

Helping you to get your wings

ZUHES AVIATION



ABOUT US

At Zuhes Aviation, we ensure that you not only clear your exams, but also ensure that a flying based approach is used, when you are under training. This will enable you to co-relate, what you read in theory to what you will be doing in an actual aircraft.

Our extended library will help you clear your DGCA, SACAA exams with ease. resources include, Aeroversity, Aviation Exam, Pooley etc.

Our Extensive question bank containing 5000+ questions will ensure adequate practice and mock exams before you apear for the Exams.

SUBJECTS

DGCA:

- · Air Law (Regulations)
- · Aviation Meteorology
- · Air Navigation
- · Aircraft Technical General

SACAA

- · Air Law
- · Meteorology
- · General Navigation
- · Instrument Navigation
- · Radio Navigation
- · Human Performance
- Flight Planning and Performance
- · Aircraft Technical General
- · Instrument Rating
- · General Radio
- · Night Rating.

All study material, will be provided to the students on enrollment. When choosing to fly in South Africa, students can be trained for SACAA papers too.





Flying in South Africa

With lots of designated general flying areas, and open skies (Uncontrolled), South Africa is the choice, that must be considered when choosing to fly out of India. It is fast, robust, and cost effective.

The SACAA, is committed to, continued support to students, enrolling in their country for CPL, through Part 141. With the right flying club, and a good instructor, finishing your South African CPL is a breeze away.

Commercial Pilot License Requirements

Educational Requirements: 10 +2 (with physics and mathematics)

Exams: Clear 5 Indian DGCA Exams if planning to fly in India, or 3 papers when flying overseas. Exams are conducted every month by DGCA.

Medical fitness: Must Possess a Valid Class I medical fitness cetrificate.

Flying:

- · 200 hrs in Total.
- · Of which 100 hrs as Pilot-in-command (Solo).
- If multi engine required, 10 hrs of Multi (DGCA requirement) or 15 hrs of Multi (Airbus requirement), can be a part of your 200 hrs.
- If Instument Rating required 40 hrs of IF required, of which 20 hrs maximum can be on a approved simulator.
- A 300 nautical mile flight with 2 full stop landings, apart from the aerodrome of deprture.
- · 50 Hrs of cross country flights as PIC

Other requirements: RTR and FRTOL.

Regulations

Week 1

Day 1	International	Conventions,	C of A,	CofR
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Day 2 Rules of Air - I

Day 3 Rules of Air - II

Day 4 PANS Ops - I

Day 5 Pans Ops - II

Week 2

Day 1 Exam on	Prev week sub	ject, Discussion on E	xam Quest
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Day 2 Air Traffic Services

Day 3 Area Control Service

Day 4 Approach Control Service

Day 5 Aerodrome Control Service

Week 3

Day 1 Exam on Prev week subject, Dis	cussion on Exam Quest
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Day 2 Lighting Systems

Day 3 Customs and Facilitation, Search and Rescue

Day 4 Accidents and Incidents, Unlawful interference

Day 5 Communication

Week 4

Day 1	Exam on P	rev week sub	ject, Discussion on E	Exam Ques
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Day 2 Human Performance - I

Day 3 Human Performance - II

Day 4 Indian Laws (Aircraft Rules, Aircraft Act), AIP, AIC

Day 5 Personnel Licensing.



Regulations

Week 5

Day 1 Exam on Prev week subject, Discussion on Exam Quest

Day 2 Operational Procedures - I

Day 3 Operational Procedures - II

Day 4 Revision Exam - I

Day 5 Revision Exam - II

Week 6

Day 1 Revision Exam - III

Day 2 Revision Exam - IV

Day 3 Revision Exam - V

Course Notes by For regulation will be sent to you.

Revision Exams will be 50 Questions with duration of 60 mins, to get yourself used to DGCA Exams

Payments in Installments is not applicable

Duration: 6 Weeks (1.5 to 2 Hrs/Day)





Meteorology

Week 1

Introduction of Earth, Atmosphere, ISA, JSA Day 1 Atmospheric Pressure, Altimeter, Altimetry Day 2 Temperature: C, F and K scale, Di-urinal Variation Day 3 Density and Humidity. Relationship btw T, P and D Day 4 Exam on the Prev 4 Days session and Discussion.

Week 2

Day 5

Day 1 Winds, Pressure Systems, Coriolis, Geostrophic Winds Clouds, Visibility and Fog Day 2 Stable and Unstable Atmosphere. SLR, ELR, DALR Day 3 Optical Phenomena, Halo, Rainbow, Elmo's Fire Day 4 Rain and Precipitation and Thunderstroms Day 5

Week 3

Exam on Previous week topics and discussion Day 1 Fronts: Warm, Cold and Occluded. Air Masses Day 2 Clear Air Turbulence, Jet Streams Day 3 Mountain Waves, General Circulation Day 4 Exam on last three days topics and Discussion. Day 5

Week 4

Day 1	Indian Climatology
Day 2	Exam on Indian Climatology
Day 3	Weather Reports, METAR, TAF, SIGMET, Station Charts
Day 4	Intro in Weather Radar
Day 5	Exam on Weather Reports



Meteorology

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Week 5

Day 5

Revision Exam I Day 1 Revision Exam II Day 2 Revision Exam III Day 3 **Revision Exam IV** Day 4 **Revision Exam V**

Course Notes by Zuhes for meteorology will be sent to you.

You will write 5 weekly exams and 5 Revision Exams. In total 10 Examinations, Revision Exams are 50 Questions for 60 mins.

Focus will be given on Indian Climatology and Weather Report decoding as this will be used in day today flying.

Payments in Installments is not applicable

Duration: 5 Weeks (1.5 to 2 Hrs/Day)

Week 1 - General Nav

Day 1 The Earth, Latitude, Longitude, Dire	ections
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Day 2 Circles (Great Circle, Small Circle), Dlong and Dlat

Day 3 Calculating Dlong and Dlat (Various Problems)

Day 4 Exam on Dlong and Dlat. and Discussion

Day 5 Departure and Problems on Departure

Week 2 - General Nav

Day 1 Exam on Departure and D

Day 2 GCT, RLT, Convergency and Conversion Angle

Day 3 Problems on Convergency

Day 4 Exam on Convergency and Conversion Angle

Day 5 Earth Magnetism, True vs Magnetic vs Compass Direction

Week 3 - General Nav

D 1	Calau Cuatana	Manhaula Laure	Position of Sun
Davi	Solar System	Kenierstaw	Position of Sun

Day 2 Time: LMT, GMT, ST and ST

Day 3 Time Calculation incl IDL calculations

Day 4 Exam on Magnetism, Time and Solar System.

Day 5 Triangle of Velocities (Air Vector, Ground Vector and

Wind Vector)

Week 4 - General Nav

Day 1 Triangle of Velocities - II

Day 2 Triangle of Velocities - III

Day 3 Exam on Triangle if Velocities

Day 4 Track error (1:60 rule) and Applications.

Day 5 Revision Exam - I (From the Begining) & Discussion



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Week 5 - General Nav

Day 1	Scales a	and Char	t Theory

Day 2 Cylindrical and Mercator Projection Properties

Day 3 Conical and Lamberts Projection and Properties

Day 4 Polar Stereographic, Transverse & Oblique Mercator

Day 5 Exam on Scale and Chart Theory

Week 6 - General Nav

Day 1	Critical	Point	(CP)	Equal	Time Point	(ETP)
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Day 2 Point of No Return (PNR) / Point of safe Return (PSR)

Day 3 Problems on CP and PNR

Day 4 Revision Exam - II (General Nav)

Day 5 Revision Exam - III (General Nav)

Week 7 - Instrument Nav

Day 1	Atmosphere,	Temp	measurement ((RAT	TAT,	,SAT	١
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Day 2 Atmospheric Pressure, Static and Pitot System, Errors

Day 3 Altimeter construction, Altimetry, QNH, QFE, QNE, QFF

Day 4 Errors in Altimeter, PA, DA, TA

Day 5 Vertical Speed Indicator (VSI) Construction and Errors

Week 8 - Instrument Nav

- Day 1 Air Speed Indicator Construction and Errors
- Day 2 Mach, Local Speed of Sound, Mach Meter and Errors
- Day 3 Relationship between RAS, TAS and Mach No.
- Day 4 Exams for Week 7 and 8
- Day 5 Earth and Aircraft Magnetism



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Week 9 - Instrument Nav

Day 1	Compass	working	and Errors	associated	with it

Day 2 Gyroscope - Theory (Rigidity, Precession, Gimbals)

Day 3 Direction Indicator And Errors

Day 4 Turn and Slip Indicator and Turn Co-Ordinator

Day 5 Attitude Indicator / Artificial Horizon

Week 10 - Instrument Nav

Day 1 Exam on Week 8 to 9

Day 2 Revision Exam - IV (Instrument Nav)

Day 3 Revision Exam - V (Instrument Nav)

Day 4 Air Data Computer, Intro on FMS, RLG, INS and IRS

Day 5 Revision Exam - VI (Gen and Inst Nav)

Week 11 - Radio Nav

Day 1 Radio Wave theory, Propagation,

Day 2 NDB and AFD

Day 3 Problems with regards to NDB and ADF

Day 4 VOR Theory, Cone of Confusion, CDI

Day 5 Radial Interception with VOR

Week 12 - Radio Nav

Day 1 RMI, HSI

Day 2 Exam on Week 11

Day 3 Radar Basics

Day 4 Ground Radar, Airborne Weather Radar

Day 5 Secondary Surveillance Radar (SSR)



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Week 13 - Radio Nav

Day 1 Revision VII - (Radio Navigation Complete)

Day 2 Plotting on Mercator and Lamberts

Day 3 Revision VIII - (Complete Nav)

Day 4 Revision IX - (Complete Nav)

Day 5 Revision X - (Complete Nav)

Course Notes by Zuhes for Navigation will be sent to you one by one. i.e First General Nav, Followed by Instrument Nav and then Radio Nav.

You will write 10 weekly exams and 10 Revision Exams. In total 20 Examinations.

Focus will be given equally on sums and theory as, questions in examination comprises on both.

Payments in 2 Equal Installments can be done. 2nd payment must be done on completion of General Navigation

Books and consecutive chapters will be taken only on the payment of the final installment.

Duration: 13 Weeks (1.5 to 2 Hrs/Day)



SA-CAA

Week 1

Day 1 Air Law - CAR Part 61

Day 2 Air Law - CAR Part 12,43

Day 3 Air Law - CAR Part 67

Day 4 Air Law - CAR Part 91

Day 5 Air Law - CAR Part 92, 93, 121, 135,

Week 2

Day 1 Air Law - Enroute Sections

Day 2 Air Law - Revision on Indian Air law w.r.t SACAA

Day 3 General Nav - Plotting Basics

Day 4 Instruments - EFIS, FD, Autopilot

Day 5 Instruments - Stall Warning, Powerplant Instruments

Week 3

Day 1 Meteorology - Local Winds

Day 2 Meteorology - South African Climatology

Day 3 Radio Nav - RNAV / GPS

Day 4 ATG - Fuselage / Windows / Wings / Landing Gears

Day 5 ATG - Hydraulics

Week 4

Day 1 ATG - Air Driven Systems (Pneumatic Systems)

Day 2 ATG - Fuel System

Day 3 ATG - Piston Engines 1

Day 4 ATG - Piston Engines 2

Day 5 ATG - Turbines 1



SA-CAA

(Cont....)

Week 5

Day 1 ATG - Turbines 2

Day 2 POF - Subsonic Aerodynamics / Lift

Day 3 POF - Drag / Types of Drag

Day 4 POF - Thrust / Flying controls / Effect of Controls

Day 5 POF - Trim / Control Balancing / Adverse Yaw

Week 6

Day 1 POF - Lift Augmentation Devices

Day 2 POF - Stall / Spin / Spital

Day 3 POF - Stability / S&L / Turns / Climb / Descend

Day 4 FPL - Graphs and Plotting

Day 5 FPL - Tables and Correlation

Week 7

Day 1 FPL - M & B - Floor Loading

Day 2 FPL - M & B - Shifting of mass

Day 3 IR Air Law - Recap

Day 4 IR AWOPS - Recap

Day 5 IR PANS OPS - Doc 8168



Course Fee Structure

Ground Classes

The fee structure for the ground classes are as follows

- Air Law INR 40,000
- Meteorology INR 40,000
- Navigation INR 60,000
- · Aircraft Technical (General) INR 40,000
- SACAA Papers Breifing INR 40,000

Flying

The cost of flying in South Africa is dependent or various factors such as

- How soon the student finishes his ground papers.
- How long does the student rakes to finish his dual flying.
- · Any extra simulator sessions
- Any extra dual sessions
- · The duration of stay in South Africa
- The variying cost of living, considering the inflation.

As an Approximation, the total cost of getting your CPL from South Africa, including Accommodation would be 32,00,000 to 35,00,000 INR (Depending on the above mentioned factors)

The actual quote for the current scenario shall be proivided to the student, when he wishes to enroll in our program.

Further, you are informed that, you must fly in India for a certain Hours (Appx 8 Hrs) in India, within a period of 6 months of you finishing your CPL check flight in South Africa. This conversion flying shall cost you a further 2,00,000 INR appx.



How to get in touch?

Feel free to call us or WhatsApp us anytime you have a query. We are available at



We are also active on the Instagram's social media Channel, where you get recent updated on the happening in our company, updates on the aviation industry, and some fun facts. Follow us

@zuhesaviation

If you need to read a blog, or need to share our details to someone, or if you need to log in to your exam corner, after you have enrolled with us, feel free to visit



If you feel the need to email us, or if any email is received from us, it will be through



