

6. INDIRA GANDHI RASHTRIYA URAN AKADEMI

6.1 INTRODUCTION

6.1.1 Indira Gandhi Rashtriya Uran Akademi was set up to bring about a quantum improvement in the standards of flying and ground training of Commercial Pilots in the country. For this, the Akademi is equipped with most modern and sophisticated trainer aircraft, up-to-date audiovisual training aids and other facilities for effective ground training. Highly qualified flying and ground instructors, with long experience in the field of aviation and flying training. The aim is to reduce the work load of pilot to make him an effective systems manager. The graduate of the akademi reach the standards required to transit with ease on the cockpits of the airlines.

6.1.2 The Akademi has excellent infrastructure with a fully furnished hostel (72 rooms) for the pilot trainees and staff quarters (88 Qtrs) inside the institutional Area. In the Operational Area it has its own Runway. ATC and two hangers and compliment of operational & maintenance staff. It is a premior institution of the country in the field of flight training.

6.2 OBJECTIVES

6.2.1 The objective of the Akademi is to conduct airline oriented flying training courses to the level of contemporary international standards. The courses offered are:-

- a) CPL training course fixed wing aircraft, i.e.
TB-20 & King Air C-90A.
- b) Multi Engine Endorsement Course
- c) Instrument Rating Course
- d) Simulator Training Course
- e) Standardisation Course for Chief Flying
Instructor and Pilot Instructor Incharge of
Flying Clubs.
- f) Ground Training Course for Assistant Pilot
Instructor (A) of Flight Instructor Rating
(A).
- g) Skill Tests for renewal of Licence for
ex-students of IGRUA, on requirement basis.
- h) To provide Simulator & Other facilities to
outside aviation agencies of Pilot Selection &
Interview.
- i) Practical training to Diploma Holders in
Aeronautical Enginneering.

Of the above, the CPL course is conducted on regular basis and the others on request.

6.3 ORGANISATION

6.3.1 The Akademi is an autonomous body under the control of the Ministry of Civil Aviation, Govt. of India. The Governing Council is the supreme body of the organisation and the Secretary, Ministry of civil Aviation is its Chairman.

6.3.2. The Akademi is headed by a Director who is assisted by Departmental Heads, such as, Chief Flying Instructor, Chief Ground Instructor, Chief Engineer and Chief Administrative Officer.

6.4 TRAINING

6.4.1 Commercial Pilot's Licence (CPL) Course: This is the main activity of the Akademi. This course is offered to pilots holding Private Pilot's Licence. Training for Commercial Pilots Licence with multiengine endorsement and instrument rating is imparted to the trainees alongwith training on Simulators.

6.4.2 GROUND TRAINING:

The details of the Ground Training are as follows:-

- (a) Basic Training On arrival at the Akademi, the students undergo ground training in basic aviation science subjects and also specific to TB-20 aircraft. Flying training commences after about 20-24 weeks. Ground Training in aviation subjects comprises of 590 hours of lectures, it sets a sound foundation for Line Oriented Flying Training (LOFT) and prepares the pilots for adoption of fast developing needs of aviation industry.
- (b) Audio visual Aids: To impart ground training effectively, the Akademi has modern audio-visual aids including a large number of video training films and slides, cut-ways, working and schematic model of various aircraft components and systems, radio telephony and a Morse code training lab. A Wind Tunnel, Computer Based Training (CBT) system and Pilot Aptitude Test trainer (WOMBAT).

6.4.3 Flying Training:

(a) Pre flight Preparation: Flying training is carried out by experienced flying instructors. Group briefing on important excercises are carried out over and above thorough personal briefing and debriefing prior to and after each flight.

(b) AIRCRAFT

- (i) The Akademi has 12 Trinidad TB-20 Aircraft. Basic flying training is imparted on this aircraft which is a piston single engine aircraft with variable

pitch propeller, retractable undercarriage and is equipped with modern Nav Aids. The Aircraft is ideal for Line Oriented Flying Training (LOFT) and instrument flying training.

- (ii) The Akademi has two King Air C-90A aircraft. The final stage of training is carried out on this aircraft. This is a twin engine turbo-prop aircraft with pressurised cabin. The aircraft is equipped with modern and sophisticated radio navigational aids. Particular attention is paid to Line Oriented Flying Training. The students graduate with multi-engine endorsement and instrument rating.

(c) FLYING TRAINING SYLLABI:-

The Trainees fly a total of 170 hours on the TB-20 aircraft and 20 hours on the TB-20 cockpit procedure trainer. Of this 170 hours. the trainees do 50 hours dual and 120 hours solo. In the next stage the trainees after 20 hours on King Air C-90A Simulator flies 20 hours on the aircraft. The trainees are given a CPL endorsement and Instrument Rating on both these aircraft. The endorsement on the later aircraft puts the IGRUA trainees at a distinct advantage to other trainees including those having trained abroad.

6.4.4 SIMULATOR TRAINING:-

The Akademi has a modern upgraded King Air C-90A simulator with visual system for giving intensive training to pilots in normal and emergency procedures and for instrument flying exercises. Two single engine TB-20 Flight Simulators and two Touch Panel Trainers, one for King Air C-90A Aircraft and one for Boeing-737 Aircraft are also in operation. Over and above this, one HPT which is a glass Cockpit Procedural Trainer is programmed to fly eight different types of aircraft is available with visual systems. All these are made use of in developing the trainees.

6.5 COMMERCIAL HELICOPTER PILOTS LICENCE (CHPL) COURSE

6.5.1 This course was offered to pilots holding CPL. Most of the helicopter pilots trained by the Akademi were absorbed by M/s Pawan Hans Helicopters Limited and Aviation Research Centre (ARC). The CHPL Course in the Akademi has been discontinued since March, 1992 due to shortage in demand for Helicopter Pilots in the country.

6.6 MAIN ACHIEVEMENTS:-

6.6.1 The details of pilots trained/under training in the Akademi during the last 7 years are as follows:-

	Total Number of Students Completed Training	Under Training
Fixed Wing (including Foreign Nationals)	114	31
TOTAL	114	
Refresher Trng. On Simulator	14	
Flying Instructor Rating Course	38	

6.6.2 Flying training of 15th, 16th & 17th CPL course consisting of 31 trainees is in progress, which is likely to be completed by mid of year 2001.

6.7 NUMBER OF HOURS FLOWN DURING THE YEAR 1999-2000.

Type of Aircraft	Hours flown
Trinidad TB-20	5451.25
King Air C-90A	492.10
TOTAL	5941.35

6.7.2 The standard achieved by the students during their training at the Akademi are comparable to international standards. The performance of the graduates of the Akademi, who have joined Air India, Indian Airlines and other private Airlines has been appreciated by their respective employers.

6.8 POLLUTION CONTROL

6.8.1 Maintenance of aircraft and its equipments/spares is being done in the Akademi, which does not involve any production/manufacture. However, the following steps are taken in the Akademi for pollution control:

- (a) Control of Ambient Air Pollution
 - (i) Vehicle engines are properly maintained within the prescribed limits.
 - (ii) Solid waste is burnt in a manner as to cause minimum fumes.
 - (iii) Forestation is actively pursued to maintain a

green environment in the Akademi.

(b) Waste Water Disposal

The Akademi has proper under ground drainage and an efficient sewerage plant to ensure that the water sources are not polluted in any manner.

(c) Control of Pollution from Chemical and other waste

The Akademi does not possess such plants/machinery, which produce chemical and other waste.

6.9 WOMEN'S WELFARE

6.9.1 IGRUA has three women employees and their welfare is being looked after through normal administrative channels.

6.10 ACTIVITIES & ACHIEVEMENTS OF VIGILANCE

6.10.1 A part time Chief Vigilance Officer (CVO) is functioning as per the Govt. Instruction. The CVO is conducting surprise checks of various Deptt./Section of the Akademi time to time. LTC/Medical/TA claims of the employees are being verified by the CVO. A few cases of fraud have been investigated and established by the CVO.

6.11 IMPLEMENTATION OF OFFICIAL LANGUAGES

6.11.1 The Akademi continues to take necessary steps for ensuring the implementation of all provisions of the Official Language Act & Rules Employees are given training in Hindi, Devnagri Typing etc. Incentives are given to employees for successfully qualifying Devnagri Typing Test Computers have been modified with software for use in Hindi and are in operation. Efforts are being made to use Hindi as medium of instruction.