Next Generation of Air Traffic Safety Electronic Personnel (ATSEP)

IFATSEA
NGAP symposium March 2010, Montreal
• IFATSEA Overview
• ATSEP views of the future sky
• ATSEP next generation profile
• ATSEP training needs
• ATSEP future problems / solutions
• Conclusion
• Founded 1972
• More than 20,000 ATSEPs (Air Traffic Safety Electronic Personnel)
• 60 Countries
• Non political & Non industrial & Democratic
• Promote Safety & Efficiency in Aviation
• Development of high standards technology
• Skill, Knowledge & Professionalism
• Cooperate closely with international Aviation bodies
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ATSEP Standard, Definition & Functions


ILO : ISCO 08 Standard – revised in 2008 with added duties

Category 3145
Air Traffic Safety Electronic Technicians include Engineers

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ATSEP views of the future sky

- More technologies to meet requirements
  - SESAR and NextGen rely on technologies to reach targets
  - Technology is and will be the cornerstone of ANS
  - Growing role and responsibilities for ATSEPs
- More data exchange / less voice communications
  - ANS to aircrafts data exchange. (datalink, ADS)
  - Greater interoperability between countries and stakeholders
  - Increase monitoring and control
- SWIM
  - Global network management (including deployment and integration)
  - Inter-countries networks integrity
  - Inter-countries networks security

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ATSEP views of the future sky

ATSEP Responsibilities (Tomorrow)

- ATM global concept,
  - Performance base (ATMRPP)
  - Human centered
- SESAR & NextGen objectives (ConOps)
- Collaborative Data Management and CDM
- Operational integrity of all ANS/ATM systems/equipments
- ANS/ATM systems becomes global
- Reliability, security and safety
- Safety Management System (SMS)
- Team Resource Management (TRM)
- Lessons learned from Uberlingen, Milano, Guam, etc...
ATSEP current data

Age: (10 countries)

- <20: 1%
- 20-25: 3%
- 25-30: 6%
- 30-40: 21%
- 40-50: 36%
- 50-60: 28%
- 60-65: 1%
- >65: 0%

28% have 50-60 Y of age
ATSEP next generation profile

ATSEP current data

Nb of years before retirement, ATSEP (FAA) - 2008

46% of workforce will be gone over the next 10 years.
nb years as Canadian ATSEP (YOS)
ATSEP Profile – Evolution

- Systems managers
- Systems technical operators
- Road warriors
- In-depth technology knowledge
- Emergency response
- Global networks / network security
ICAO ATSEP Training Manual: DOC 7192

Progression of ATSEP Training

Continuation Training

Developmental Training

System/Equipment Rating Training

Qualification Training

Basic Training

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ATSEP training needs

- Common Core Basic & Qualification Training
- Certified/accredited training programs
- Global and harmonized competencies
- Proficiency checkouts
ATSEP future problems/solutions

- **Hiring**
  - Smaller pool of interested candidates for electronic profession

- **Retention**
  - Lack of profession recognition

- **Standardization**
  - Common core accredited training
  - Proficiency checkout

- **Regulation**
  - Personnel competency
  - Accreditation/authorisation to practice
ATSEP Liability (Today & Tomorrow)

ATSEP have a major impact on Safety

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The work of ATSEP is global:

- ANS systems interconnected (multiple ACC, multiple FIR, inter regional, intercontinental)
- ANS systems connected to FMS (SESAR & NextGen)
- The 36 session of ICAO Assembly endorsed “the concept of establishing licensing requirements for ATSEP”.
- ATSEP global safety critical tasks requires global harmonized regulations.
- IFATSEA welcomes ICAO “Next Generation of Aviation Professional” task force and provide its full collaboration and support.
ATSEP future problems/solutions

On Global level our ATSEPs need

• A Common Core Content of training

• Regulation for personnel competency (ICAO Annex 1)
  • authorisation to practice

• English language

• Regulation for system security

• Regulated certification of Systems/equipment

• Common International Standards and Procedures (ICAO SARPs)

• Compatible Air Navigation Systems
ATSEP playground is already global. International regulations on training and competencies are mandatory to a safe, secure and efficient aviation industry.

IFATSEA is committed to it.

Questions or comments
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