



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

**“CESSNA C-172”**  
**“CLUB AÉREO NAVAL”**

**A.- Limitaciones de Operación**

1.- Limitaciones (Velocidades)

|                | MPH   |
|----------------|-------|
| Va             | 115   |
| Vne            | 160   |
| Vno            | 140   |
| Vfe 10°        | 100   |
| Vs             | 58    |
| Vso            | 52    |
| Vx             | 60    |
| Vy             | 72    |
| Vr             | 60    |
| Vapp (Flap DN) | 65-75 |
| Vplaneo        | 75    |
| Max Cross Wind | 20    |

2.- Combustible (U.S. GAL)

|                              |          |
|------------------------------|----------|
| Tipo a Utilizar              | 100/130  |
| Capacidad Total              | 37       |
| Capacidad Usable             | 35       |
| Presión de Combustible (PSI) |          |
| Mínima                       | Red Line |
| Máxima                       | Red Line |

3.- Pesos (LBS)

|                 |       |
|-----------------|-------|
| Máximo TAKE-OFF | 2.200 |
| Máximo Equipaje | 120   |

4.- Motor (Potencia Máxima Continua)

| Limitaciones Operativas de Motor |          |
|----------------------------------|----------|
| Razón HP o BHP                   | 145      |
| Máximas RPM                      | 2.700    |
| RPM estáticas                    |          |
| Máximas                          | 2.450    |
| Mínimas                          | 2.200    |
| Temperatura de aceite (°F)       |          |
| Máxima                           | Red Line |
| Mínima                           | Red Line |
| Presión de aceite (PSI)          |          |
| Máxima                           | 50       |
| Mínima                           | 5        |

5.- Limites de maniobras (Cat. Normal)

| MANIOBRA        | MPH               |
|-----------------|-------------------|
| Spin (Flaps UP) | SLOW DECELERATION |
| Escarpados      | 115               |
| Ocho Flojo      | 115               |
| Chandela        | 115               |

## B.- Emergencies Procedures

### 1.- ENGINE SHUTDOWN

|                     |              |
|---------------------|--------------|
| Mixture             | IDLE CUT-OFF |
| Selector Fuel Valve | OFF          |
| Magneto switch      | OFF          |

### 2.- ENGINE FAILURE DURING TAKEOFF RUN

|                 |         |
|-----------------|---------|
| Throttle        | IDLE    |
| Brakes          | APPLY   |
| Engine Shutdown | EXECUTE |

### 3. - ENGINE FAILURE IMMEDIATELY AFTER TAKEOFF

|                    |                   |
|--------------------|-------------------|
| Airspeed           | 80 MPH (FLAPS UP) |
| Mixture            | IDLE CUT-OFF      |
| Fuel Shutoff Valve | OFF               |
| Magneto Switch     | OFF               |
| Wing Flaps         | AS REQUIRED       |
| Master Switch      | OFF               |

### 4. - ENGINE FAILURE DURING FLIGHT

|                     |               |
|---------------------|---------------|
| Airspeed            | 80 MPH        |
| Fuel Selector Valve | BOTH          |
| Mixture             | RICH          |
| Throttle            | VERIFY        |
| Carburetor Heat     | ON            |
| Master Switch       | ON            |
| Drain               | SECURED       |
| Magneto Switch      | BOTH          |
| Primer              | IN AND LOCKED |

## 5. - FIRE DURING START ON GROUND

|                     |              |
|---------------------|--------------|
| Mixture             | IDLE CUT-OFF |
| Throttle            | FULL OPEN    |
| Cranking            | CONTINUE     |
| Master Switch       | OFF          |
| Fuel Selector Valve | OFF          |
| Magneto Switch      | OFF          |
| Airplane            | EVACUATE     |

## 6. - ENGINE FIRE IN FLIGHT

|                    |              |
|--------------------|--------------|
| Mixture            | IDLE CUT-OFF |
| Fuel Shutoff Valve | OFF          |
| Magneto Switch     | OFF          |
| Master Switch      | OFF          |
| Forced Landing     | EXECUTE      |