



DEPARTAMENTO “SEGURIDAD OPERACIONAL”
SUBDEPARTAMENTO “LICENCIAS”
SECCIÓN EVALUACIONES

“CESSNA C-172N”
“CLUB AÉREO SANTIAGO”

A.- Limitaciones de Operación

1.- Limitaciones (Velocidades)

	KIAS
Va	97
Vne	160
Vno	128
Vfe	85
Vs	47
Vso	41
Vx	60
Vy	70
Vr	55
Vapp (Flap DN)	60
Vplaneo	65
Max Cross Wind	15

2.- Combustible (U.S. GAL)

Tipo a Utilizar	100/130
Capacidad Total	54
Capacidad Usable	50

3.- Pesos (LBS)

Máximo TAKE-OFF	2300
Máximo Equipaje	120

4.- Motor (Potencia Máxima Continua)

Limitaciones Operativas de Motor	
Razón HP o BHP	160
Máximas RPM	2700
RPM estáticas	
Máximas	2400
Mínimas	2280
Temperatura de aceite (°F)	
Máxima	245
Mínima	100
Presión de aceite (PSI)	
Máxima	100
Mínima	25

5.- Límites de maniobras (Cat. Normal)

MANIOBRA	KIAS
Spin (Flaps UP)	SLOW DECELERATION
Escarpados	95
Ocho Flojo	105
Chandela	105

B.- Emergencies Procedures

1.- ENGINE FAILURE DURING TAKEOFF RUN

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

2. - ENGINE FAILURE IMMEDIATELY AFTER TAKEOFF

Airspeed	65 KIAS (FLAPS UP) 61 KIAS (FLAPS DN)
Mixture	IDLE CUT-OFF
Fuel Selector Valve	OFF
Ignition Switch	OFF
Wing Flaps	AS REQUIRED
Master Switch	OFF

3. - ENGINE FAILURE DURING FLIGHT

Airspeed	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**, to get a start, which would suck the flames and accumulated fuel through the carburetor and into the engine.

If engine starts:

Power **1700** RPM for a 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
a. Master switch	OFF
b. Ignition switch	OFF
c. Fuel selector valve	OFF
Fire	EXTINGUISH using fire extinguisher, wool blanket or dirt.
Fire Damage	INSPECT repair damage or replace damaged components 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 overhead vent)
Airspeed	100 KIAS (if fire is not extinguished, increase glide speed to find an airspeed which will provide an incombustible mixture).
Forced Landing	EXECUTE (as described in Emergency Landing without Engine Power).