

**55th CONFERENCE OF
DIRECTORS GENERAL OF CIVIL AVIATION
ASIA AND PACIFIC REGIONS**

*Denarau Island, Nadi, Fiji
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**AGENDA ITEM 8: TECHNICAL AND REGIONAL
COOPERATION**

**THE SINGAPORE-ICAO PROGRAMME
FOR YOUNG AVIATION PROFESSIONALS**

Presented by Singapore

SUMMARY

This paper provides an overview of the Singapore-ICAO Programme for Young Aviation Professionals (PYAP) introduced in February 2018 providing 40 scholarships and 600 fellowships for young aviation professionals in developing countries. This programme supports the ICAO “No Country Left Behind” and “Next Generation of Aviation Professionals” initiatives.

The Conference is encouraged to nominate suitable young aviation professionals for the programme and to provide feedback on the types of courses to be covered under the PYAP.

THE SINGAPORE-ICAO PROGRAMME FOR YOUNG AVIATION PROFESSIONALS

1. INTRODUCTION

1.1 Aviation contributes significantly to global economic prosperity through economic growth, job creation and facilitation of international trade and tourism. The air transport industry supports a total of 62.7 million jobs globally. Estimates by the Air Transport Action Group indicates that the total economic impact of the aviation industry was US\$2.7 trillion in 2014, equivalent to 3.5% of the world gross domestic product (GDP). Both air passenger traffic and air freight traffic are expected to increase more than 200% by 2034 and support 99 million jobs, contributing US\$5.9 trillion in GDP.

1.2 With the significant increase in air traffic, it is important to ensure that sufficient qualified and competent aviation professionals are available to operate, manage and maintain the future air transport system. By 2036, the aviation sector is forecast to need 620,000 pilots, 125,000 air traffic controllers and 1.3 million aircraft maintenance personnel as well as other related professionals such as airport and airline operators, providers of ground services, maintenance, repair and overhaul services, and regulators.

1.3 The aviation industry faces the challenges of coping with the retirement of current generation of aviation professionals, competition with other industry sectors for highly skilled professionals, the need for re-training and cross-training of existing aviation professionals to manage new technology and new ways of working, and getting access to affordable training and education. With the anticipated shortage of skilled aviation professionals in the near future, training and development of the next generation of aviation professionals is of paramount importance.

1.4 In February 2018, the Singapore Coordinating Minister for Infrastructure and Minister for Transport Khaw Boon Wan and ICAO Council President Dr Olumuyiwa Benard Aliu, signed a Memorandum of Understanding (MOU) for the Singapore-ICAO Programme for Young Aviation Professionals (PYAP).

2. DISCUSSION

2.1 The PYAP comprises 40 scholarships and 600 fellowships valued at S\$6 million (USD\$4.5 million) to be given to young aviation professionals, aged 35 and below, from developing countries for selected training courses at the Singapore Aviation Academy (SAA) - the training arm of the Civil Aviation Authority of Singapore (CAAS). The PYAP is a 5-year programme starting from 1 April 2018. The PYAP supports ICAO's "No Country Left Behind" initiative to build up the capacity and capability of developing States to enjoy the socio-economic benefits of aviation, as well as the "Next Generation of Aviation Professionals" initiative which seeks to ensure enough qualified and competent aviation professionals to operate, manage and maintain the future international air transport system.

2.2 The PYAP scholarships are for SAA's Diplomas and will cover the local expenses of the selected participants such as course fees, hotel accommodation and daily allowance, and up to 3 return airfares. The PYAP fellowships for selected courses of 1-2 weeks duration in the Academy will cover local expenses such as course fees, hotel accommodation and daily allowance.

2.3 To qualify for PYAP fellowships and scholarships, applicants have to be government officials aged 35 or younger in the year the course is being conducted. Online applications are available through the SAA website and the application deadlines are 7 weeks before courses start. The courses are reviewed on an annual basis.

2.4 There are two professional Diplomas available under the PYAP scholarships:- **Diploma in Civil Aviation Management (Dip CAM)** and **Diploma in Aviation Safety Management (Dip ASM)**, designed to build up aviation professionals in their career paths in aviation management and safety management. There are both compulsory and elective modules for the Diplomas covering a minimum of 6 weeks of coursework within a 3-year period:

- a) The **Dip CAM** combines strategic aviation regulatory elements with operational considerations to address common concerns in air transport and provide an in-depth understanding of how the various components of the civil aviation industry function and integrate. The compulsory courses are the Aviation Leaders Programme in Public Policy and Civil Aviation Management Programme while the elective courses include specialised training in aviation management, aviation safety, aviation security and air traffic services.
- b) The **Dip ASM** is designed to equip aviation professionals with responsibilities in safety with competencies necessary to comply with ICAO Standards and Recommended Practices (SARPs) and national regulations. The compulsory courses are the Safety Management Systems and State Safety Programme Implementation courses while the elective courses cover areas such as risk management, aerodrome safety, accident and incident investigation, auditing and compliance, safety oversight and human factors.

2.5 The PYAP fellowships are provided for more than 10 SAA courses covering the basic skills and techniques of a wide range of specialisations from aviation safety and security to risk and emergency management as well as aviation and airport management. These courses are intended to build the foundation of the young aviation professionals in different disciplines for their early years in the aviation sector. The list of courses for the PYAP for 2019 are as follows:

Fellowships
Aircraft Accident Investigation Techniques
ICAO Standardized Training Package: Operational Hazard Identification and Risk Mitigation
Safety Oversight Managers
Aviation Security Management Programme
Emergency Management Workshop
Aviation Weather Risk Management
Civil Aviation Management Programme
Air Traffic Management Safety Investigation and Analysis
Airport Emergency Service Command Leadership
Future Airports: Transforming Mindsets of Airport Operators and Regulators for Tomorrow
Future Airports: Technology and Digital Agility for Airport Operators and Regulators
Future Airports: Mitigating Technological and Business Disruptions
Future Airports: Business Analytics Airport Operations/Management

2.6 A total of 8 scholarships and 150 fellowships have been specially set aside for the Asia Pacific region. To date, 4 scholarships and 40 fellowships have been awarded under the PYAP for the Asia Pacific region. The PYAP complements the Singapore-ICAO Developing Countries Training Programme (DCTP) established in 2001 for the provision of scholarships and fellowships to aviation officials.

3. ACTION BY THE CONFERENCE

3.1 The Conference is invited to encourage States/Administrations to:

- a) provide feedback on the type of courses offered under the PYAP.
- b) nominate suitable young aviation professionals for the remaining 4 scholarships and 110 fellowships specially set aside for the Asia Pacific region under the PYAP.

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