



**DEPARTAMENTO “SEGURIDAD OPERACIONAL  
”SUBDEPARTAMENTO “LICENCIAS”  
SECCIÓN EVALUACIONES**

**“CESSNA 182T”  
CARABINEROS DE CHILE**

NOMBRE : \_\_\_\_\_ FIRMA: \_\_\_\_\_

FECHA : \_\_\_\_\_

**A.- Operating Limitations**

**1.- Limitations (Airspeed)**

	<b>KIAS</b>
Va (3100 Lbs)	<b>110</b>
Vne	<b>175</b>
Vno	<b>140</b>
Vfe	<b>140</b>
Vs	<b>51</b>
Vso	<b>41</b>
Vx (Sea level)	<b>65</b>
Vy (Sea Level)	<b>80</b>
Vr	<b>50-60</b>
Vapp (Flap Down)	<b>60-70</b>
Vglide (3100 Lbs)	<b>76</b>
Max Cross Wind	<b>15</b>

**2.- Fuel (U.S. GAL)**

Approved Fuel Grade	<b>100 LL</b>
Total Capacity	<b>92</b>
Total Usable	<b>87</b>

**3.- Weight (LBS)**

Maximum Takeoff	<b>3100</b>
Max. Baggage	<b>200</b>

**4.-Engine (Maximum Continuous Power)**

<b>Engine Operating Limitations</b>	
Reason HP o BHP	<b>230</b>
Maximum RPM	<b>2400</b>
<b>Cylinder Head Temperature (°F)</b>	
Maximum	<b>500</b>
Minimum	<b>200</b>
<b>Oil Temperature (°F)</b>	
Maximum	<b>245</b>
Minimum	<b>100</b>
<b>Oil Pressure (PSI)</b>	
Maximum	<b>115</b>
Minimum	<b>20</b>

**5.- Maneuvering Limits (Normal Cat)**

Maneuver	KIAS
Spin (Flap UP)	<b>NOT APPROVED</b>
Steep turns	<b>110</b>
Lazy eight	<b>110</b>
Chandele	<b>110</b>

## **B.- EMERGENCIES PROCEDURES**

### **1.- ENGINE FAILURE DURING TAKEOFF ROLL**

1. Throttle Control \_\_\_\_\_       IDLE
2. Brakes \_\_\_\_\_       APPLY
3. Wing Flaps \_\_\_\_\_       RETRACT
4. Mixture Control \_\_\_\_\_       IDLE CUT OFF
5. MAGNETOS Switch \_\_\_\_\_       OFF
6. STBY BATT Switch \_\_\_\_\_       OFF
7. MASTER Switch (ALT and BAT) \_\_\_\_\_       OFF

### **2. - ENGINE FAILURE IMMEDIATELY AFTER TAKEOFF**

1. Speed \_\_\_\_\_       75 KIAS FLAP UP  
70 KIAS FLAP 10° - FULL
2. Mixture Control \_\_\_\_\_       IDLE CUT OFF
3. FUEL SELECTOR Valve \_\_\_\_\_       OFF
4. MAGNETOS Switch \_\_\_\_\_       OFF
5. Wing Flaps \_\_\_\_\_       AS REQUIRED
6. STBY BATT Switch \_\_\_\_\_       OFF
7. MASTER Switch (ALT and BAT) \_\_\_\_\_       OFF
8. Cabin Door \_\_\_\_\_       UNLATCH
9. Land \_\_\_\_\_       STRAIGHT AHEAD

### **3. - ENGINE FAILURE DURING FLIGHT (Restart Procedures)**

1. Airspeed \_\_\_\_\_       76 KIAS
2. FUEL SELECTOR Valve \_\_\_\_\_       BOTH
3. FUEL PUMP Switch \_\_\_\_\_       ON
4. Mixture Control \_\_\_\_\_       RICH
5. MAGNETOS Switch \_\_\_\_\_       BOTH (OR START)

#### 4.- DURING START ON GROUND

1. MAGNETOS Switch START

#### IF ENGINE STARTS:

2. Power 1800 RPM (For a few minutes)

3. Engine SHUTDOWN

#### IF ENGINE FAILS TO START:

1. Throttle Control FULL

2. Mixture Control IDLE CUT OFF

3. MAGNETOS Switch START

4. FUEL SELECTOR Valve OFF

5. FUEL PUMP Switch OFF

6. MAGNETOS Switch OFF

7. STBY BATT Switch OFF

8. MASTER Switch (ALT and BAT) OFF

9. Engine SECURE

10. Parking Brake RELEASE

11. Fire Extinguisher OBTAIN

12. Airplane EVACUATE

13. Fire EXTINGUISH

14. Fire Damage INSPECT

#### 5.- ENGINE FIRE IN FLIGHT

1. Mixture Control IDLE CUT OFF

2. FUEL SELECTOR Valve OFF

3. FUEL PUMP Switch OFF

4. MASTER Switch (ALT and BAT) OFF

5. Cabin Vents OPEN

- 6. CABIN HT and CABIN AIR OFF
- 7. Airspeed 100 KIAS
- 8. Forced Landing EXECUTE

**6. FORCED LANDINGS**

- 1. Pilot and Passenger Seat Backs MOST UPRIGHT POSITION
- 2. Seats and Seat Belts SECURE
- 3. Airspeed 75 KIAS FLAP UP  
70 KIAS FLAP 10° - FULL
- 4. Mixture Control IDLE CUT OFF
- 5. FUEL SELECTOR Valve OFF
- 6. MAGNETOS Switch OFF
- 7. Wing Flaps AS REQUIRED (full recommended)
- 8. STBY BATT Switch OFF
- 9. MASTER Switch (ALT and BAT) OFF
- 10. Doors UNLATCH
- 11. Touchdown SLIGHTLY TAIL LOW
- 12. Brakes APPLY HEAVILY