

MEETING THE TRAINING NEEDS OF THE NEXT GENERATION -

SAA'S PERSPECTIVE

Next Generation of Aviation Professionals Symposium

1-4 April 2010

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About SAA

- Established in 1958, training arm of CAAS
- Four specialized schools, more than 100 programmes annually
- 50,000 participants from 190 countries
- Operational, management and specialised programmes for all levels of aviation professionals
- International conferences, seminars and meetings





SAA Schools

School of Aviation Management



School of Air Traffic Services





School of Aviation Safety & Security



School of Airport Emergency Services



Aviation Management

Airport Management & Operations

BAvMan, with Massey University, NZ

Grad Dip in Aviation Management, with National University of Singapore

Grad Dip in Airport Engineering, with Nanyang Technological University, Singapore

Airport Terminal Operations and Management

Airport Ramp Operations and Management

Specialised & Leadership Programmes

Civil Aviation Management Programme

International Air Law: Concepts & Applications

Fundamentals of Aeronautical Information Services: Concepts and Applications



SAA School of Aviation Safety & Security

Safety Oversight & Management

Aircraft Accident Investigation & Management

Auditing Techniques in Relation to Personnel Licensing, with JAA

Integrated Safety Management Systems

Safety Oversight Courses for Managers & Airworthiness Inspectors

Workshop on Human Factors in Aviation

Security Operations & Management

Workshop on Crisis Management in AVSEC

Airline Security Operations, with IATA

Airport Security Operations



SAA School of Air Traffic Services

Operational Surveillance/ Procedural

Primary Air Traffic Control
Aerodrome Control
Area Control (Procedural & Surveillance)
Approach Control (Procedural & Surveillance)
Aeronautical Search and Rescue Operations
On-the-Job Training (OJT) for Instructors
Airspace Planning and Design Workshop
ICAO PANS-OPS Instrument Procedures Design
Aeronautical English

ATC & ANSP Management

Seminar on CNS/ATM

ATS Resource Management & Training
Workshop

SAR Administrators

ATS Safety Management & Investigation
Safety Audits of ATS

Human Factors in ATS Workshop



SAA School of Airport Emergency Services

Airport Fire Safety & Firefighting Operations

Airport Fire Officer Programme

Senior Fire Officer Programme

Operational Fire Command and Control

Aviation Fire-fighting Foam Evaluation

Rescue & Emergency Management

Radiation Hazards & Safety Inspection Workshop

Dangerous Goods Inspector Workshop

Emergency Management Workshop

Strategies and Tactics for HAZMAT Incident Management Workshop, with Texas Engineering Extension Service (TEEX), USA



Partners





























































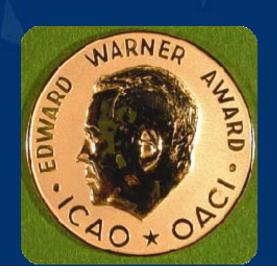


1977 ASEAN Centre of Excellence

1978 ICAO/UNDP Asia Pacific Regional Training Centre

1996 Flight International Aerospace Industry Award

2000 34th ICAO Edward Warner Award





SCHOOL OF ATS

COMPETENCY BASED LEARNING

- Outcome-oriented, benchmarking required performance standards
- Assessments to validate competencies at various stages
- Feedback on competency levels and gaps
- Instructor-dependent vs material-dependent



SCHOOL OF ATS

PROBLEM-BASED LEARNING

- Pre-course attachment
- Trainees given problem-based projects
- Better appreciation of real world before lessons
- Instructors able to assess level of preparedness and adjust training methods accordingly

SCHOOL OF ATS

ROLE-PLAY EXERCISES

- Role-play exercises in classroom and during practical training
- Provide different role perspectives
- Prepare trainees for on-the-job training environment



SCHOOL OF ATS

CASE STUDIES

- Cases presented during
 - Discussions
 - Practical Training
- Expose trainees to real world issues
- Reinforce application of concepts



Combining Best Practices of Academia and Industry

SCHOOL OF AMS

- Collaboration with IHLs and Industry
- Combination of theories and practical experience
- Lectures, discussions, projects, site visits



Combining Best Practices of Academia and Industry

SCHOOL OF AMS

- Joint programmes with IHLs
 - Graduate Diploma in Aviation Management (with National University of Singapore)
 - Master of Business Administration in Aviation (with Embry-Riddle Aeronautical University)



Tailoring Programmes to Industry Needs

SCHOOL OF AMS

- Specific industry requirements and inputs
- Sharing of best practices by experts and practitioners
- Site visits to gain first-hand insight
- Industry-related programmes on
 - Airport Operations and Management
 - Safety Oversight and Management
 - Aviation Security Management



Leveraging Technologies



SCHOOLS OF ATS

360° Aerodrome Control Simulator

- Computer-generated visual scene and targets
- ICAO and national performance standards
- Electronic flight progress strips and aeronautical information
- Airfield lighting control panel, integrated voice communication and control system
- Day and night operations, all weather conditions, emergency situations



Leveraging Technologies



SCHOOL OF AES

Airport Foam
Tender
Driving Simulator

- Motion platform simulator
- Hazardous driving situations in a virtual environment
- Day and night operations, all weather conditions, emergencies
- Recording function a useful learning tool



Information Exchange and Sharing of Views

- Conferences, Seminars, Workshops,
 Meetings as platform for
 - Information exchange and sharing of views
 - Dialogue among authorities, regulators, operators, service providers, industry
 - Yield insights and consensus for effective action to address challenges



Information Exchange and Sharing of Views

- Recent Conferences and Forums
 - World Civil Aviation Chief Executives Forum, August 2009
 - Aviation Leadership Summit, Feb 2010
 - Aircraft Accidents Crisis Preparedness and Management Conference, March 2010
 - International Air Law Conference,
 April 2010



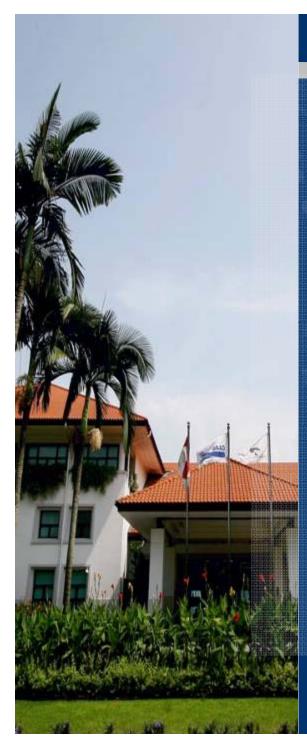
Conclusion

 Importance of staying relevant in training the next generation of aviation professionals, by keeping abreast of training needs, implementing new methodologies, embracing advanced technologies, and working closely with all stakeholders



THANK YOU





SINGAPORE AVIATION ACADEMY

VISION

To be the world's premier centre of learning for civil aviation

MISSION

To provide the highest quality of training, and the sharing of knowledge and experiences, for the advancement of international civil aviation

