

# Methodology and Best Practices for Aviation System Block Upgrades (ASBU) Implementation

This advanced course provides you with a common understanding of the Aviation System Block Upgrades (ASBU) methodology and how best to implement the modules. This interactive and practical course will also guide you in making capability-implementation decisions, developing a business case to support investment decisions and communicating the value impact of the ASBU framework. This will support your organisation's goals, objectives and requirements while maintaining alignment with the overall objectives of the global Air Traffic Management (ATM) modernisation programme. In partnership with SAA, this course is delivered by MITRE as a quality service from the Civil Air Navigation Services Organisation (CANSO).

This course is an elective module offered under the [Diploma in Civil Aviation Management](#).

## WHAT YOU WILL LEARN

Upon completion of this course, you will be able to:

- Assess the suitability of capabilities and business case elements for ASBU implementation and return on investments
- Develop an effective approach to cost-benefit analysis and performance metrics to support ASBU implementation
- Establish decision points in your implementation schedule to monitor progress
- Describe and apply concepts, framework and requirements of ASBU to resolve current ATM system deficiencies
- Understand how decision makers select, prioritise and implement ASBU capabilities as well as the negotiation process with multiple ASBU stakeholders

## WHAT IS COVERED

- ASBU value and overview: Guidance in selecting ASBU capabilities
  - Introduction of the ASBU concept and framework
  - Global aviation challenges
  - Course conceptual model
  - Introduction of course case study and exercise format
- Identifying operational performance
  - Decision process to understand need for upgrades
  - Evaluating economic, demographic and market trends
  - Identifying the aviation system's projected demand and expected capacity
  - Needs and Dependency Analysis (NDA) overview: Prerequisites and preparation
  - Candidate ASBU modules needs and dependencies inventory
  - Candidate ASBU modules baseline inventory and gap analysis

## WHAT IS COVERED (CONT'D)

- Operational and business view of case study alternatives
  - NDA impact analysis
  - Assessing ASBU operational effects using performance indicators
  - Business case analysis
  - Operational benefits
  - Life-cycle costs
  - Aviation service provider financial results
  - Identifying other social effects: Passengers, safety and environment
  - Summarising social results

## LEARNING ACTIVITIES

- Case Study on economic value and decision-making
  - Economic impact of ASBU investment policy
  - Multi-stakeholder negotiation and timing to realise the 'best' return on investment
- Multi-stakeholder role-play exercise

## WHO SHOULD ATTEND

This course is beneficial to decision-makers from civil aviation administrations, air navigation service providers, airlines, airport authorities, air traffic management (ATM) system manufacturers and solution providers who are responsible for ATM modernisation programmes and ASBU capability-implementation.

## DURATION

5 days

## FEE

S\$3,300

Fees may also be paid in USD. Participants from Singapore are required to add GST to the fee.

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## HEAR FROM PAST PARTICIPANTS

Find out how this course has benefited participants.

Watch testimonials [here](#).

*"As ASBU focal point, (this course) allows me to take the ASBU concept and discuss it with my ANSP as well as elaborate the Angolan national plan for ASBU."* - Daniel Joao Dos Santos, Angola

*"I gained deeper insights into ASBU, the CBA to select ASBU candidates, and benefited especially from the sharing of experiences from regional stakeholders."* - Chou Hei Wo, Orlando, Macao SAR

## RELATED COURSES

- [Air Traffic Flow Management and Collaborative Decision Making](#)
- [ICAO PANS-OPS Instrument Procedures Design](#)
- [Procedures and Design Process for PBN Airspace](#)

## DISCOUNT

- Group Discount – Enjoy a group discount for three or more participants registered at the same time for the same course run from the same organisation and billing source:
  - Three to six: 10%
  - Seven to nine: 15%
  - Ten or more: 20%

## ABOUT CANSO

CANSO – the Civil Air Navigation Services Organisation – is the global voice of air traffic management (ATM) worldwide. CANSO Members support almost 90 percent of world air traffic. Members share information and develop new policies, with the ultimate aim of improving air navigation services (ANS) on the ground and in the air. CANSO represents its Members' views to a wide range of aviation stakeholders, including the International Civil Aviation Organization, where it has official Observer status. CANSO has an extensive network of Associate Members drawn from across the aviation industry. <https://www.canso.org>

## ABOUT MITRE

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