

COAST AERO VENTURES CTSW RENTAL/RECURRENCEY FORM

AIRCRAFT KNOWLEDGE TEST - AIRCRAFT FLIGHT MANUAL REQUIRED

Section 1: Airport and Airspace Knowledge Review –

Use New Orleans Sectional, ForeFlight, AIM, Chart Supplement (AFD), etc. for answers ...

1. What is the Airport Identifier for Ocean Springs Airport? _____
2. What is the runway length at Ocean Springs Airport? _____ KPQL? _____
3. What is the CTAF Frequency for Ocean Springs Airport? _____
4. Highest obstruction within 10 nm of Ocean Springs/5R2 _____ MSL Height? _____
5. At 1000 AGL, over Ocean Springs, what Class Airspace are you in? _____
6. At 1000 MSL, West of Ocean Springs Bridge, What Class Airspace are you in? _____
7. In #6, what frequency & facility to call to enter that airspace? _____ / _____
8. What is the upper altitude limit for the airspace in question #6 _____
9. What Class of Airspace lies directly above that in #6? _____ Upper Limit? _____
10. VFR Cloud Clearance & Visibility requirements in #5 Airspace? _____
11. VFR Cloud Clearance & Visibility requirements in #6 Airspace? _____
12. Gulfport Approach Frequency when departing Ocean Springs Airport West? _____
13. Mobile Approach Frequency when departing Ocean Springs Airport East? _____
14. CTAF Frequency for MS82, Shade Tree Field (8 nm NNW KGPT) _____

Section 2: Aircraft Operation and Servicing Knowledge Test (Use 2006 CTSW AFM, Checklist) –

Aircraft Servicing N169CT...

1. What is the fuel capacity of a 2006 CTSW N169CT Total? _____
2. What portion of the fuel is considered “unusable”? _____ gal.
3. Approved grade/s of fuel? Primary _____ Color? _____ Alt. _____ Color _____
4. When should a fuel sump sample be performed? _____
5. What is the recommended Oil Quantity for normal ops? _____ qts. Min. _____ qts.
6. Recommended Tire pressures? Mains _____ Nose _____

Section 3: Aircraft Weight & Balance, Flight Planning and Performance (CTSW AFM, Checklist) –

1. Define V_x ? _____ V_y _____ V_g _____ V_a _____
2. What are the following V Speeds... V_{ro} _____ V_x _____ V_y _____ V_{so} _____
 V_{s1} _____ V_{fe} (0 deg) _____ V_{fe} (15 deg) _____ V_{fe} (30/40 deg) _____
 V_{no} _____ V_{ne} _____ V_a (gross Wt.) _____
3. What is the aircraft's Empty Weight? _____ lbs. Gross Weight? _____ lbs.
4. Useful Load? _____ lbs. Payload with Full Fuel? _____ lbs.
5. How much fuel can you carry with pilot/copilot weight of 440 lbs.
and 30 lbs. in either baggage area in lbs. _____ gals _____.
6. At 75% power (5200 rpm, 912 ULS) what is est fuel burn/hr.? _____ gph KTAS? _____
7. IN #5 above, what is the endurance with 25 gallons, with a 1 hour reserve _____ hrs. _____ min.
8. Best Glide Speed at Gross Weight? _____ KIAS Recommended FLAP setting? _____ deg.

Use the Following information for a Weight & Balance, Take Off and Landing Data (TOLD) problem...

You _____ lbs. , your CFI (225 lbs.) in Front Seats, 25 gal/150 lbs. Fuel, 30 lbs. bags in baggage area.

Empty Weight (N169CT) -	701 lbs.	13.3 in.	9,323.3 in-lb Moment
Front Seats	_____ lbs.	20.5 in.	_____
Baggage area(s)	_____ lbs.	43.0 in.	_____
<u>Zero Fuel W&B condition</u>	_____ lbs.	_____ CG	_____
Fuel	_____ lbs.	11.8in.	_____
<u>Takeoff W&B condition</u>	_____ lbs.	_____ CG	_____
Fuel Consumed inflight	--- _____ lbs	11.8in.	--- _____
<u>Landing W&B condition</u>	_____ lbs.	_____ CG	_____

9. Using the above W&B info, what is the takeoff distance over a 50 ft. obstacle, std day, at sea level, with ZERO Wind? _____ ft. With 10 kts. Headwind? _____ ft.
10. Using above W&B info, what is the landing distance over a 50 ft. obstacle, std day, at sea level, with ZERO Wind? _____ ft. With 10 kts. Headwind? _____ ft.

Section 4: Aircraft Systems Review –

1. What is an indication of an Alternator malfunction/failure? _____
2. How could you restore/provide electrical power w/out the alternator? _____
3. What would you do if unable to restore alternator power? _____
4. What are 4 ways to disconnect/disable the autopilot ? _____
/ _____ / _____ / _____
5. What 2 functions does CARB HEAT do/provide? _____ / _____
6. With a blocked static source, what instruments would be affected? _____
7. What documents are required to be on board the aircraft (AR® OW) _____

8. Who is responsible for maintaining an aircraft in an airworthy condition? _____
9. Who is responsible for determining an aircraft is in airworthy condition? _____
10. What is the procedure for ENGINE FAILURE IMMEDIATELY AFTER TAKEOFF?

Section 1 - 4: Aircraft Knowledge, Performance, and Systems Review Completion Statement-

I have reviewed and have determined that this applicant has passed the above knowledge review for the Flight Design CTSW, as well as for local airspace knowledge in and around the Ocean Springs Airport.

Reviewing CFI/Authorized Pilot _____

Date ____/____/____

Section 5. Aircraft Checkout and Endorsement....

Date (Flight #1) _____ () **VFR**
Date (Flight #2) _____ (if needed) () **NIGHT**
Aircraft Type () **Flight Design CTSW** () **TURF OPS**
Aircraft ID N _____

Number of T/O/Landings Flt #1 _____ Flt #2 _____
Duration of Flight Flt #1 _____ hrs. Flt #2 _____ hrs.

Remarks and Maneuvers covered during flight and ground review...

I have given the above named pilot flight training/orientation as requested by Coast Aero Ventures Unltd, LLC, in order to rent/operate a Flight Design CTSW aircraft, and certify that he/she has completed and passed the aircraft check out process; in addition to passing the required knowledge test above; I therefore endorse this pilot for solo operations in this type aircraft.

Reviewing CFI/Authorized Pilot _____

Signature _____

Date ____/____/____

Applicant Pilot Certificate # _____ **Ratings** _____
Applicant BFR Date? _____ **Exp.?** _____
Applicant Medical Date? _____ **Exp.?** _____

- Attach on additional sheet the following items:
1. Copy of Front and Back of Pilot Certificate, Instructors Certificate (if applicable)
 2. Copy of Photo ID, Passport, Birth Cert, etc. (U.S. Citizen?)
 3. Copy of Current Medical Certificate