

Commercial Lesson Outline

1. SUBJECT AREAS (GENERAL)		
a. Aeromedical Factors	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	
b. Weight and Balance	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	
c. High Altitude Operations, Oxygen	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	
d. Regulations: FAR's, AIM, Reading List	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	
1. MSA, Right of Way,	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	
e. Aviation Publications, Reading list	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	
f. Airspace (ABCDEG, SUA, Other)	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	
1. Equipment, Rules, Wx	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	
g. ATC Radar Services	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	
h. Logbook, Certs, Endorsements, Cat/Class	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	
i. Checklists and Acronyms	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	
j. ADM: PAVE, IMSAFE, DECIDE	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	
k. Special Emphasis Areas	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	
2. TECHNICAL SUBJECTS		
a. Certificates, Documents, Airworthiness	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	
b. Operation of Systems	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	
1. Engine, ignition, carb/injected, oil, turbo...	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	
2. Propeller, Constant Speed	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	
3. Landing Gear, Brake Systems	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	
4. Flaps and High Lift Devices	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	
5. Fuel System, grade, usable, Hi/Lo Wing	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	
6. VFR Flight Instruments	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	
7. Electrical, Vacuum, Pitot/Static,	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	
c. POH Sections, Perf/Limitations, Vspeeds, Charts	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	
d. Airspeeds, KIAS, KCAS, KTAS, Ground Speed	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	
e. Placards and Limitations, Instrument Indications	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	
3. PREFLIGHT PROCEDURES		
a. Preflight Inspection	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	
b. Cockpit Management and CRM	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	
c. Engine Start and Run-up, Passenger Briefing	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	
d. Taxiing, Wind Correction	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	
e. Before Takeoff Checks, Departure Briefing	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	
4. AIRPORT OPERATIONS		
a. Radio Communications, ATC, CTAF	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	
b. Traffic Patterns (right/left), Pattern Entry	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	
c. Airport and Runway Markings and Lighting	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	
d. Tower and Non-Tower Operations	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	
e. Wind Indicators, Fly Overs, Unicom	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	
f. Clearances, Hold Shorts, Lineup, Rwy Xing	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	
5. TAKEOFFS, LANDING AND GO-AROUNDS		
a. Normal and Crosswind Takeoff	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	
b. Short-Field Takeoff and Climb	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	
c. Soft-Field Takeoff and Climb	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	
d. Normal and Crosswind Landing	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	
e. Forward Slip to a Landing	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	
f. Go-Around/Rejected Landing	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	
g. Short-Field Approach and Landing	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	
h. Soft-Field Approach and Landing	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	
i. Power-off 180° Accuracy Landing	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	
j. Aborted Takeoff	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	
6. PERFORMANCE MANEUVERS (>1500' AGL)		
a. Steep Turns (50°)	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	
b. Steep Spirals	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	
c. Chandelle's	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	
d. Lazy 8's	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	
7. GROUND REFERENCE MANEUVERS (600-1000 AGL)		
a. 8's on Pylons	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	
8. NAVIGATION and CROSS COUNTRY		
a. Pilotage and Dead Reckoning	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	
b. FSS/ATC Services, Navigation/Comm Systems	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	
c. Diversion and estimations	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	
d. Lost Procedures	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	
e. Navigation Log and Flight Planning steps	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	
f. Radio Navigation, VOR, ADF, GPS Systems	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	
g. Flight Planning, Wx, VFR File	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	
h. Charts, AF/D, Airport Diagrams	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	
i. Solo Cross-Country Checklist	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	
9. STALLS, SLOW FLIGHT, SPINS (>1500' AGL)		
a. Maneuvering During Slow Flight	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	
b. Power-On Stalls (pre, full, turning)	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	
c. Power-Off Stalls (pre, full, turning)	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	
d. Accelerated Maneuver Stalls	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	
e. Spins and Spin Awareness	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	
f. <i>Crossed-Control Stalls</i>	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	
g. <i>Elevator Trim Stalls</i>	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	
h. <i>Secondary Stalls</i>	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	
10. EMERGENCY OPERATIONS		
a. Emergency Approach and Landing (engine out)	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	
b. Systems and Equipment Malfunctions	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	
c. Emergency Equipment and Survival Gear	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	
d. <i>Emergency Descent (commercial only)</i>	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	
e. Departure Decisions, Use of Checklists	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	
f. Lost, Lost Comm, Light Gun Signals	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	
g. Loss of Flight Controls (primary controls)	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	
h. Fire in flight procedures	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	
11. WEATHER		
a. Weather Theory	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	
b. Wx Reports: METAR/TAF, TFR, Notam's,...	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	
c. Wx Briefings, Hazardous Wx, In-Flight	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	
d. Atmosphere and Performance	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	
12. POSTFLIGHT PROCEDURES		
a. After Landing, Parking and Securing	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	
13. Addition Areas and Maneuvers		
a. Minimum Equipment Lists (MEL)	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	
b. <i>Impossible Turn, small radius turns</i>	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	
c. <i>Stuck Throttle Approach/Landing</i>	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	
d. A/C Logs, Maintenance Tour, Tower Tour	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	
e. Autopilot usage	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	
14. Stage Preps/Checks		
a. CheckRide Prep: Practical Test Standards (PTS)	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	
b. CheckRide Prep: Oral Prep Areas	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	

Aeronautical Experience - 14CFR 61.129

250 Total hours	
100 hours in powered, 50 in airplane	
100 hours PIC, 50 in airplane, 50 hours XC (10 in airplane)	
20 hours of training in areas of 61.127(b)(1)	
10 hours instrument (simulated/actual)	
10 hours complex	
2 hour Dual XC Day VFR conditions (>100nm)	
2 hour Dual XC Night VFR conditions (>100nm)	
3 hours of instruction within 2 months of Checkride	
10 hours of solo in airplane	
XC 250nm point to point, 3 points, >300nm total	
5 hours night VFR, 10 TOAL at towered airport	

☐☐☐ = Introduced, Experienced, Mastered
 (Matt Beyer 2016.0508)