

notes

Flight Exam Preparation

20180220

FLIGHT TEST REPORT Private Pilot Licence - Aeroplane (Form 61-1488)

GROUND COMPONENT

1. **Underpinning Knowledge required for items 9 to 59**
2. **Privileges and limitations of the private 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**
 - 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.H.1
 - CASR 61.505 Privileges of private pilot licences
 - CASR 61.510 Limitations on exercise of privileges of private pilot licences–multi-crew operations
 - CASR 61.515 Requirements for grant of private pilot licences

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 172N

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. Cessna 172N PoH

- PoH Section 2 LIMITATIONS
 - Cessna 172N
 - * Vne = 160KIAS
 - * Vno = 128KIAS
 - * Va(2300) = 97KIAS
 - * Va(1950) = 89KIAS
 - * Va(1600) = 80KIAS
 - * Vfe(10) = 110KIAS
 - * Vfe(>10) = 85KIAS
 - * Maximum window open = 160KIAS
- PoH Section 3 EMERGENCY PROCEDURES
 - Cessna 172N
 - * EFATO(no flap) = 65KIAS
 - * EFATO(flaps) = 60KIAS
 - * Best Glide = 65KIAS
 - * Prec-search = 60KIAS
 - * Land no power(no flap) = 65KIAS
 - * Land no power (flap) = 60KIAS
 - * S/F TKOF = 59KIAS
 - * S/F LDG = 55-65KIAS
- PoH Section 4 NORMAL PROCEDURES
 - Cessna 172N
 - * Vx = 59KIAS
 - * Vy = 73KIAS
 - * TKOF/LDG demonstrated crosswind = 15KIAS

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
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**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;**
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5. **Normal, abnormal and emergency flight procedures;**
 - PoH Section 3 EMERGENCY PROCEDURES
 - Cessna 172N
6. **Operating limitations**
 - PoH Section 2 LIMITATIONS
 - Cessna 172N
7. **Weight and balance limitations**
 - PoH Section 6 WEIGHT AND BALANCE/EQUIPMENT LIST
 - Cessna 172N
8. **Aircraft performance data, including take-off and landing performance data**

- Add 15% to all take-off and landing distances for MTOW <= 2000kg **CA020.7.4(6.1)**
- PoH Section 5 PERFORMANCE
 - Cessna 172N
- Short-Field Take-Off Distance
- Short-Field Landing Distance
- 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 172N 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 *missing*
 - 9 SUPPLEMENTS *missing*

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