



ICAO

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Asia and Pacific Office

**Tenth Meeting of the Asia Pacific Accident Investigation Group
(APAC-AIG/10)**

(Bangkok, Thailand, 9-10 November 2022 — Hybrid Format)

Agenda Item 4: Enhancing Accident Investigation Capabilities

**ATSB STRATEGIC PARTNERSHIP WITH RMIT UNIVERSITY OFFERING
QUALIFICATIONS IN TRANSPORT SAFETY INVESTIGATION**

(Presented by Australia)

SUMMARY

This paper provides an outline of the Australian Transport Safety Bureau's (ATSB) partnership with RMIT University to offer graduate qualifications in Transport Safety Investigation.

1. INTRODUCTION

1.1 The Australian Transport Safety Bureau (ATSB) has established a strategic partnership with RMIT University to offer graduate qualifications in Transport Safety Investigation. The initial offering has been the Graduate Certificate level program, incorporating the following four units of study:

- Investigation Readiness – covering Transport Safety Legislative frameworks, Accident Site Work Health and Safety, Critical Incident Stress Management, Cognitive Interviewing Techniques etc
- Human Factors for Investigators – covering a broad spectrum of fields that are contextualised for safety investigation purposes
- Accident Investigation Fundamentals – covering on-site deployment and information gathering techniques applied in aviation, rail and marine
- Analysis and Analytical Writing Techniques – covering the ATSB's world-leading safety investigation analytical methodologies and practices.

1.2 The courses in the program are offered intensively in one-week blocks spread over a year, providing a better articulation between students working and academic commitments. The program is primarily delivered by experienced ATSB investigators and extends the opportunity for relevant industry-based personnel and investigators from accident investigation agencies across the world to also gain this qualification.

1.3 The delivery is through a hybrid of either attending RMIT's Melbourne campus and/or through on-line lectures.

1.4 The Graduate Certificate program has also received the endorsement of the International Federation of Air Line Pilots' Associations (IFALPA) as an IFALPA Accredited Accident Investigation (AAI) course.

2. DISCUSSION

2.1 The Graduate Certificate offers the opportunity for investigators to explore fundamental aspects of accident investigation and gain skills in:

- understanding and identifying legal, social, economic or environmental impacts and possible risks
- designing creative solutions through systematic problem solving and technological systems design methodologies
- analysing complex technical and managerial aspects by applying theory-based engineering fundamentals
- communicating with stakeholders in a professional and effective manner
- building, leading and working with teams
- professional use and communication of research and information

2.2 The partnership between the ATSB and RMIT University provides industry with access to high quality, ATSB approved training in transport accident investigation, as well providing a framework to facilitate important transport safety related research through a credible university-based methodology.

2.3 Over 2023, RMIT will extend its offerings to include the Graduate Diploma program that will incorporate an additional four units of study as follows:

- Specialist Engineering Techniques applied in Transport Safety Investigations – covering primarily materials failure and an extensive array of data recovery applications and techniques
- Advanced Accident Investigation Fundamentals – building on the Graduate Certificate course as applied to more complex accident scenarios
- Investigating Safety Management Systems – covering techniques applied to more systemic type investigations
- Choice of an elective – from a wide range of subjects/courses geared towards advanced engineering applications and/or research techniques

3. ACTION BY THE MEETING

3.1 The Meeting is invited to note the Graduate Certificate and its objective to offer training to enhance the quality of accident investigations. Further information can be found [here](#).