MEETING THE TRAINING NEEDS OF THE NEXT GENERATION -

SAA’S PERSPECTIVE

Next Generation of Aviation Professionals Symposium
1-4 April 2010
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
**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
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
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
School of Airport Emergency Services

Airport Fire Safety & Fire-fighting 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
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<tr>
<th>Year</th>
<th>Award</th>
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<tbody>
<tr>
<td>1977</td>
<td>ASEAN Centre of Excellence</td>
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<tr>
<td>1978</td>
<td>ICAO/UNDP Asia Pacific Regional Training Centre</td>
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<td>1996</td>
<td>Flight International Aerospace Industry Award</td>
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<td>2000</td>
<td>34&lt;sup&gt;th&lt;/sup&gt; ICAO Edward Warner Award</td>
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Benefits and Challenges of Competency-Based Approaches

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
Benefits and Challenges of Competency-Based Approaches

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
Benefits and Challenges of Competency-Based Approaches

ROLE-PLAY EXERCISES

- Role-play exercises in classroom and during practical training
- Provide different role perspectives
- Prepare trainees for on-the-job training environment
Benefits and Challenges of Competency-Based Approaches

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

- 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

- 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

SCHOOL OF AMS
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
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