



Recommended format for the PPL ground evaluation

A ground evaluation is required to be conducted in order to ensure that the applicant possesses sufficient applied knowledge for the safe operation of an aircraft.

The applicant is encouraged to prepare him or herself according to the format of this document while using the recommended reference material.

The downloadable AIP documents are extracted from the original AIP volumes available at any ATO.

The SACAA recommend that all Examiners follow the format of this document in order to achieve a uniform standard.

Relevant documentation and reference material

The following documentation and material must be available during the examination:

- WAC Chart
- Pilot Operating Handbook (POH)
- AIP Aerodromes volume
- AIP GEN & ENR volume
- CAR and CAT 61, 67 and 91
- Notams, AIP SUPP and AIC
- Weather report codes summary from SA Weather office
- Weather reports for the day of the flight
- All documentation relevant to the Navigation preparation
- Licence and up-to-date logbook
- Training portfolio

Questions

CAR, CATS

General

- What are your privileges (61.03.5)
- How do you maintain Competency (61.03.7)
- How do you maintain Recency (91.02.4)
- How do maintain your licence current (61.01.5)
- What is the period of validity of your medical certificate (67.00.6)
- State the duties of the holder of a medical certificate (67.00.9)
- What documentation must be carried during flight (91.03.1)
- What Equipment must be carried during flight (91.04)

Visual flight rules (91.06)

- Can a VFR flight be conducted on top of clouds
- What is the required minimum flight visibility and minimum distance from clouds in a CTR
- What is the lowest required cloud base in a CTR for a VFR departure
- What is the required minimum flight visibility and minimum distance from clouds in uncontrolled airspace below 1000 feet AGL
- Under which conditions may a pilot conduct special VFR operations

Minimum heights (91.06.32)

- What is the minimum height to maintain over built-up areas or over an open-air assembly of persons
- What minimum height must be maintained, unless the flight can be made without hazard or nuisance to persons or property on the ground or water
- What is the minimum height to maintain when conducting repeated over-flights over an open-air assembly of persons

AIP

Aerodrome information

- Which runway is uphill in FATZ
- What is the radio frequency allocated to Klerksdorp
- What is the runway length and width in FAGL (Groblersdal)
- Explain the ATC HOO at FAPN (Pilanesberg)
- What type/class of airspace is allocated to FAPN ?
- What are the lateral and vertical boundaries of the airspace allocated to FAPN?
- Explain the customs/immigration HOD and procedures at FAPN

Airspace information

- What are the vertical boundaries of the Durban TMA area D (ENR 2)
- What is the radio frequency for Johannesburg FIR Sector South/West (ENR 2)
- Explain the Johannesburg special rules area (ENR 2)
- Explain Class C airspace (ENR 1)
- Give all essential information about FAR 75 (ENR 5)

Notams

- Explain the differences between Series A, B and C (GEN 3)
- Interpretation of Notams

Sunset and sunrise

- What is the earliest Take-off local time and latest Landing local time for this day (GEN 2)

POH (Can be combined with the Navigation part)

Operating limitations

- What is maximum demonstrated Xwind component
- What is the never exceed speed and explain the significance
- What is the manoeuvring speed and explain the significance
- Explain the lower section of the yellow arc
- Explain the lower section of the green arc
- What is the maximum certified load factor in clean configuration

Operational data (performance)

- What are the stalling speeds in clean configuration and with full flaps
- What would your take-off ground roll distance be at MTOW, ELV 5500' and 35°C OAT on a dry grass runway
- What would your TAS be while maintaining FL 075 and 20°C OAT at 65% HP
- What is the Endurance and Range while maintaining FL 095 and 5°C OAT at 55% HP
- How would you get the maximum range with a specific amount of fuel
- Which speed gives you the best angle of climb (V_x)
- What is the best glide speed

Weight and balance (Can be combined with the Navigation part)

- What is the definition of the basic empty weight of an aircraft
- How many passengers can you take with full fuel and 15 kg of luggage
- How much fuel can be carried with all seats occupied by passengers 85 kg each and 15 kg of luggage.
- State all performance factors affected by an increase of weight
- What is the average mass of a USGAL of fuel

WEATHER REPORTS

- Discuss different methods of getting weather reports
- Read and explain the TAF reports for FACT, FADN and FAJS
- Discuss the significant weather charts
- Discuss the wind chart
- Discuss typical SA weather climatology

NAVIGATION (scrutinise the preparation of the student in the following aspects)

- Selection of the route and waypoints (map preparation)
- Currency of the chart and proper plotting.
- Application of the wind correction
- Accuracy of the track, heading, ground speed, EET etc.
- Selection of radio frequencies
- Selection of Altitude and/or Flight levels
- Fuel calculation
- Completion of flight plan
- Aerodromes information
- Discuss diversion