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 metric 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

• 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.

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
MITRE is a not-for-profit organisation that operates federally-funded research and development centres which are unique organisations that assist the US Government with scientific research and analysis, development and acquisition as well as systems engineering and integration. MITRE also has an independent research programme that explores new and expanded uses of technologies to solve problems. http://www.mitre.org

RELATED COURSES
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• ICAO PANS-OPS Instrument Procedures Design
• Air Navigation Service Leadership and Management Programme