

**INTERIM CHANGE—06/26/2009**

**Louisiana Tech University  
Department of Professional Aviation  
Part 141 Flight School**

**COMMERCIAL PILOT AIRPLANE SINGLE-ENGINE LAND  
CERTIFICATION COURSE  
GROUND AND FLIGHT TRAINING MANUAL**

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Pending formal FAA approval, the LA Tech Commercial Pilot TCO is changed as follows, with both write-in changes and page changes. Accomplish write-in changes in pencil, lining through or 'z'ing out as needed. Post this page and the cover page in the back of the manual. For the page swap-outs, put the replacement pages in the appropriate places in front of the original pages, retaining the original.

### **WRITE-IN CHANGES:**

1. Renumber Page 2, "TRAINING FACILITIES", as Page 1. Item 2 on this page refers the reader to the drawings. Add "Room drawings, Pages 1.1 through 1.4 are available in the original document, located in the Chief Instructor's office."
2. Renumber Page 1, "INSTRUCTOR QUALIFICATIONS", as Page 2.
3. "TRAINING FACILITIES", (now Page 1), Item 9—Delete reference to Dr. Charles R. Heck, Jr. Replace with "James Z. Staten."
4. "INSTRUCTOR QUALIFICATIONS", (now Page 2), "FLIGHT INSTRUCTORS" section—delete Item 4, renumber Item 5 as '4'.
5. Page 4, Preface page—delete TABLE OF CONTENTS.
6. Page 5—delete. A replacement page containing the TABLE OF CONTENTS and INSTRUCTION TIME SUMMARY will be provided below.
7. Page 8—delete "(1 HOURS)". Replace with "(1hr)".
8. Page 9—delete "(3 HOURS)". Replace with "(3hr)".
9. Page 9—add Item 6 to read "Magnetic compass for pilotage and dead-reckoning".
10. Page 35, Item 16—In the COMMERCIAL MANEUVERS REVIEW row, under the DUAL column, delete "2.0" and replace with "1.5".
11. Page 47—renumber first set of Items 4, 5, and 6 to read "1", "2", and "3".
12. Page 53, Item 8—In the CROSS-COUNTRY OPERATIONS row, under the DUAL column, add "25.0". Under the SOLO/PIC column, delete "61.0" and replace with "36.0".
13. Page 53, Item 23—In the COMPLEX A/P STAGE CHECK (PRAV 343) row, under the DUAL column, delete "1.5" and replace with "1.0".
14. Page 54—Delete the entire last line ("TOTAL PRAV, etc.) Replace with the following:  
"TOTAL PRAV 343 AND 344 – STAGE TWO" with the numbers to read as follows:  
Columns    1<sup>st</sup> "45.0"    2<sup>nd</sup> "41.0"    3<sup>rd</sup> "13.0"    4<sup>th</sup> "11.9"    5<sup>th</sup> blank
15. Page 62 is deleted in its entirety. A replacement page will be provided below.
16. Page 77, LESSON 23—revise "(1.0hr ORAL/1.5hr DUAL)" to read "(1.0hr ORAL/1.0hr DUAL)".
17. Page 86, Item 2—add sub-item 'K' to read "Airworthiness requirements".
18. Page 88 is deleted. Replace with new page 88 below.
19. Page 89 is deleted.

### **PAGE CHANGES:**

**TABLE OF CONTENTS**

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**INSTRUCTION TIME SUMMARY**

<b>TRAINING STAGE</b>	<b>DUAL</b>	<b>SOLO/PIC</b>	<b>XC</b>	<b>FTD</b>	<b>ORAL</b>	<b>GROUND</b>
GROUND STAGE ONE						37.0
GROUND STAGE TWO						25.0
FLIGHT STAGE ONE	10.0	0.0	0.0	11.0	8.7	
FLIGHT STAGE TWO	<u>45.0</u>	<u>41.0</u>	<u>65.0</u>	<u>13.0</u>	<u>11.9</u>	
<b>TOTAL</b>	<b>55.0</b>	<b>41.0</b>	<b>65.0</b>	<b>24.0</b>	<b>20.6</b>	<b>62.0</b>

**NOTES:**

1. Dual cross-country (XC) training is accomplished in Lessons 5 (2.0), 6 (2.0), and 8 (25.0.)
2. Solo flight time required is 10.0 hours (5.0 night and 5.0 XC.)

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### **LESSON 8: CROSS-COUNTRY OPERATIONS**

**(5 hours SOLO [sole occupant in accordance with 14 CFR 141]) +  
(25.0 hours DUAL [as needed to achieve 55 hours flight instruction received in  
accordance with 14 CFR 141]) +  
(31 hours PIC [this PIC time rounds out the 120 hours total time required by 14  
CFR 141, and may be sole manipulator, safety pilot, sole occupant, or dual received  
in an aircraft for which the student is already rated])  
=  
61 hours TOTAL IN THIS LESSON**

**OBJECTIVES:** This lesson meets the requirement of a long cross country with landings at a minimum of three points, with on leg at least 250 miles long, as well as the total cross-country time.

#### **CONTENT:**

1. Solo Cross-Country:
  - A. Land at a minimum of 3 points
  - B. One leg of at least 250 nm straight-line distance
2. PIC Cross-Countries:
  - A. **Must be conducted in VMC; the intent is for the student to navigate under simulated instrument conditions with a safety pilot aboard.**
3. 25 hours dual is needed to achieve 55 hours flight instruction per Part 141.

**COMPLETION STANDARDS:** This lesson is complete when the student has accomplished the required long solo cross-country as well as all hours of additional cross-country time.

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### **LESSON 32: (1.5 hrs ORAL / 1.5 hrs DUAL) FINAL COMMERCIAL STAGE CHECK**

**OBJECTIVES:** This is the final check for the Commercial Pilot Certificate Training Course. A student who successfully completes this stage check will be awarded the graduation certificate for the commercial pilot training course.

#### **CONTENT:**

1. Preflight preparation
2. Preflight procedures
3. Airport Operations
4. Takeoffs, landings, and go-arounds
5. Performance maneuvers
6. Navigation
7. Slow flight and stalls
8. Emergency Operations
9. High-altitude operations
10. Post-flight procedures

**COMPLETION STANDARDS:** The check instructor must be confident that the student has the maturity, skills, judgment, and knowledge required of a commercial pilot. The student's performance will be evaluated by the standards prescribed by the Commercial Pilot Practical Test Standards. The student successfully completing this examination will be awarded a graduation certificate and will be recommended for the commercial pilot practical test.