



THE JOINT AVIATION AWARENESS PROGRAMME (JAAP)

The Joint Aviation Awareness Programme (JAAP) is a state initiated entity that brings together aviation role players to pursue and achieve transformation of the aviation industry by ensuring that previously disadvantaged youth have access and play a part in initiatives aimed at education, awareness and career development.

Organisations that form part of JAAP are:

1. Airports Company South Africa
2. Air Traffic and Navigation Services (ATNS);
3. Department of Transport;
4. South African Air Force;
5. South African Airways;
6. South African Civil Aviation Authority (SACAA) and
7. South African Police Services Air Wing

VISION

“We are committed to excellence-driven transformation by bringing awareness and accessibility of the aviation industry to the people”

MISSION STATEMENT

JAAP is a state initiated entity that brings together aviation role players to pursue and achieve transformation of the aviation industry by ensuring that the previously disadvantaged youth have access and play an active part.

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INTRODUCTION TO AVIATION

Aviation plays a major role in the world's economies, not only in transport but in many other fields, it brings people together from all the corners of the globe and has been reaching into space for almost a century. Civil aviation in this country is regulated by the South African Civil Aviation Authority (SACAA). Aviation, or the aerospace industry, may be divided broadly into:

- Flight operations;
- Airport management;
- Air traffic and navigation services;
- Aviation maintenance and repair;
- Passenger and freight services;
- Ground handling and emergency services;
- Weather services;
- Design and construction;
- Aviation law;
- Communication;
- Legislation and enforcement;
- Aviation administration;
- Ancillary services;
- Aviation safety;
- Miscellaneous functions;
- Aviation Medicine

A-Z OF CAREERS IN AVIATION

Aeronautical Engineer: He or she develops, designs and tests aircraft, missiles, satellites and other systems.

Air Cargo Agent: It is this person's job to supervise the cargo terminal, record air freight shipments, and arrange for deliveries.

Air Cargo / Baggage Handler: He or she loads and unloads cargo and baggage, drives baggage tractors, and operates conveyors, forklifts, and other air freight handling equipment.

Aircraft assembler: He or she assembles, fits and installs pre-fabricated parts to manufacture fixed wing or rotary wing aircraft or aircraft sub-assemblies. Aircraft assembly inspectors inspect aircraft assemblies for adherence to engineering specifications. They are employed by aircraft and aircraft sub-assembly manufacturers. This may also include the manufacturing of all components on the aircraft.

Aircraft Composite Structures Worker: With the advancement of technology in modern aircraft materials such as graphite and Kevlar fibers, this trade has become a very interesting and challenging trade. The Technician in this trade is responsible for the maintenance, repair and manufacture of plastic, fiberglass and honeycomb structure components such as flight controls (flaps, spoilers, elevators) nose radomes and various other honeycomb construction components. Training includes:

- Fiberglass skin repairs.
- Metal skin repairs.
- Rework of aircraft windows.
- Hot bond repairs.

Aircraft Electroplater: This trade entails the plating of a thin protective layer on aircraft parts by means of electrochemical processes. Various metals are plated e.g. chromium, nickel, silver, lead-tin, copper, cadmium. These metals are used as protection against corrosion and to reconstruct worn parts to their original standards and dimensions. They also use special processes for aluminum and magnesium to treat against corrosion. Training includes the following:

- Laboratory analysis as all electroplating solutions are prepared and tested in our own facilities.
- Principles of electrochemistry and electricity.
- Surface treatment of different metals.

Aircraft Maintenance Engineers (AMEs): He or she diagnoses, adjusts, repairs, replaces or overhauls aircraft engines and assemblies, such as hydraulic and pneumatic systems, wings and fuselage, and functional components including rigging, surface controls, and plumbing to ensure airworthiness. This career field consists of the following:

- Aircraft Electrician:** The satisfactory performance of any modern aircraft depends to a very great degree on the continuing reliability of all electrical and systems. The Aircraft Electrician must be able to diagnose faults on the electrical systems, to carry out periodic inspections, maintain, repair and overhaul all electrical

components. The Aircraft Electrician is furthermore responsible for the repair and installation of all electrical components, as well as the wiring of the aircraft, to ensure proper power supply to all systems.

Workshop Technicians in this trade overhauls, repairs and tests electronic equipment such as generators, AC and DC powers controls, temperature control and air conditioning units and various other electrical / electronic components.

Maintenance Technicians are responsible for the maintenance, removal and replacement of components, testing and troubleshooting of systems such as air conditioning, galleys, power generation and distribution, aircraft lighting, wiring etc.

Aircraft Instrument Mechanic: The Aircraft Instrument Mechanic is actually an electronic instrument mechanic. A person with a steady hand is required for repairs, as they work with delicate and sensitive equipment. Measuring and testing equipment are used for the tracing of circuits and the measuring of circuit values. The Aircraft Instrument Mechanic is trained to repair, test and install navigational and flying instruments, such as the automatic pilot and electronic compasses. The formal training course includes principles of electricity, magnetic and electromagnetic principles, the theory of aircraft instruments and electronics.

Workshop Technicians in this trade must have a fine eye – hand coordination and are trained to overhaul and calibrate mechanical, analogue, digital and electronic instruments. Data Computers and various electronic units are also tested and repaired.

Maintenance Technicians are responsible for the maintenance, removal and replacement of components, testing and troubleshooting of various instrument systems such as pilot static, sensors, quantity and flow indication, engine indication, etc.

Aircraft Radiotrician: This person's responsibility is to carry out maintenance of all communication equipment of the aircraft. To check, repair and test all radio equipment, the aircraft radiotrician uses overhaul manuals as a guide to construct all basic aircraft systems applicable to the trade. After repair and the necessary tests, he is responsible for the installation of radio equipment on the aircraft.

In this trade the Technician in the workshop tests, repairs and overhauls communication equipment, aircraft navigation equipment and electronic control systems, as well as test instruments which are used in workshops.

Maintenance Technicians are responsible for the maintenance, removal and replacement of components, testing and troubleshooting of various systems such as communication, electronic control, radar, satellite communication, etc.

Aircraft Mechanic: Workshop Technicians in this trade is responsible for the overhaul and repair of various aircraft components such as fuel control units, pneumatic and hydraulic components, landing gear, wheels, brakes, pumps etc.

Maintenance Technicians tasks includes the repair, removal and replacement of components, testing and troubleshooting of systems such as engine, air conditioning, landing gear, flight controls, etc.

Aircraft Painter: Technicians in this trade is responsible for the protective and decorative finishing of the aircraft, its engines and components. Highly sophisticated spray-painting equipment as well as high technology paints and resins are used. Although spray-painting covers the largest facet of trade, sign writing and silk screening printing forms an equally part of his trade. Training includes:

- Mixing of colors
- Multi spray systems
- Aircraft paint application
- Stencils, transfers, pounces, etc.

Aircraft Structures Worker: The Aircraft Structures Worker is mainly responsible for the maintenance, repair, overhaul, manufacturing and modification of the aircraft structure and its components. This involves crimping and forming of metal sections, testing and manufacturing of solid and flexible tubing, shot peening and treatment of corrosion. Equipment such as guillotines, bending machines, crimping machines, drilling machines etc. is some of the equipment used in this trade. Training includes riveting, bending, manufacturing and repairing.

Aircraft Trimmer: The comfort of passengers is as important as their safety and for this reason the aircraft interior must be of the highest standard. This trade is responsible for the manufacturing, maintenance and repair of interior components such as fabric covered panels, carpets, curtains and seat covers. Survival equipment such as slide rafts and life vests used on aircraft are regularly serviced and repaired if necessary. Training includes the following:

- Leather work practices
- Aircraft insulation blanket practices
- Sewing machine practices
- Maintenance of survival equipment

Aircraft Welder: This Technician is responsible for the repairing of aircraft components. The following welding processes and advanced technologies are applied: oxy-acetylene welding, arc welding, shielded metal-arc welding, gas metal-arc welding, gas tungsten-arc welding, heat treatment of ferrous, non-ferrous and special aircraft alloys, plasma and metal spraying processes.

During his training this Technician must obtain a certificate of competence, which will allow him or her to weld on aircraft material. This certificate is issued by the Commissioner for Civil Aviation (CAA). Training in this trade includes the welding of aluminum, magnesium, stainless steel and titanium.

Aircraft Structures Worker: Aircraft Structures Workers are trained to mark off, develop, manufacture and maintain airframes and engine components and parts. The formal training course includes basic fitting and workshop practice; sheet metal works, including the development, flex and repair of stressed skin; design and manufacture of components and modifications as laid down from time to time. An interest in technical drawing as well as metallurgy plays an important role.

Aircraft Welder

Although the apprentice is initially trained under the auspices of the Aerospace Industry Education & Training Board, the final touches to his training is provided by Denel Training Academy in order that he or she may receive approval as an aircraft welder from the SA Civil Aviation Authority.

Airline Station Manager: The station manager is in charge of all ground and flight operations for his/her airline. These responsibilities could include aircraft handling, passenger services, air cargo operations, ticket sales, making public announcements, checking baggage, or operating computer terminals depending upon the size of the airline or airport.

Airport Planner: It is this person's job to plan and design airport facilities. It is also his or her role to create a master plan for the airport, noting the increasing demands of passengers and the airline services.

Airport Manager: Airports need to be efficiently run by trained staff. Depending on its size, managing an airport can be a most demanding job, involving many disciplines. The duties of an Airport Manager involve the management and co-ordination of the complete Airport including, amongst others: Safety, Fire and Rescue, Maintenance and Engineering, Customer Relations, Airside and Landside Management.

Air Traffic Controller: An air traffic controller's job includes tower control, which handles all aircraft movements, take-offs and landings, while approach control monitors approaching and departing traffic, en route control and information and advisory services.

Aviation Law: This is a highly specialised aspect of the law, and is very much internationally orientated. Very few people in South Africa have qualified in this field. It is recommended that you contact universities for more information.

Aviation Medicine: This is a highly specialised field of medicine. A course in this field is offered by the Institute for Aviation Medicine. Aviation physicians are employed mainly by the SAAF and by some of the larger aviation companies. However, a number of general practitioners also take the course, to be in a better position to deal with patients transported by air, or to carry out the required medical examinations for the issue and renewal of personnel licenses.

Aviation Safety Specialist: Safety is crucial to aviation, and this subject is part of all aviation training, with emphasis on preventive measures, standardisation and strict discipline. Aviation safety specialists report incidents and accidents and ensure that their causes are made widely known to all that could benefit by the knowledge. Designs, construction and practices are reviewed constantly, and new findings and techniques are incorporated.

Aviation Turner and Machinist: The Technician in this trade is responsible for the modifications, repair and manufacture of aircraft parts. The manufacture of special tools and jigs is also part of this trade. Equipment such as center lathes, milling machines, grinders, horizontal and vertical boring machines are generally used. A very high standard of accuracy is required and maintained. Training in this trade includes:

- Machining of screw heads
- Machining tapers
- Machining of gears on a milling machine
- Grinding of internal and external surfaces

Cabin Crew / Flight Attendant: He or she checks passengers' names and destinations, enforces safety rules, serves food, oversees passengers' comfort, and directs evacuation procedures in the case of an emergency.

Co-pilot: The co-pilot assists the pilot in the operation of the flight controls, watches the instruments and weather, handles radio communications, and keeps logs.

Electronics Mechanician: The Electronics Mechanician is required to repair and maintain electronic as well as mechanical aspects of various equipment. This equipment may be any of the following: CNC and NC machines; logic and micro-processors; PLC systems; AC and DC drives; synchro and servomechanisms; and others. This is not a specific aerospace trade; Electronics Mechanicians are also found in other industries.

Electromechanic: The electromechanic maintains teletype equipment, landing lights, beacons, and stand-by generators.

Electronics Maintenance Technician: This person maintains navigational aids and communication equipment, such as radar and radio beacons.

Fitter and Turner: The fitter and turner is trained to manufacture parts and aircraft components. His/her training consists of fitting and machine work such as grinding, milling, turning and shaping. Another important part of his training is the cutting of "V" type and square threads. To be able to manufacture parts and components to very small tolerances a high standard must be obtained.

Flight Dispatcher: The flight dispatcher works the with the pilot planning flight requirements (fuel consumption, altitudes, traffic flow, weather, winds aloft) authorizes take-offs or cancels flights, and advises pilots in the air on weather or route changes. They frequently work under pressure in a noisy, busy atmosphere surrounded by other airport workers, teletype machines, telephones, and intercom systems. They use computers, calculators, weather charts, and loading reports, sometimes also doing the job of a meteorologist or schedule coordinator. Experience as a flight dispatcher could lead to promotions to air traffic controller or airport manager. The job requires a college degree with a major in air transportation or meteorology.

Flight Engineer: The flight engineer monitors the in-flight operation of the engines and aircraft's mechanical and electrical systems.

Flight Instructor: This pilot teaches student pilots how to fly. They demonstrate and explain, on the ground and in the air, basic principles of flight, aerial navigation, weather factors, and civil aviation regulations.

Flight Simulator Instructor: This person trains pilots and checks their skills, using a flight simulator.

Flight Line Mechanic: The airplane is prepared for test flight after final assembly by the flight line mechanic

Ground Handling and Emergency Services: When on the ground, aircraft need to be moved around, refuelled, cleaned and so on. Also, emergency services such as airport rescue and fire-fighting teams have to be available at all times to react to emergencies. Paramedics and fire-fighters are employed by these services and further information about them can be obtained from the Airports Company (ground handling), and the aviation departments of the major oil companies (aircraft refuelling)

Helicopter Pilot: These pilots can make flights to otherwise inaccessible areas.

Loadmaster: He or she supervises proper tie-down procedures of cargo and calculates weight distribution of the load.

Meteorologist: He or she analyzes weather data and makes weather reports to the pilot and dispatcher. He or she may also work with the flight dispatcher preparing flight plans.

Navigator: The navigator plots the course, reports positions, and estimates arrival time.

Operations Agent: The operations agent oversees the loading and unloading of the aircraft and checks the distribution of the aircraft load and fuel.

Radartrician: Radar systems are used in aircraft as well as on the ground. The radartrician is responsible for this equipment in the aircraft. Repair manuals serve as guidelines for the construction of all basic systems on and in the aircraft, and further responsibilities are the routine maintenance, fault diagnoses and repair of radar equipment. The formal training course includes principles of electricity, electronics, digital techniques, radar transmitters, receivers microwave techniques and aerials.

Reservations Clerk: This clerk handles telephone inquiries about flight schedules and fares and makes flight reservations for airline passengers. They usually work in large central offices with access to telephones and computer terminals.

Ticket Agent: The ticket agent sells tickets, weighs and tags baggage, and answers questions on schedules and fares.

Travel Agent: The travel agent promotes airline travel, calls on customers, and arranges charter flights.



AIRPORTS COMPANY SOUTH AFRICA (ACSA)

ACSA was formed in 1993 to own and operate South Africa's nine principal airports, including the three international gateways, OR Tambo, Cape Town and Durban. In 1998, ACSA added Pilanesberg International Airport to its network when it was awarded a 30 year concession to manage this tourism destination airport.

CAREERS OFFERED BY ACSA

AIRPORT FIRE FIGHTER

Responsibilities

- Handle the fully automated tower and attend to emergencies timeously
- Relay correct information to necessary departments
- Accurately keep record of all information and activities during emergencies
- Monitor the landing and take-off of all aircraft
- Driver or handler on fire tenders during emergencies
- Save lives and protect property
- Apply ICAO recommendations

Requirements

- A pass in Grade 12
- Literacy & Numeracy
- English proficiency
- Fire Fighter 2 qualification

AVIATION SECURITY OFFICER

Responsibilities

- Processing of passengers, permit holders, crew and hand luggage.
- Ensuring that all relevant regulations, policies and procedures are adhered to in the processing of passengers.
- Participate in crime prevention and management strategy by actively combating all criminally inclined acts in and around the security checkpoints at the airport.
- Ensuring that ICAO/ CAA/ACSA standards are complied with i.e. proper control of dangerous items, weapons, firearms and ammunition, etc.
- Ensure the effective security of the airport infrastructure.

Requirements

- A pass in Grade 12
- Literacy & Numeracy
- English proficiency

AIRPORT USER AGENT

Responsibilities

- Provide accurate flight information to clients
- Handle telephonic queries
- Handle customer queries at the information counter
- Make clear announcements over the PA system

Requirements

- A pass in Grade 12
- Literacy & Numeracy
- English proficiency

AIRPORT SERVICE AGENT

Responsibilities

- Capturing of flight information in operating systems
- Handling telephonic queries
- Capturing complaints and comment cards to the Infox movement database
- Providing job sheets to contractors
- Monitoring specific infrastructure systems
- Making announcements and ensuring correct flight displays in the terminal
- Emergency call out procedures

Requirements

- A pass in Grade 12
- Literacy & Numeracy
- English proficiency

CONTACT DETAILS

Telephone: 011 723 1400
011 921 6242

Address: Airports Company South Africa
PO Box 75480
Gardenview
2047

Website: www.airports.co.za



AIR TRAFFIC AND NAVIGATION SERVICES (ATNS)

ATNS, the Air Traffic and Navigation Services Company of South Africa, provides an advanced air traffic management service for users operating within the designated South African airspace, implements and maintains a reliable navigation infrastructure; as well as provides air traffic management and technical training to both local and international delegates through our Aviation Training Academy.

CAREERS OFFERED BY ATNS

AIR TRAFFIC CONTROL

The volume and complexity of today's air traffic requires skillful control by highly trained staff. This includes tower control, which handles all aircraft ground movements, take offs and landings, while approach/radar control monitors approaching and departing traffic and area control and information advisory services monitor the traffic that is en-route.

At the airport, control is largely visual, but in all most instances, radar and other electronic equipment play a major role. The controller is in constant communication with pilots and his job is of paramount importance in preventing collisions and ensuring an organised flow of air traffic. He works under an enormous amount of pressure.

You will need;

- a mathematical mind
- the ability to visualise a three-dimensional picture from two-dimensional information
- a strong sense of responsibility
- ability to work under constant pressure
- a manner that inspires confidence and calmness
- ability to stay alert
- good eyesight and hearing

Entry requirements

- Grade 12 with Mathematics and English at HG symbol D or SG symbol C (level 4 for Maths and English)
- Preferably be older than 18
- Pass a medical examination and various aptitude assessments.

Training

ATNS, which is responsible for all the Air Traffic Services (ATS) in South Africa, runs its own training college at the Aviation Training Academy (ATA). The Company offers Bursaries for students to complete training towards becoming Air Traffic Controllers (ATC's) and also Air Traffic Services Assistants (ATSA's).

As a Bursar, you will be given an intensive theoretical training at the ATA and then will continue with training on the job. Should you be selected to train as an ATC, you will then, after successful completion of the initial programs, return to the ATA for more courses in aerodrome control course, after which, if successful, you will be required to validate at any of the 21 stations around the country, as a tower controller and be issued with a Air Traffic Controller's License.

An opportunity would later exist for successful aerodrome controllers to be trained further in approach/radar or area control disciplines to become Principal ATC's.

Other Careers:

AIR TRAFFIC SERVICES ASSISTANT (ATSA)

An ATSA performs a support function to an Air Traffic Controller and is an important member of the team who ensures the safe, orderly and expeditious travel by air of millions of passengers per annum.

ENGINEERING TECHNICIANS

ATNS offers learnerships to candidates who are interested in becoming Engineering technicians. The learnership provides each successful candidate with an opportunity to gain the necessary theoretical and practical experience in communication, navigation and surveillance equipment.

Learners who successfully complete their learnership year, may be further offered the opportunity to gain practical experience at the ATNS facility in Durban. Learners wishing to apply must have attained their S4 qualification.

Interested candidates should forward their CV's, together with a motivation letter, copy of Grade 12 results and ID copy to:

Recruitment office
ATNS
Private Bag X 15
Kempton Park
1620.

Website : www.atns.com

Send a free SMS enquiry to 32188, JAAP as reference name and the enquiry.



transport

Department:
Transport
REPUBLIC OF SOUTH AFRICA

DEPARTMENT OF TRANSPORT (DOT)

The Department of Transport is responsible for all modes of transportation in The Republic of South Africa; i.e. Aviation, Rail, Road and Maritime.

The Department of Transport is also the custodian of legislation governing these transportation mediums, and in particular, the Aviation Industry in line with the International best practices/ standards.

Overview of the Department of Transport

- By providing fully integrated transport operations and infrastructure, the Department of Transport is responsible for maximising the contribution of transport to economic and social development goals of society.
- It ensures sustainable and efficient movement of people and goods by means of a transport system that responds to the demands and challenges of the economic growth internally and externally.

CONTACT DETAILS

Telephone: (012) 309-3848
(012) 309 3760
(012) 309 3194
(012) 309 3039
(012) 309 3285

Address: Private Bag X193
Pretoria
0001

Forum Building
159 Cnr Struben and Bosman Streets
Pretoria

Website: www.transport.gov.za



SOUTH AFRICAN AIR FORCE (SAAF)

CAREERS OFFERED BY SAAF

PILOT & NAVIGATOR TRAINING

Requirements

- Currently doing or successfully completed Grade 12 with English as a passed subject
- Pure Mathematics HG symbol D or SG symbol C
- Physical Science HG symbol D or SG symbol C
- Candidates with N4 Mathematics and Physical Science must have passed with 60% or higher
- Candidates with N5/6 or first year university of Technology must have passed with 50% or higher

ENGINEERING

- Aeronautical Engineering
- Electronic Engineering
- Industrial Engineering
- Mechanical Engineering

Requirements

- Currently doing or successfully completed Grade 12 with English as a passed subject
- Pure Mathematics HG symbol C or SG B
- Physical Science HG symbol C or SG B
- Candidates with N4 Mathematics and Physical Science must have passed with 60% or higher
- Candidates with N5/6 or first year university of Technology must have passed with 50% or higher

Please note: Mathematics Literacy will not be considered

Further to the above requirements you must :

- be a South African citizen (Relinquish any other citizenship you may have)
- be between 18-24 years of age
- be single when applying and remain single for the duration of training
- not have a criminal record
- be willing to relocate and participate in deployment both in SA and abroad, if required to do so
- comply with medical fitness requirements
- have 6/6 eye vision without correction (no spectacles, laser correction or contact lenses)
- not have any hearing impairments (must not make use of hearing aids)

CONTACT DETAILS

Telephone: 012-3395392/5
012-3395825

Address: Department of Defence
Chief Directorate HR Management
Directorate HR Acquisition
Private Bag x281
Pretoria
0001

Email: dpersacq@yahoo.com



SOUTH AFRICAN AIRWAYS (SAA)

CAREERS OFFERED BY SAA

SAA CADET PILOT TRAINING PROGRAMME

To be considered for this two-year training programme, you need to meet the following minimum requirements:

Requirements

Applicants should

- be South African citizens with a passion for flying;
- be medically fit;
- be at least 1.6 metres tall;
- pass a security check;
- have good communication skills;
- have good hand-eye coordination;
- be preferably up to 25 years of age;
- be highly motivated;
- have the ability to work under pressure;
- have multi-tasking ability, confidence and assertiveness, good judgement and decision making skills and
- have excellent problem solving ability

Previous flying experience is not a prerequisite. If you have flying experience, you should not have more than 60 flying hours.

Academic requirements:

- Matric certificate/Grade 12/N3 or relevant qualifications (SAQA accredited)
- Compulsory Mathematics or Statistics 101 (D symbol on higher grade or C symbol on standard grade)
- English (D symbol on higher grade or C symbol on standard grade) and
- Physical Science or Computer Science (D symbol on higher grade or C symbol on standard grade).

Should you meet the aforementioned criteria, send your CV, together with certified copies of:

- ID document matric results other tertiary qualification (if applicable)
- a high quality full-length photograph of yourself
- a one-page motivation in your own handwriting telling us why you want to become a pilot (this must be an independent effort).

Applicants will go through the following selection process:

- pre-screening on application
- psychometric testing flight grading (SAA Aircrew Selection System)
- medical examination
- assessment and clinical interview
- panel interview.

CABIN CREW / FLIGHT ATTENDANT

Key Requirements:

Applicants should

- be outgoing South African citizen;
- be medically fit;
- be at least 1.58 metres tall;
- pass a security check;
- have good communication skills;
- have good hand-eye coordination;
- be preferably up to 25 years of age;
- be highly motivated;
- have the ability to work under pressure;

CONTACT DETAILS

Telephone: 011 978 3353 / 2643

Address: Cadet Pilot Selections
Private Bag x13
O R Tambo International Airport
1627

SAA TECHNICAL

1. Aircraft Mechanic
2. Aircraft Electrician
3. Aircraft Instrument Mechanic
4. Aircraft Radiotrician
5. Aircraft Structures Worker
6. Aircraft Welder
7. Aviation Turner and Machinist

8. Aircraft Painter
9. Aircraft Trimmer
10. Aircraft Electroplater
11. Aircraft Composite Structures Worker

TECHNICAL TRAINING

Students are trained by qualified Senior Instructors, each a specialist in his / her field in our training center based at OR Tambo International Airport. Training programmes are based on the Competency Based Modular Training (CBMT) philosophy and SAT has become one of the leaders to develop this methodology. For each course, a course map indicating the objective and the numbers of modules is arranged in a logical sequential order. Each module covers a specific area of the course and deals adequately with the skills. Each module is concluded by successfully negotiating a criteria test.

Requirements

- Be a South African citizen
- Medically fit
- No criminal record
- Be at least 16 years of age
- Must have passed Grade 12 with Mathematics and Science with at least the following symbols: HG – E symbol
SG – D symbol

Or

N3 certificate with Mathematics and Engineering Science.

Selection Process

- Application form.
- Technical Aptitude Test
- Interview
- Medical examination

The training is free of charge for all the above listed careers but all cadets have to sign a training bond. Training will take place over 2 years. Following this phase, there will be a 24 - 36 month period of internship at feeder airlines. On conclusion, all successful cadets: apprentices/learners will be subjected to a selection board once again. Those found to be suitable will be offered a position as first officers (co-pilots) :Technicians/cabin crew with South African Airways. If a cadet; apprentice/learner is offered a position with South African Airways and turns it down, he or she will have to pay back the training costs.

Please provide the following information with your application:
Nationality, height, age, criminal record (Yes/No) and designated race group (for Employment Equity purposes).

Please note: Applications without the relevant information as requested will not be considered. If you have previously applied and were unsuccessful on three occasions, your application will not be considered. Applicants who are re-applying will not be eligible for evaluation within a period of 12 months from their last assessment.

CONTACT DETAILS

SAA TECHNICAL

SAA Technical (Pty) Ltd
Manager (Human Resources)
Recruitment and Selection
Private Bag X12
OR TAMBO INTERNATIONAL AIRPORT
1627

SAA CADET PILOT

Telephone: 011 978 3353 / 2643

Address: Cadet Pilot Selections
Private Bag x13
O R Tambo International Airport
1627

Website: www.flysaa.com



SOUTH AFRICAN CIVIL AVIATION AUTHORITY (SACAA)

The roles and responsibilities of the CAA revolve around the following nine areas of oversight:

Airport oversight involves the certification of airports and heli-ports and monitoring civil and electrical engineering matters in relation to infrastructure on and around airports such as, lighting, navigational aids, their repair and maintenance.

Airworthiness oversight is concerned with ensuring that all aircraft that fly in our airspace are airworthy to conduct such flights (fit for flight).

Certification oversight deals with all certification activities in relation to aircraft products and parts. This includes the granting permission for new aviation products to be imported into the country.

Personnel oversight involves examining, licensing and training of aviation personnel. All relevant organizations and services are monitored to ensure that personnel and standards meet international standards.

Oversight of **Operations** is carried out in terms of monitoring information contained in the operations manuals of every operator to ensure compliance with relevant legislation.

Airspace oversight ensures the effective management and provision of air traffic services through the allocation of airspace by the statutory consultative body, the National Airspace Committee (NASCOM).

Accidents and incidents investigation, while technically not an area of oversight, is a key activity of the CAA carried out on behalf of Government. Investigations are conducted to determine the cause of aircraft accidents, and to recommend measures to prevent recurrence. Other key functions also include monitoring of trends regarding aircraft accidents and incidents, identification of potential problem areas, possible safety deficiencies and proposing safety recommendations to the CAA.

The **Flight Inspection** division does not fall under a specific area of oversight. The function of this division is to calibrate the radio navigational aids used by aircrafts to ensure accuracy and reliability. Many of these tests are performed on the ground, but to ensure that the radio signals are interpreted accurately by aircraft receivers, it is also necessary to perform airborne tests on the ground equipment.

The **Information Services** division provides aeronautical information to the industry and also meets the information needs of the organization.

CAREERS OFFERED BY SACAA

- Airworthiness Inspector
- Flight Operations Inspector
- Aviation Personnel Standards i.e. Licensing, Examinations & Testing Standards
- Aircraft Accident Investigator
- Aviation Security Inspector
- Dangerous Goods Inspector
- Aviation Medicine Officer
- Manufacturing and Certification Engineering Inspector
- Aircraft Registry Library and Records Management
- Aerodrome and Infrastructure Inspector
- Air Traffic Services Inspector
- Aeronautical Information Services
- Aviation Safety and Security Promotions Officer
- Aviation Law

Requirements

The abovementioned careers require that you have experience in the aviation industry.

CONTACT DETAILS

Telephone: 011 – 5451000

Address: Private Bag x73
Halfway House
1685

Ikhaya Lokundiza
16 Treur Close, Waterfall Park
Bekker Street
Midrand

Website: www.caa.co.za



SOUTH AFRICAN POLICE SERVICES AIR WING

The Constitution of the Republic of South African, 1996 (Act 108 of 1996) lays down that the South African Police Service has a responsibility to -

- prevent, combat and investigate crime;
- maintain public order;
- protect and secure the inhabitants of the Republic and their property; and
- uphold and enforce the law.
- create a safe and secure environment for all people in South Africa.
- prevent anything that may threaten the safety or security of any community
- investigate any crimes that threaten the safety or security of any community
- ensure criminals are brought to justice; and
- participation in efforts to address the causes of crime.

CAREERS OFFERED BY SAPS

PILOT

- Pilot (fixed-wing aircraft);
- Pilot (helicopter);

Requirements

Grade 12

Mathematics HG symbol C or SG symbol B

Science HG symbol C or SG symbol B

Age: 27years or younger

TECHNICAL

- Aircraft Avionician;
- Aircraft Radiotrician;
- Radartrician;
- Electronics Mechanic;

Requirements

Grade 12

Mathematics HG symbol E or SG symbol D

Science HG symbol E or SG symbol D

Age: 27years or younger

GENERAL

Mechanical Support Clerk
Airborne Law Enforcement Officer (ALEO);
Aviation Safety;

Requirements

Grade 12
Mathematics HG symbol E or SG symbol D
Science HG symbol E or SG symbol D
Requirements
Age: 27years or younger

CONTACT DETAILS

Telephone: 012 421 8277
012 421 8454
012 421 8435

Address: Career Management
Private Bag X241
Pretoria
0001

Website: www.saps.gov.za

USEFUL ADDRESSES

Should you require more information on a career in aviation, you may direct your request or application for an apprenticeship to any of the following organisations:

Air Traffic & Navigation Services

Private Bag x15, Kempton Park, 1620.

Tel: 011 961 0100 / 0243

www.atns.co.za

Email: admin@atns.co.za

Airline Pilots' Association of South Africa (ALPA-SA)

P O Box 796, Kempton Park, 1620.

Tel: 011 394 5310.

www.ifalpa.org

Airports Company South Africa

P O Box 75480, Gardenvue, 2047.

Tel: 011 921 6723.

www.acsa.co.za.

Association of Aviation Maintenance Organisations (AMOSOA)

P O Box 7283, Halfway House, 1685.

Tel: 011 659 2345

Association of SA Travel Agents (ASATA)

P O Box 1234, Saxonwold, 2132.

Tel: 011 327 7803.

www.asata.co.za.

Email: general@asata.co.za

Aviation Training Academy

Tel: 011 570 0449

www.ata.co.za

BA/Comair

P O Box 7015, Bonaero Park, 1622.

Tel: 011 921 0111

Capital Sounds

P O Box 393, Welkom, 9460

Tel: 057 388 2351

E-mail: capital@icon.co.za

Commercial Aviation Association of South Africa (CAASA)

P O Box 7283, Halfway House, 1685

Tel: 011 659 2345/8.

www.caasa.co.za.

Email: caasa@iafrica.com.

Denel Training Academy

P O Box 8322, Centurion, 0046

Tel: 012 671 2700

www.denel.co.za

Department of Transport

Private Bag x193, Pretoria, 0001

Tel:

www.dot.gov.za

Department of Justice

Private Bag x81, Pretoria, 0001.

Tel: 012 315 1111

www.doj.gov.za

Engineering Council for South Africa (ECSA)

Private Bag x691, BRUMA, 2026

Tel: 011 607 9500

www.ecsa.co.za

Government Printer

Private Bag x85, Pretoria, 0001.

Tel: 012 334 4500

National Airways Corporation

P O Box 293, Lanseria, 1748

Tel: 011 267 5000

www.nac.co.za

South African Airlink

PO Box 7529, Bonaero Park, 1622.

Tel: 011 961 1700.

www.saairlink.co.za.

South African Airways – Cadet Pilot Recruitment

Cadet Pilot Selection, Private Bag x13, OR Tambo International Airport, 1627

Tel: 011 978 1000 / 5571

www.flysaa.com

South African Air Force (SAAF), Air Force Headquarters

SANDEF Recruiting Centre, Private Bag x281, Pretoria, 0001,

Tel: 012 312 2148 / 2609 / 2801,

www.saairforce.co.za

South African Civil Aviation Authority

Private Bag x73 Halfway house, 1685

Tel: 011 545 1000

www.caa.co.za

South African Express Airways

PO Box 101, OR Tambo International Airport, 1627.

Tel: 011 978 5577.

www.saexpress.co.za

Email: info@saexpress.co.za

South African Police Service

Tel: 012 421 8277 / 8454 / 8435

www.saps.org.za

South African Society for Professional Engineers (SPE)

P O Box 78433, Sandton, 2146.

Tel: 011 783 0765

spe@professionalengineers.co.za

Safair (Pty) Ltd

PO Box 938, Kempton Park, 1620.

Tel: 011 928 0000.

www.safair.co.za

South African Society for Aerospace and Environmental Medicine

Private Bag x08, Lyttleton, 0140.

Tel: 012 664 5954

Tlamela Aviation Training Academy

Almil Rinwil House, 12 Margaret Avenue, Kempton Park; 1619

P.O. Box 4491, Kempton Park, 1620

Tel: 011-394 7786

www.tlamela.co.za

E-mail: info@tlamela.co.za

University of Johannesburg - Transport Economics

Faculty of Management, C Ring 613,

Tel: 011 489 2464.

www.uj.ac.za