



International Civil Aviation Organization

WORKING PAPER

A37-WP/232

TE/135

20/9/10

(Information paper)

English only

ASSEMBLY — 37TH SESSION

TECHNICAL COMMISSION

Agenda Item 45: Next Generation of Aviation Professionals

EXPANSION OF THE FELLOWSHIP TRAINING PROGRAMME OF THE REPUBLIC OF KOREA JOINTLY ESTABLISHED WITH ICAO

(Presented by the Republic of Korea)

EXECUTIVE SUMMARY

This paper presents the enhanced fellowship training programme for developing countries which has been provided by the Republic of Korea (ROK) according to an MOU signed with ICAO. Since 2001, the ROK has invited and trained 390 fellows from 89 countries in the field of air navigation. The ROK will continuously make every possible effort to contribute to the development of international civil aviation.

Action: Updated information on the training programme is described in this paper.

<i>Strategic Objectives:</i>	This paper relates to Strategic Objective A: Safety – <i>Enhance global civil aviation safety</i> , and Strategic Objective D: Efficiency – <i>Enhance the efficiency of aviation operations</i> , in support of the safety and balanced development of international civil aviation.
<i>Financial implications:</i>	N/A
<i>References:</i>	Annex 14 – <i>Aerodromes</i>

1. INTRODUCTION

1.1 Recognizing that the safety and balanced development of international civil aviation was possible through continuous training, specialized support and cooperation for aviation personnel, the Republic of Korea (ROK) has invited and trained 390 aviation personnel from 89 developing countries to participate in training programmes free of expenses since 2001 as described in the Appendix.

1.2 To further develop the training programmes and to provide more countries with opportunities to participate in the programme, the ROK and ICAO signed a Memorandum of Understanding (MOU) in August 2009 to jointly establish the Fellowship Training Programme for Developing Countries with aims to train 390 aviation personnel from ICAO Contracting States over a three year period from 2010 to 2012. In accordance with this MOU, the ROK will invite 168 trainees in 2010 to participate in courses described below with the aim of promoting balanced development of international civil aviation.

1.3 Since 2009, the ROK has signed MOUs with the African Civil Aviation Commission (AFCAC) and the Latin American Civil Aviation Commission (LACAC) to extend the fellowship training programme among the Member States. The ROK is sure that the MOUs will further strengthen international cooperation between the ROK and the Member States of civil aviation commissions.

2. TRAINING COURSES OUTLINE

2.1 The programme consists of eight training courses covering the subjects of the global navigation satellite system (GNSS), DVOR (Doppler VHF Omni Range) maintenance, and radar approach control, which will be conducted every year at the Korea Civil Aviation Training Centre (KCATC) and Incheon International Airport Corporation Aviation Academy.

- a) **GNSS:** A 2-week course conducted once a year. It gives an introduction to ICAO's GNSS implementation plans and operational status around the world. In addition, GNSS principles and application technologies are transferred to the participating countries for their preparation of technical foundations for GNSS implementation.
- b) **DVOR Maintenance:** A 3-week course conducted once a year. The purpose of this course is to prepare firm foundations for the development of aviation technologies in the participating countries by improving abilities of trainees to maintain and manage DVOR through covering basic principles and practices on DVOR developed by the ROK.
- c) **Radar Approach Control:** A 3-week course conducted once a year. It provides the radar approach control theories and practical training under actual conditions using simulators. The purpose of this course is to lay the foundation for developing countries to upgrade their Air Traffic Service (ATS) capabilities.
- d) **Airport Operations:** A 3-week course conducted once a year. The purpose of this course is to improve airport operations in participating countries, delivering practical training programme based on the advanced airport operations experience of Incheon International Airport.

- e) **Aviation Security:** A 3-week course conducted once a year. The purpose of this course is to make secure and convenient conditions for air travel by enhancing airport security operations in participating countries, delivering a practical training programme based on best practices in airport security operation of Incheon International Airport.
- f) **Airport Terminal Operation:** A 1-week course conducted once a year. The purpose of this course is to enhance the skills and expertise of participants to efficiently manage and operate the terminal, delivering experience and best practices of terminal operation in Incheon International Airport to improve airport service quality for airport users.
- g) **Radar Concepts:** A 3-week course conducted once a year. The purpose of this course is to prepare foundation for air navigation safety in participating countries by providing total training solutions in RADAR technologies through lectures and demonstrations.
- h) **Annex 14:** A 1-week course conducted once a year. The purpose of this course is to develop a solid understanding of the regulatory framework of international aviation law and a clear interpretation of the requirements described in ICAO Annex 14 - *Aerodromes* and to share best practices of Incheon International Airport in its application of Annex 14 in airport operations.

3. IMPLEMENTATION PLANS

3.1 The plans of the fellowship training programme for developing countries are as follows:

- a) for three years beginning 2010, 130 recipients of training fellowships will be invited to participate in 8 courses such as GNSS, DVOR and Radar Approach Control. The trainees will learn the application of advanced technologies and exercise in aviation fields. The number of trainees may increase depending on demand of ICAO member States;
- b) in order to expand training opportunities, the ROK will open more training courses and invite more trainees after 2010;
- c) the ROK plans to have these independently developed and implemented training courses certified by ICAO as international standard courses with a view to providing more standardized training programmes. It will also take steps to gain certifications for DVOR Maintenance and GNSS system training;
- d) in order to enhance the quality of education and training in accordance with the Management Services Agreement signed between the ROK and ICAO in May 2007, the ROK will invite experts from ICAO and others to give special lectures;
- e) trainees will not only receive classroom training but will also have opportunities to visit GNSS facility sites to get first-hand experience with advanced navigation technologies. They will also have the chance to visit historical and other local places to have more memorable stay in Korea; and

- f) a website which contains technical materials and aviation newsletters will be prepared for trainees to exchange information and participate in a class reunion.

4. OTHER RELATED INFORMATION

4.1 Training environment

4.1.1 The Korea Civil Aviation Training Centre of Korea Airport Corporation (KCATC) and the Incheon International Airport Corporation Aviation Academy are the most representative of aviation academies in the ROK. They have qualified instructors for each training course and various teaching aids and lab facilities to improve the quality of training.

- a) **Korea Civil Aviation Training Centre (KCATC):** It was established in 1984 with financial and technical assistance from the United Nations Development Programme (UNDP) and ICAO. It has significantly contributed to the improvement of technical expertise at home and abroad. KCATC is not only staffed with outstanding faculty and equipped with most advanced training facilities but also with amenities and leisure facilities for the comfort and convenience of the trainees during their stay.
- b) **Incheon International Airport Corporation (IIAC) Aviation Academy:** It is a new training facility established on 8 June 2008. At this most comfortable and convenient training environment, cutting-edge technology is provided to maximize training output. Located only 40 minutes from Seoul and accessible by the Airport Highway, trainees can reach Seoul without any traffic congestion. IIAC Aviation Academy has offered practical training courses which are very relevant and applicable to the actual airport operation. The main contents of the courses are the best practices and experience of IIAC in airport operations combining best practice sharing classes, an airport tour and workshops to avoid being too conceptual or theoretical.

4.2 Expenses

4.2.1 The Joint Programmes with the Korea International Cooperation Agency (KOICA) (Course Codes: A1, A2, A3, A4 and A5) and the Global Aviation Safety Programmes (Course Codes: B1, B2 and B3) are all paid training programmes covering a variety of expenses necessary for the participation in these courses. Airfare for the Joint Programmes with KOICA, except the Global Aviation Safety Programmes, will be paid by the Government of the ROK on a case-by-case basis.

5. CONCLUSION

5.1 The ROK has provided training programmes for aviation experts from developing countries since 2001. In addition, the ROK will upgrade these programmes in cooperation with ICAO to provide more practical support to the participating countries in their efforts to enhance their aviation capabilities and to contribute to further development of international civil aviation. The ROK looks forward to active participation from ICAO Member States in the training programmes.

APPENDIX
FELLOWSHIP TRAINING PROGRAMME

◆ **Training courses and dates**

Course Code	Course Title	Duration	Participants	Training Institute¹
A. Joint programme with Korea International Cooperation Agency (KOICA)				
A-1	DVOR./DME Maintenance	4 weeks	15	KCATC
A-2	GNSS Introduction	2 weeks	15	KCATC
A-3	Airport Operations	3 weeks	25	IIAC Aviation Academy
A-4	Aviation Security	3 weeks	25	IIAC Aviation Academy
A-5	Radar Approach Control	3 weeks	18	KCATC
B. Global aviation safety programmes				
B-1	Airport Terminal Operation	1 week	20	IIAC Aviation Academy
B-2	Radar Concepts	3 weeks	15	KCATC
B-3	Annex 14 (Aerodrome)	1 week	20	IIAC Aviation Academy

— END —

¹ KCATC: Korea Civil Aviation Training Center of Korea Airports Corporation
IIAC Aviation Academy: Incheon International Airport Corporation Aviation Academy