

Flight Exam Preparation

20160816

**FLIGHT TEST REPORT Recreational Pilot Licence - Aeroplane
(Form 61-1486)**

GROUND COMPONENT

1. **Underpinning Knowledge required for items 9 to 59**
2. **Privileges and limitations of the recreational pilot licence with aeroplane category rating;**
 - can carry passengers if at least 3 take-offs and landings within previous 90 days **CASR61.395**
 - pilot holds and carries **CASR61.420(b)** class 1 or 2 medical certificate or RAMCP under conditions in subparagraph 2 **CASR61.405**
 - pilot must carry documents; licence, medical certificate, maintenance release, pilot operating handbook
 - must have English proficiency assessment **CASR61.422**
 - pilot only registered aircraft **CASR61.425**
 - airspace within 25nm of departure aerodrome, within flight training area and direct between departure aerodrome and flight training area **CASR61.427**
 - single-engine aircraft, MTOW <= 1500kg, day VFR, private operation or flight training **CASR61.460**
 - CASR 61.E.1
 - **CASR 61.375 Limitations on exercise of privileges of pilot licences-ratings**
 - **CASR 61.380 Limitations on exercise of privileges of pilot licences-flight activity and design feature endorsements**
 - **CASR 61.385 Limitations on exercise of privileges of pilot licences-general competency requirement**
 - **CASR 61.390 Limitations on exercise of privileges of pilot licences-operating requirements and limitations**
 - **CASR 61.395 Limitations on exercise of privileges of pilot licences-recent experience for certain passenger flight activities**
 - **CASR 61.400 Limitations on exercise of privileges of pilot licences-flight review**

- CASR 61.405 Limitations on exercise of privileges of pilot licences—medical requirements—recreational pilot licence holders
- CASR 61.410 Limitations on exercise of privileges of pilot licences—medical certificates: private pilot licence holders
- CASR 61.415 Limitations on exercise of privileges of pilot licences—medical certificates: commercial, multi-crew and air transport pilot licence holders
- CASR 61.420 Limitations on exercise of privileges of pilot licences—carriage of documents
- CASR 61.422 Limitations on exercise of privileges of pilot licences—aviation English language proficiency
- CASR 61.425 Limitations on exercise of privileges of pilot licences—unregistered aircraft
- CASR 61.427 Removal of certain pilot licence conditions about airspace
- CASR 61.G.1
 - CASR 61.460 Privileges of recreational pilot licences
 - CASR 61.465 Limitations on exercise of privileges of recreational pilot licences—general
 - CASR 61.470 Limitations on exercise of privileges of recreational pilot licences—endorsements
 - CASR 61.475 Requirements for grant of recreational pilot licences
 - CASR 61.480 Grant of recreational pilot licences in recognition of pilot certificates granted by certain organisations
- Endorsements
 - Controlled Aerodrome (*received with RPL*)
 - Controlled Airspace (*received with PPL*)
 - Flight Radio Operator (*received with RPL*)
 - Navigation (*received with PPL*)

3. Applicability of drug and alcohol regulations;

- 8 hours from consumption of alcohol to departure
- not intoxicated (0.02 grams per 210 litres of breath)
- crew will not consume while on board
- CASA Medication
- “Always consult your DAME or CASA about the safe use of medication. Many may be used with appropriate guidance and safeguards.”

4. VFR aircraft instrument requirements;

- **CA020.18(10)** Serviceability
- **CA020.18(Appendix 1)** Instruments required for flight under Visual Flight Rules
 - airspeed indicator
 - altimeter
 - direct or remote magnetic compass
 - timepiece with hours, minutes, seconds
- PoH Section 2 LIMITATIONS - KINDS OF OPERATIONS EQUIPMENT LIST
 - Cessna 172R page 50
 - Cessna 172S page 50

5. Emergency equipment requirements;

- life jackets and life rafts **CA020.11(5)**
 - life jackets when over water and out of glide **CA020.11(5.1)**
 - sufficient life raft(s) when min(30 minutes cruise)(100nm) **CA020.11(5.2.1)**
- emergency signalling equipment **CA020.11(6)**
 - if life raft required, 1 ELT and pyro distress signals **CA020.11(6.1)**
 - if more than one life raft required, then ≥ 2 (approved ELT under reg 252A) transmitters 121.5MHz and 243MHz and stowed ready for use **CA020.11(6.1)**
 - single-engine, over water, not equipped with radio or incapable of air-to-ground radio, not required to carry a life raft, shall carry ELT (121.5MHz and 243MHz approved under reg 252A) **CA020.11(6.2)**
- briefing of passengers **CA020.11(14)**
 - smoking requirements **CA020.11(14.1.1)**
 - use of seat belts **CA020.11(14.1.1)**
 - location of emergency exits **CA020.11(14.1.1)**
 - use of oxygen where applicable **CA020.11(14.1.1)**
 - use of floatation devices where applicable **CA020.11(14.1.1)**
 - stowage of luggage **CA020.11(14.1.1)**
 - onboard survival equipment **CA020.11(14.1.1)**

6. Fuel planning and oil requirements for the flight;

- PiC must take steps to ensure sufficient fuel and oil **CAR1988(234) Fuel requirements**
- Fixed fuel reserve for VFR, aeroplane, piston-engine: 45 minutes **CAAP 234-1(1) GUIDELINES FOR AIRCRAFT FUEL REQUIREMENTS**

- 5-8 quarts of oil **Cessna 172 PoH Section 8 CAPACITY OF ENGINE SUMP**

7. Managing cargo and passengers;

- **CA020.16.2 AIR SERVICE OPERATIONS – LOADING – GENERAL**
 - Cargo on or above floor shall be restrained **CA020.16.2(3)**
 - Cargo shall not obstruct flight controls **CA020.16.2(4.1)**, emergency exits **CA020.16.2(4.2)**
 - Cargo on a passenger seat shall evenly distribute weight, not exceeding 77kg **CA020.16.2(5.1)** and restrained **CA020.16.2(5.2)**
 - Cargo on unoccupied control seat shall not exceed 77kg **CA020.16.2(6.2)**, restrained **CA020.16.2(6.4)**, flight controls removed if easy **CA020.16.2(6.3.1)**, not interfere with aircraft operation **CA020.16.2(6.3)**
- **CA020.16.3 Air service operations – carriage of persons**
 - seat belts during take-off, landing, < 1000ft AGL, turbulence **CA020.16.3(4.1)**
 - one pilot crew wearing seat belt at all times **CA020.16.3(4.2)**
 - seats upright during take-off and landing **CA020.16.3(5.1)**
 - passenger in control seat must be given instruction, no interfere with flight controls **CA020.16.3(11.1)**
 - two infants (<=3 years of age) may be carried on one seat with total weight <= 77kg **CA020.16.3(13.1)**

8. Aircraft speed limitations

- PoH Section 2 LIMITATIONS
 - Cessna 172R page 39
 - * Vne = 163KIAS
 - * Vno = 129KIAS
 - * Va(2450) = 99KIAS
 - * Va(2200) = 94KIAS
 - * Va(1600) = 82KIAS
 - * Vfe(10) = 110KIAS
 - * Vfe(>10) = 85KIAS
 - * EFAT0(no flap) = 65KIAS
 - * EFAT0(flaps) = 60KIAS
 - * Best Glide = 65KIAS
 - * Prec-search = 60KIAS
 - * Land no power(no flap) = 65KIAS
 - * Land no power (flap) = 60KIAS
 - * Vx = 60KIAS
 - * Vy = 79KIAS

- * S/F T/O = 57KIAS
- Cessna 172S page 39
 - * Vne = 163KIAS
 - * Vno = 129KIAS
 - * Va(2550) = 105KIAS
 - * Va(2200) = 98KIAS
 - * Va(1600) = 90KIAS
 - * Vfe(10) = 110KIAS
 - * Vfe(>10) = 85KIAS
 - * EFATO(no flap) = 70KIAS
 - * EFATO(flap) = 65KIAS
 - * Best Glide = 68KIAS
 - * Prec-search = 65KIAS
 - * Land no power(no flap) = 70KIAS
 - * Land no power (flap) = 65KIAS
 - * Vx = 62KIAS
 - * Vy = 74KIAS
 - * S/F T/O = 61KIAS
- PoH Section 3 EMERGENCY PROCEDURES
 - Cessna 172R page 67
 - Cessna 172S page 67
- PoH Section 4 NORMAL PROCEDURES
 - Cessna 172R page 107
 - Cessna 172S page 107

9. Communicating face-to-face

10. Operational communication using an aeronautical radio

11. Complete all required pre-flight actions and procedures

- Maintenance guide for pilots

**FLIGHT TEST REPORT Class Rating - Single Engine Aeroplane
(Form 61-1495)**

GROUND COMPONENT

1. Underpinning Knowledge of 10 to 54

2. Privileges and limitations of the single engine aeroplane class rating

- pilot licence must demonstrate competency of part 61 MoS **CASR61.400**

- flight review every 24 months, within 3 months of expiry, and valid to the end of that month **CASR61.745**

3. **Flight Review requirements;**

- pilot licence must demonstrate competency of part 61 MoS **CASR61.400**
- flight review every 24 months, within 3 months of expiry, and valid to the end of that month **CASR61.745**

4. **Navigating and operating systems;**

not applicable

5. **Normal, abnormal and emergency flight procedures;**

- PoH Section 3 EMERGENCY PROCEDURES
 - Cessna 172R page 67
 - Cessna 172S page 67
- ERSA for radio failure

6. **Operating limitations**

- PoH Section 2 LIMITATIONS
 - Cessna 172R page 39
 - Cessna 172S page 39

7. **Weight and balance limitations**

- PoH Section 6 WEIGHT AND BALANCE/EQUIPMENT LIST
 - Cessna 172R page 177
 - Cessna 172S page 179

8. **Aircraft performance data, including take-off and landing performance data**

- Add 15% to all take-off and landing distances for MTOW $\leq 2000\text{kg}$ **CA020.7.4(6.1)**
- PoH Section 5 PERFORMANCE
 - Cessna 172R page 155
 - * Stall speed(no flap) = 44KIAS
 - * Stall speed(flap 10) = 37KIAS
 - * Stall speed(flap 30) = 33KIAS
 - * Maximum crosswind = 15knot
 - Cessna 172S page 155
 - * Stall speed(no flap) = 48KIAS
 - * Stall speed(flap 10) = 43KIAS
 - * Stall speed(flap 30) = 40KIAS
 - * Maximum crosswind = 15knot

- Short-Field Take-Off for 172S is three tables for different take-off weights, while Short-Field Landing is one table.
- Short-Field Take-Off Distance
 - Cessna 172R page 169
 - Cessna 172S page 155
- Short-Field Landing Distance
 - Cessna 172R page 176
 - Cessna 172S page 178
- Obtain Terminal Area Forecast from NAIPS
 - wind speed and direction
 - QNH
 - temperature

9. Flight planning

- Minimum fuel requirements
 - PiC must take steps to ensure sufficient fuel and oil **CAR1988(234) Fuel requirements**
 - Fixed fuel reserve for VFR, aeroplane, piston-engine: 45 minutes **CAAP 234-1(1) GUIDELINES FOR AIRCRAFT FUEL REQUIREMENTS**

10. Pre-flight actions and procedures

- Required documents to be carried
 - Maintenance Release
 - Pilot Operating Handbook
 - Aviation Medical Certificate
- Maintenance guide for pilots

Documentation

- Cessna 172R manual
 - TABLE OF CONTENTS
 - 1 GENERAL
 - 2 LIMITATIONS
 - 3 EMERGENCY PROCEDURES
 - 4 NORMAL PROCEDURES
 - 5 PERFORMANCE
 - 6 WEIGHT AND BALANCE/EQUIPMENT LIST
 - 7 AIRPLANE AND SYSTEMS DESCRIPTION
 - 8 AIRPLANE HANDLING, SERVICE AND MAINTENANCE
 - 9 SUPPLEMENTS
- Cessna 172S manual

- TABLE OF CONTENTS
- 1 GENERAL
- 2 LIMITATIONS
- 3 EMERGENCY PROCEDURES
- 4 NORMAL PROCEDURES
- 5 PERFORMANCE
- 6 WEIGHT AND BALANCE/EQUIPMENT LIST
- 7 AIRPLANE AND SYSTEMS DESCRIPTION
- 8 AIRPLANE HANDLING, SERVICE AND MAINTENANCE
- 9 SUPPLEMENTS