie.
17. Carry out safe and effective typical unmanned aircraft operations, including takeoff, landing, cruise flight, climbs, turns, and descents.

Required Course Materials

Students will be provided all necessary course materials, including textbooks. There are no required textbooks to purchase.

Course Schedule

Day 1 (Monday)

0800 - 0900	Course Introductions and Administration
0900 - 1100	Regulations
1100 - 1200	Airspace
1200 - 1300	Lunch Break
1300 - 1400	Airspace
1400 - 1500	Operational Requirements
1500 - 1700	Weather

Day 2 (Tuesday)

0800 - 1200	Weather
1200 - 1300	Lunch Break
1300 - 1400	Weather and Performance
1400 - 1500	Aerodynamics
1500 - 1600	Loading
1600 - 1700	Quiz

Day 3 (Wednesday)

0800 - 1000	Airport Operations
1000 - 1200	Radio Communications
1200 - 1300	Lunch Break
1300 - 1400	Emergency Procedures
1400 - 1500	Aeronautical Decision Making
1500 - 1600	Physiology
1600 - 1700	Maintenance and Inspection

Day 4 - Group A (Thursday)

0800 - 0900	Review
0900 - 1000	Test Travel
1000 - 1200	FAA Part 107 Testing
1200 - 1300	Lunch Break
1300 - 1400	Mission Planning
1400 - 1700	Flying

Day 4 - Group B (Thursday)

0800 - 0900	Review
0900 - 1000	Mission Planning
1000 - 1200	Flying
1200 - 1300	Lunch Break
1300 - 1400	Test Travel
1400 - 1600	Testing
1600 - 1700	Flying

Day 5 (Friday)

0800 - 1200	Flying
1200 - 1300	Break / Class Evaluation