

TRADES IN IAF

Candidates are enrolled in the Indian Air Force as per the existing vacancies and are allotted one of the following trades:-

GROUP 'X'

Technical

(New Trades)

Electronics Fit

Electrical Fit

Mechanical System Fit

Structures Fit

Propulsion Fit

Workshop Fit (Smith)

Workshop Fit (M)

Automobile Fit

Weapon Fitter

(Previous Trades)

{Radio Fitter, Radar Fitter, Missile Fitter (L)}

{Instrument Fitter, Missile Fitter (E),
Plant Maintenance Fitter (E), Electrical Fitter,
Photo Fitter}

{Missile Fitter (M), Plant Maintenance Fitter (M)}

Airframe Fitter

Engine Fitter

{Workshop Fitter (B), Workshop Fitter (C)}

Workshop Fitter (M)

{Mechanical Transport Fitter, Missile Fitter (M)}

Weapon Fit

Non Technical

(Same as previous)

Education Instructor

*Enrolled in the Rank of Sergeant (U/T)

GROUP 'Y'

Technical

(New Trades)

Auto Technician

(Previous Trades)

{Mechanical Transport Technician, Mechanical
Transport Driver}

Communication Tech

(Radio Technician, Teletest RT Operator)

Non Technical

(New Trades)

Adm Assistant

(Previous Trades)

(Clerk General Duties, Catering Assistant)

Accts Assistant

(Clerk Equipment Accounting, Clerk Pay Accounting)

Ops Assistant

(Air Defence Systems Operator, Air Field Safety Operator)

Environmental Support

Aircraft Hand General Duties

Services Assistant (ESSA)

Logistics Assistant

Equipment Assistant

Group Training Instructor

Indian Air Force (Police)

Indian Air Force (Security)

Medical Assistant

Meteorological Assistant

GROUP 'Z'

Non- Technical

(Same as previous)

Musician

TRADE-WISE JOB CONTENTS

On the basis of performance in the Joint Basic Phase Training at Airmen Training School, specific trades are allotted to the successful candidates. Basic combatant training is imparted to all the recruits which includes basic discipline and manners, educational training, weapon training etc. After successful completion of basic training, you will be trained in specific trades. PT, Parade and games are integral part of the training and service life. Succeeding paragraphs give an idea of the nature of job an airman is expected to perform in different trades. However, depending on service requirement, an airman may be assigned other jobs as required by his superiors.

Electronics Fit {Radio Fitter, Radar Fitter, Missile Fitter (L)}

Radio Fitter :- As a Radio Fitter; your responsibilities involve setting up, operation and maintenance of ground Wireless Telephony and Radiotelephony receiving equipment and associated transmitters for point-to-point and ground-to-air channels. You will also be responsible for the operation and maintenance of recording equipment.

Radar Fitter:- If you join the Air Force as a Radar Fitter, you are responsible for the installation, maintenance and servicing of all airborne and ground radar equipment and test sets. You will be trained to read and interpret Blue prints and technical diagrams applicable to the trade.

Missile Fitter (L):- As a Missile Fitter, you will be responsible for repair, replacement, construction and operation of various systems of common user vehicles. You will also undertake drilling, heat treatment, transportation of explosives and

maintenance of bomb dump. You will have a firm grounding in engineering drawing, measuring instruments tools, digital technology, Air Defence Organisation and different missile systems. You will also be introduced to missile technology, servomechanism, modern radar theory and techniques, electronic warfare, advance stage radar systems and modern electronic devices.

Electrical Fit {Instrument Fitter, Missile Fitter (E), Plant Maintenance Fitter (E), Electrical Fitter, Photo Fitter}

Instrument Fitter:- As an Instrument Fitter, you are involved in the maintenance and servicing of special instrument like bombsight, gun sight, autopilot, Gyrosyn compass and other navigational instruments. Your responsibilities include the removal and installation of complex assemblies of those instruments. You will be trained in the use of standard testing equipment like electrical measuring instruments, insulation and continuity tester and test meters.

Missile Fitter (E):- As Missile Fitter, you will be responsible for the operation and maintenance of tools, spare parts and accessories of Missiles, Launchers and Transport Loader machines. To undertake the same, you are trained to interpret the working principle and operation of various mechanical devices installed on the Transport Loader machine as well as the electrical and mechanical equipment and electronic components fitted on the Launcher and Missile. To further enhance your effectiveness, you will also be instructed in the use of electrical key diagrams and the mechanical drawings.

Plant Maintenance Fitter (E):- Here, you are responsible for flight maintenance and safety, technical administration and logistic procedure. You will be

trained in engineering drawing, workshop/electrical/digital technology, computers, electrical measuring instruments, electronics, cells and batteries, wiring and accessories and DC/AC power distribution.

Electrical Fitter:- The responsibility of an Electrical Fitter includes the care and maintenance of charging room equipment, aircraft power supply system and associated electrical equipment.

Photo Fitter:- As Photo Fitter in the Air Force service one will be trained and tasked on Photography, Processing of Photo Films and Maintenance of photo equipments. They have to look after the Photo Section of the unit.

Mechanical System Fit {Missile Fitter (M), Plant Maintenance Fitter (M)}

Missile Fitter (M):- As a Missile Fitter, you will undertake activities like repairs and servicing of missile frame, engine, propellants (both solid and liquid) and warheads, assembly and arming of missiles. Your responsibilities will also include maintenance and operation of air compressors and missile ground equipment. You will be imparted basic workshop skills, as well as training in the construction of a missile, transportation of explosives and maintenance of bomb dump. You will also be guided to effectively carry out the construction, repair and operation of various systems of common user vehicles.

Plant Maintenance Fitter (M):- Your responsibilities will include a diagnosis and rectification of common running faults such as airlocks, vibration, over speeding etc. You will also be undertaking other related activities like re-assembling hydraulic and pneumatic components such as compressors, jacks and pumps. You will also be

engaged in activities like re-fuelling/de-fuelling of aircraft (Helicopter, Fighter, Transport and Bomber), and its documentation, drawing and reading/interpretation. You will be trained in first and second line servicing, operation and maintenance of all aircraft ground equipment and their sub-assemblies.

Structures Fit (Airframe Fitter)

If you join the Air Force as an Airframe Fitter, you are responsible for the maintenance and servicing of airframes and their accessories, components and controls. Regular checks for the entire hydraulic and pneumatic system to ensure proper functioning against leaks are also part of your duties. You will also be assigned the responsibility of marshalling, parking, picketing and ground handling of aircraft.

Propulsion Fit (Engine Fitter)

As an Engine Fitter you will be undertaking the repair and servicing of the piston and gas turbine engines, their accessories, components, controls and associated fuel, oil and coolant systems. You will also discharge the function of re-fuelling and de-fuelling of aircraft. In adverse weather and local conditions, your responsibilities also include picketing aircraft.

Workshop Fit (Smith) {Workshop Fitter (B), Workshop Fitter (C) }

Workshop Fitter (B) :- In the capacity of Workshop Fitter (B), you will be trained for activities pertaining to metallurgy, heat treatment, smithy, welding and blazing, gas cutting, moulding and casting. You will also gain proficiency in grinding and drilling, repairs, computer, production technology, material management, manufacturing processes and workshop safety.

Workshop Fitter (C):- If you are part of the (C) category of Workshop Fitters, you will undertake structural repair and maintenance of aircraft, workshop safety and unconventional machining process. Like category (B) your responsibilities include fitting, metallurgy, heat treatment, soldering as well as others like sheet metal work, tube flaring, grinding, drilling and machining, MT and other radiators.

Workshop Fitter (M):- As a Workshop Fitter (M) tradesman, you are to undertake all maintenance work of mechanical nature like other workshop Fitter tradesman. This is a conversion trade.

Automobile Fit (Mechanical Transport Fitter) This is a conversion trade. In this trade, one is responsible for maintenance & upkeep of Mechanical Transport.

Weapon Fitter:- Operating as a Weapon Fitter, you are involved in the handling of air-to-air, air-to-ground and ground-to-air guided missiles. You are also in charge of preparation of weapons and armament equipment for firing ranges, as well as the fusing of explosives. We ensure that you are adequately trained for the maintenance and storage of explosives. The objective of our training is to enable you to carry out the installation, repair and servicing of small arms, machine guns, Breech Firing Mechanism, bomb carriers, ejection seats, bomb winches, clay pigeon traps, rocket installation, belt filling and positioning mechanics.

Education Instructor:- As an Education Instructor, you will conduct classes and examinations. You are also trained to undertake the maintenance and administration of libraries, information rooms and schools.

Auto Technician {Mechanical Transport Technician, Mechanical Transport Driver}

Mechanical Transport Technician:- As Mechanical Transport Technician, you are responsible for the removal and replacement of wheels, tubes, ignition and fuel systems as well as overhauling of engines. To undertake these tasks, you are trained to undertake servicing, repairing and maintenance of vehicles and ground equipment used in the MT Section.

Mechanical Transport Driver:- In the post of the Mechanical Transport Drivers, you are required to drive and maintain all types of vehicles. You are also made conversant with the care and maintenance of tyres, tubes and batteries.

Communication Tech {Radio Technician, Telet RT Operator}

Radio Technician :- As a Radio Technician in the Indian Air Force, you are required to send and receive Morse on wireless circuits. You are also responsible for activities like handling of Secret and Confidential publications and operating a teleprinter. Your other duties include an understanding of current service and civil operating procedures, maintenance of log books and signals diary, communication organisation at various places.

You are trained to undertake erection of various types of aerials used for communications, operating, tuning, setting up, first line servicing and minor repairing of ground Wireless Transmission and Radio Transmission receiving equipment and associated transmitters for point-to-point and ground-to-air channel.

Telest RT Operator:- In the capacity of Radio & Telephone Operator, you are required to maintain telephone services. You also undertake the operation and carry out servicing of other communication equipment, VHF sets, direction finding equipment, Trunk Switch Board, Field Telephones and their multiple switchboards.

Adm Assistant {Clerk General Duties, Catering Assistant}

Clerk General Duties:- As Clerk General Duties, you are responsible for maintenance of records, files and correspondence.

Catering Assistant:- As Catering Assistant, you are responsible for the supply and accounting of rations.

Accts Assistant {Clerk Equipment Accounting, Clerk Pay Accounting}

Clerk Equipment Accounting:- As a clerk Equipment Accounting you will be responsible for preparation and maintenance of vouchers pertaining to Equipment Accounting, keep update record of all receipt and issues through logistics and other channels, issue of ration on prepayment etc.

Clerk Pay Accounting:- In the capacity of Clerk Pay Accounting, you are involved in the preparation and maintenance of documents related to public funds. You also perform similar activities with respect to the pay and allowances of all personnel and the accounts of items purchased out of public funds.

Ops Assistant {Air Defence System Operator, Air Field Safety Operator}

Air Defence System Operator :- As Air Defence System Operator, you are responsible for surface-to-air guided weapon and air defence artillery. You are also involved in basic workshop practice, alignment, adjustment and calibration of the Cathode-ray-tubes of the display units in Radar Sets, Defensive/Offensive Missions and Meteorological Information Sections. To carry out your responsibilities effectively you are made familiar with the functions, duties and responsibilities of the Air Defence Organisation at various places. You are imparted training in reverse writing, plotting, and maintaining various status boards, log and lateral/back/forward telling. You are also instructed to undertake radarscope observation, reporting of tracks, and state of readiness, command and control of Air Defence Aircraft.

Air Field Safety Operator:- As an Air Field Safety Operator, your job involves the operation of different systems of the Air Traffic Control Tower and the Air Field. You also provide assistance to the Air Traffic Control Officer in the discharge of his functions.

Environment Support Services Assistant (ESSA)

(Aircraft Hand General Duties):- This job involves maintenance of the fire fighting section. It also requires that you ensure the upkeep of hygiene of Air Force Camps by maintaining cleanliness and proper sanitation.

Logistics Assistant (Equipment Assistant):- As Equipment Assistant, you are involved in the procurement, storage, handling, issue and accounting of all service stores.

Ground Training Instructor:- Undertaking the job of Ground Training Instructor, you will train personnel on drill, parade, handling of arms and physical exercise. You are also responsible for organizing and conducting all games and sports activities.

Indian Air Force (Police):- In the position of IAF Police your responsibilities involve assuming police duties, investigation of offences and minor pranks. You are also in charge of maintenance of security.

Indian Air Force (Security):- IAF(S) tradesmen are being trained and equipped to be a tactically and operationally agile force with capability for rapid deployment to meet ground level threat from terrorist attacks, to undertake special missions at anytime, at any place against the adversary to protect valuable assets of IAF. They will undertake envisaged tasks of base security, force protection, combat search & rescue, counter terrorism, disaster relief and designated special missions during war. After completion of a specific period of successful service as IAF (S) they are converted to Indian Air Force (Garuds).

Medical Assistant:- As a Medical Assistant, you are made familiar with nursing and first aid. You are also involved in management of medical stores, dispensaries and ward supervision.

Meteorological Assistants:- If u are a Meteorological Assistant, you are trained to undertake weather observation and maintenance of meteorological instruments. You are also responsible for plotting or charts, taking balloon observations and compilation of weather summaries.

Musician:- Airmen in the capacity of musicians make up the Air Force Band. If you join the Air Force as a musician you will be trained to play different musical instruments.