



DEPARTAMENTO “SEGURIDAD OPERACIONAL”
SUBDEPARTAMENTO “LICENCIAS”
SECCIÓN EVALUACIONES

CESSNA C-172K o SKYHAWK o C-172XP

A.- Limitaciones de Operación

1.- Limitaciones								
	172	172K MPH	Skyhawk MPH	172M MPH	172XP KIAS			
Va		122	122	110	99			
Vne		174	174	182	158			
Vno		138	140	145	127			
Vfe		52		100	110			
Vs		57	57	55	44			
Vso		49	49	50	33			
Vx		65	68	62				
Vy		80	82	77				
Vr		60	60	60	45			
Vplano		80		75-85	60			
Vapp		70		65-75				
X-Cross		-0-	-0-	-0-	15			
2.- Combustible (Galones U.S.)								
Tipo	100/130 o 100LL							
Capacidad Total		39		42	43			
Comb. Utilizable		36		38	40			
Press Comb. Min.								
Press Comb. Max.								
3.- Pesos (Libras)								
Max. T-OFF		2.300	2.300	2.220	2.400			
Max. Bagg.		120	120	120	120			

4.- Motor									
Max. HP o BHP		145	150		160				
Max. RPM	2.700								
Max. Oil Temp.	Red line o 245 °F								
Static RPM Sea Level									
Not Above		2.500			2.450				
Not Below		2.200			2.100				
Oil Pressure									
Minimum		10			25				
Maximum		100			115				
5.- Maneuver Limits (Utility Category)									
Spins (Flaps UP)	Show Deceleration								
Steep Turns		122	122	110	95				
Lazy Eights		122	122	110	105				
Chandelles		122	122	110	105				

B.- Emergencies Procedures

1.- ENGINE FAILURE DURING TAKEOFF RUN

Throttle	IDLE
Brakes	APPLY
Wing Flaps	RETRACTED
Mixture	IDLE CUT-OFF
Ignition Switch	OFF
Master Switch	OFF

2. - ENGINE FAILURE IMMEDIATELY AFTER TAKEOFF

Airspeed	70-80 MPH ó 65 KIAS (FLAPS UP) 60 KIAS (FLAPS DOWN)
Mixture	IDLE CUT-OFF
Fuel Selector valve	OFF
Ignition Switch	OFF
Wing Flaps	AS REQUIRED
Master Switch	OFF

3. - ENGINE FAILURE DURING FLIGHT

Airspeed	80 MPH ó 65 KIAS
Carburetor Heat	ON
Fuel Selector valve	BOTH
Mixture	RICH
Ignition Switch	BOTH (or START if propeller is stopped)
Primer	IN and LOCKED

4. - FIRE DURING START ON GROUND

Cranking	CONTINUE
If Engine Start	
Power	1700 for few minutes
Engine	SHUTDOWN and inspect for damage
If Engine Fails to Start	
Throttle	FULL OPEN
Mixture	IDLE CUT-OFF
Cranking	CONTINUE
Fire Extinguisher	OBTAIN (have ground attendants obtain if not installed)
Engine	SECURE
Master Switch	OFF
Ignition Switch	OFF
Fuel Selector Valve	OFF
Fire	EXTINGUISH using fire extinguisher, wool blanket or dirt
Fire Damage	INSPECT, repair damage or replace damaged component or Wiring before conducting another flight

5. - ENGINE FIRE IN FLIGHT

Mixture	IDLE CUT-OFF
Fuel Selector Valve	OFF
Master Switch	OFF
Cabin Heat and Air	OFF (except wing root vents)
Airspeed	100 KIAS (if fire not extinguished, increase glide speed to find an airspeed which will provide an incombustible mixture)
Forced Landing	EXECUTE (as describe in Emergency landing Without Engine Power)