

SECURITY MANAGEMENT SYSTEMS - Sems

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15 - 19 JULY 2013 • SINGAPORE

IATA Training & Development Institute

KNOWLEDSE - EXPERIENCE - NETWORKING - SKILLS - RESULTS

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IATA Training & Development Institute

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Security Management Systems

Module 2
IATA's SeMS Initiative

IATA Training & Development Institute KHOWLEGGE • EXPERIENCE • NETWORKING • SKILLS • RESULTS



Module objectives

Although we may sometime refer to "Airlines", concepts and guidance are equally applicable to Airports.

At the end of this module you will be able:

7 To understand and describe specific Aviation Security terminology and introduce IATA's initiative & terms of references regarding Security Management System.

	Description of the control of the co
Topics covered	
7 Defining SeMS7 Genesis of SeMS	

7	Tho	ΙΔΤΔ	SMAS	Project

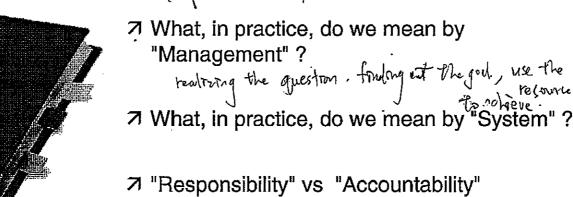
- 7 The Way Forward: IATA Integrated Airline Management Systems (I-AMS)
- 7 Challenges

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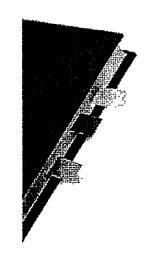
SeMS Definition Begin but understand the objective level the end in your wind.



Charge | anguage > problem to solve > Charlenge to overcome



SeMS Definition



- ^フ "Quality" vs "Security"
- 7 From "Binary" compliance to "Risk/Performance Based" regulations
- オ "Approved" vs "Accepted"

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Re-Thinking Security

Problems with traditional vision of Security:

- 7 Lack of communication and co-operation between stakeholders (especially between Governmental Organizations and Airlines/Airports)
- ➢ Security information is Secret & related Risk assessment is mainly carried out by Authorities
- Security viewed as imposed by external parties rather than integral part of aviation
- 7 Focused on meeting minimum requirements
- 7 Reactive



Defining SeMS

SeMS is a standardized approach for implementing the security processes outlined in our air carrier security Programme, SeMS' business like approach is helping us integrate security into the culture and guiding principles of our corporation."

Rich Davis, Director, Corporate Security United Airlines

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Security Management Systems - SeMS



Defining SeMS

"In times of steadily rising real security threats and legal security restraints, SeMS will help in making security processes more effective, proactive and far reaching by promoting a business-like approach to security."

Peter Andres Vice President, Corporate Security
Lufthansa German Airlines



Defining SeMS

"The documented system of an Operator based on threat assessment to ensure security operations consistently fulfill all requirements mandated in the National Civil Aviation Security Programme of the State of the Operator in the most efficient and cost effective manner considering the operational environment of the airline."

IATA Reference Manual for Audit Programmes (IRM)

1nd Edition

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Defining SeMS

Constructure Process

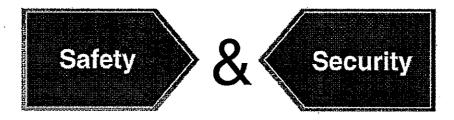
- A performance-based approach to aviation security,
- Based on threat assessment,
- Most efficient, effective and reliable security measures and procedures are implemented in the operational environment, as applicable.

Working Definition IATA Security Department



Getting the "Picture"

- 7 In many States there is no difference between SAFETY and SECURITY



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Aviation Security ergon omics

> A combination of measures and resources (human and material) intended to safeguard civil aviation against acts of unlawful interference*

confortable and natural

*Act or Omissions which may jeopardise or put in danger: passengers, crew, aircrafts or airports



Few examples...

- 1 unlawful seizure of aircraft in flight-on the ground
 - 2 hostage taking on board aircraft or on aerodromes
 - forcible intrusion on board an aircraft, at an airport or on the premises of an aeronautical facility
 - introduction on board an aircraft or at an airport of a weapon, hazardous device, or material intended for criminal purposes
 - communication of false information such as to jeopardize the safety of an aircraft in flight or on the ground, of passengers, crew, ground personnel, general public at an airport or on the premises of civil aviation facility.

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Unfortunately, we also have....



Angeralli as euroelo de deservición de la company de la co

Unruly/Disruptive" Passengers



"MANPADS"

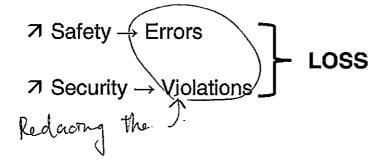




SeMS in summary

7 Based on proven Safety

Management Systems (evolution)



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Security Management Systems - SeMS



SeMS in summary

- → Business approach to Security
 - 7 Goals and objectives
 - Processes to attain goals
 - 7 Flexible
- 7 Becomes integral part of the organization
- Whole of Business solutions for security problems, not security solutions alone
- 7 SeMS formalises existing organisation disciplines



Security Management Systems

Module 3
The Management System (MS) in SeMS

IATA Training & Development Institute KNOWLEDGE · EXPERIENCE · NETWORKING · SKILLS · RESULTS



Module objectives

At the end of this module you will be able to understand and describe:

- specific Aviation Security Management System dimensions,
- 7 Elements of a MS.
- 7 Roles of AVSEC international organizations,
- Aviation Security Measures.

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Topics covered

- **オ Aviation: A System of Systems**
- 7 3 Dimensional Management Systems
- → Management Systems Elements
- → The role of International Organizations
- 7 IOSA's Commitment to Management Systems
- Aviation security measures

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Aviation: A System of Systems

System Definition (Compact Oxford Dictionary):

- A set of things working together as a mechanism or interconnecting network
- 7 Computing a group of related hardware units or Programmes or both, especially when dedicated to a single application.
- 7 This is how an airline operates
- An organized scheme or method
- 7 What we need to ensure through Management Systems





Airlines: A System of Systems

An Organizational Management System

- 7 Structure
- 7 Systems (triclude subsystem)
- **尽** Resources
- 7 Capabilities @ experience

eig: 75% manpower use as 100% manpower dynamic routine.

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Svstem

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A Safety Management System

A Quality Management System

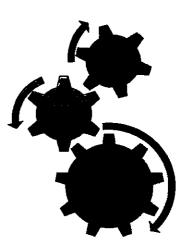
A Security Management System

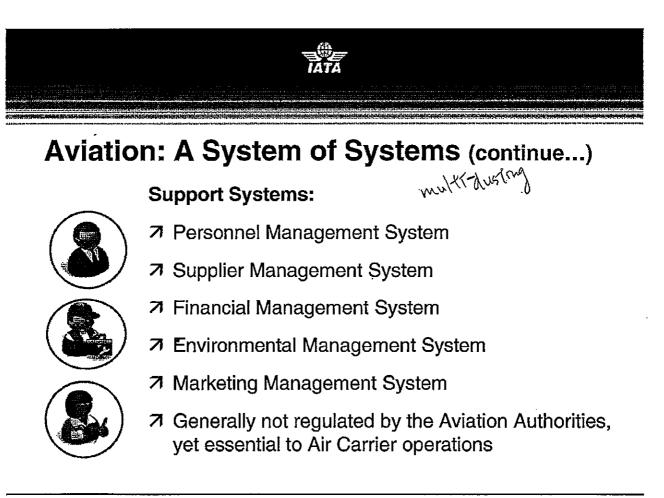
An Enterprise Risk Management



Aviation: A System of Systems (continue...)

- 7 Documentation Management System
- Flight Operations Management System*
- 7 Cabin Operations Management System*
- 7 Aircraft Maintenance Management System
- Dispatch Management System*
- 7 Cargo Operations Management System
- 7 Ground Handling Management System
- Airside Management System
- Landside Management System* Airline operations





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3 Dimensional Management Systems

Most Management Systems are 2 dimensional

Organizational

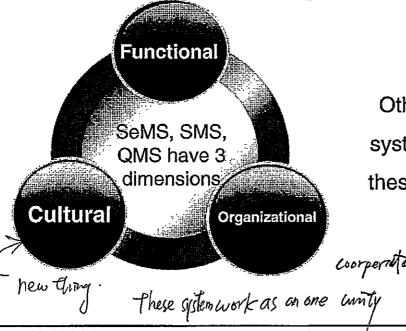
- ☑ Operational control
 and supervision
- □ Resource allocation people finance

Functional

- カWork process design and documentation
- zi Teomical naming
- র Control of process & service quality
- Measurement, analysis & evaluation



3 Dimensional Management Systems



Other management system may not have these three elements.

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3 Dimensional Management Systems

Organizational

- 7 There is an Accountable Executive

 - オ CEO/COO (水平(清吟) ア発売 オ No more plausible deniability
- □ Security Manager (Head of Security)
- ∇ Support Staff
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- 7 No need to implement a specific organizational model, if the current one..
 - 7 works
 - is clear and concise
 - 7 is GOOD!

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3 Dimensional	Management	Systems
Functional `		
	rational functions	
¬Supports the entire	enterprise	\
フExamples: フ Crew layover threa	t assessment 🧳 .	eat Image Brojections
Pre-flight security bScreener testing wi		
7The Security Depar	•	
• •	ations, it manages Se	curity through oversight
7 Centralized control	, but decentralized de	livery
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3	Dimensional	Management	Systems
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Cultural	Skill t knowledge + attitudes			
7 Each employee must demonstrate:				
→ Healthy Attitudes				
∇ Self-Discipline				
7Each employee must be a threat and remain constant lapses and acts of unlawful	tly vigilant for potential security			
7Culture IS – "the way there" which includes no	•			



3 Dimensional Management Systems

Cultural

- 7 The Challenge is to "convince" line and operational managers that security is part of their responsibilities
- 7 This is achieved by:

 - 7 Assigning Security responsibilities in all systems
- 7 Culture cannot be changed quickly, but influenced over time.

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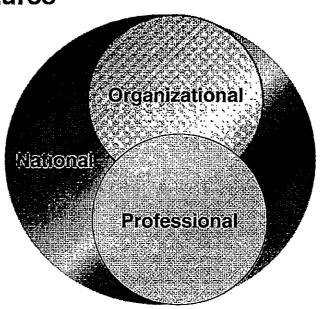
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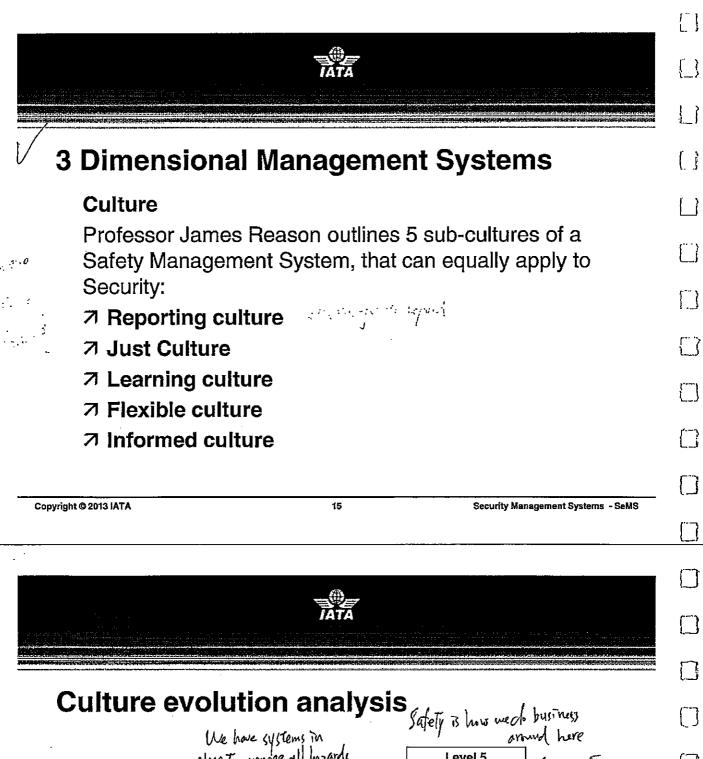
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Types of Cultures





Culture evolution analysis

We have systems in place to manage all hazards

Level 5

CALCULATIVE or BUREAUCRATIC

Level 1

PATHOLOGICAL

Level 2

REACTIVE

Level 2

REACTIVE

Level 2

REACTIVE

Level 2

REACTIVE

Level 3

Recurry 75 supposture, we do
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Possible Outcomes

	Pathological	Bureaucratic	Generative
Information	Hidden	Ignored	Sought
Messengers	Shouted	Tolerated	Trained
Responsibilities	Shirked	Boxed	Shared
Reports	Discouraged	Allowed	Rewarded
Failures	Covered up	Merciful	Scrutinized
New Ideas	Crushed	Problematic	Welcomed
Resulting Organization	Conflicted Organization	Red tape "Organization"	Reliable Organization

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3 Dimensional Management Systems

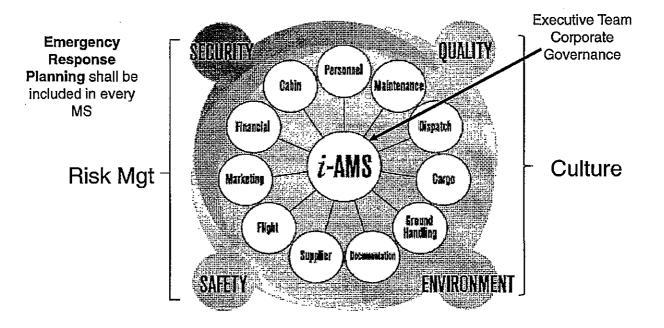
Organizational, Functional and Cultural in AVSEC

- 7 An independent Security organization
 - 7 Separated from other systems
 - → Unbiased view
 - ⊼ Expert view ←
 - 7 Provide the Security perspective
- It's transforming the Security department from the necessary evil to a core element of the organization

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3 Dimensional Management Systems



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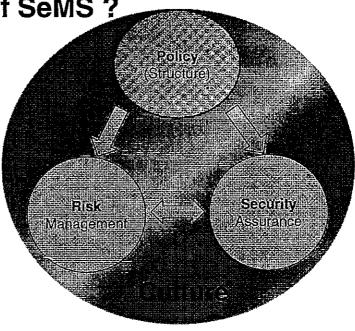
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The 4 Pillars of SeMS?

As for the SMS, we can assume the same for SeMS...





Security Management Systems

Module 4 Building a Security Organization

IATA Training & Development Institute KNOWLEDGE - EXPERIENCE - NETWORKING - SKILLS - RESULTS



Module objectives

At the end of this module you will be able:

7 To understand, describe and plan an Aviation Security organization & the related management.

management commitment

Security structure - department

Selection of personnel

Training Security Americass Training

Commiscation

Contracted Service

Human Resource Management/Development

HRM& HRD



Topics covered

- Introduction
- Executive Commitment to Security
- Head of Security
- Security Department
- Security Staff Selection
- 7 Training
- Security Awareness Training
- 7 Communication
- Contracted Services

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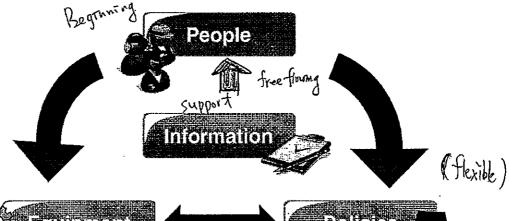
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Introduction



The 4 Critical element of Aviation Security

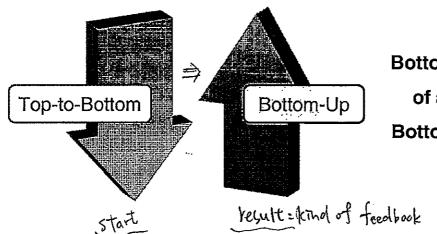






Executive Commitment to Security

SeMS addresses AVSEC both:



Bottom-up is a result of a solid Top-to **Bottom Commitment**

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Executive Commitment to Security

Senior Management:

- 7 Is the Accountable Executive for Security
- 7 Establishes the organization's attitude on Security
- 7 Is the Originator of the Security Culture
- 7 Is Responsible to set (approve) the acceptable AVSEC standard



Exe	cutive Commitment to Security
	nior Management AVSEC policy content (approved & endorsed by the CEO):
☑ T	The organisation's core values
	The fundamental beliefs & core elements of the security approach
Ø 5	Senior management commitment
1 S	Security organization
☑ F	Responsibility and accountability of all employees
☑ (Oversight & Continuous improvement
☑ F	Reporting system and No-Blame policy
	Clearly communicated expectations & objectives of the security process
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Executive Commitment to Security

The Senior Management AVSEC policy must be:
¬In line with overall corporate vision and mission
⊲Put in writing
⊲Included in the organization's security Programme
→ Actively promoted
□ Living: Reviewed and updated as necessary!!
La continuous changing

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Head of Security

Section 1 - ORG 1.1.2 (Organization & Accountability)
Section 8 - SEC 1.1.2

The Operator shall have an appointed Head of Security who has direct access to the highest management level of the company and, regardless of the reporting structure, is responsible for the development, 'Implementation and maintenance of the Security Programme

IOSA Standards Manual

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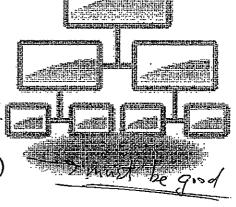
Head of Security

make sure about the information delivery (multiple ways adopt)

Team Leader or Senior Captain*

- Reports directly to Senior Management

 - In times of crisis, communication has to be easy ____ To realized and operated.
- Aviation Security, or both (preferable)
- Respected by all staff
- 7 Clear list of responsibilities



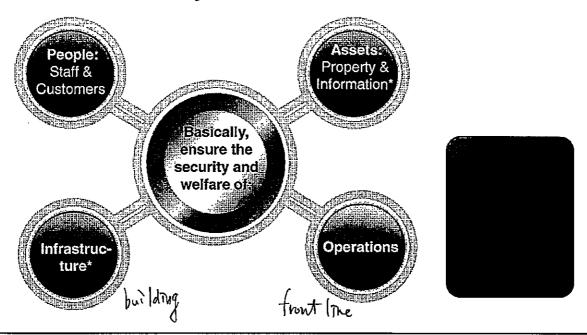
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The continues of the co		В применя
Head of Security		
Key Tasks:	. /	
∇ Formulate overall second structure Structure 1	urity strategy & se	ecurity department
→ To be approved by se → To be approved by the transfer → To be app	nior management	
Define company-wide CEO/Senior Executive	_	ds-(to be approved by the
7 Direction for line mana	agement	
7 Consultation and reme	ediation for line mana	gement
Promote security culture Security Progreguirements		nt with national
→ Build relationships wit stakeholders – ensure	•	_
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Head of Security		ANNE SERVICE E SER ERRE SERVICE E EN E ANNE SERVICE E EN ERRE SERVICE E EN E

Key Tasks (2):

- 7 Threat Assessment and Risk Management oversight
 - □ Implement appropriate countermeasures based on risk (the implementation) of which shall be approved by senior management)
- 7 Responsible for internal Quality Control mechanisms
- Develop & oversee the security training Programme
- 7 Develop & manage information systems
- 7 Ensure that all contractors have implemented security measures to acceptable standards*
 - * May be accomplished together with the Quality Management function_



Head of Security



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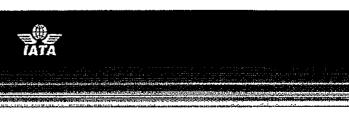
Security Department: Roles and Responsibilities

Supervision Oversight

- Central of point of delegation & control to decentralized operational delivery
- Information collection, analysis & dissemination
- Based on data gathered, establish and/or review the security policy
- 7 Policy dissemination

How to manage the information

- → Consider Security Sensitive Information (SSI)
- 7 Training to comply with policy
- 7 Promote the Security Culture



Security Depar	tment: Consi lap responslatity	derations
Clear terms of reference the Head of Security		e responsibilities of
	ructure	
□ ZLine Management-Section is established and under a Cross-functionality □ Cross-functionality	derstood	nt relationship clearly
¬Relationship with all ——————————————————————————————————	l departments of th	e organization
	ased and foreign s	tations
¬Security can be delided departments under the delided departments under the delided departments under the delided deli	•	•
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Security Department

Organizational Chart Guidelines

- 7 Direct reporting line between Head of Security and Senior Management
- → Departmental/line managers should report to the Head of
- → Staffing volume and job description must account for times of crisis. Consider:
 - Specific responsibilities
 - Appropriate workload
 - 7 ERP (Contingency Plan) Organizational Chart

enterprise resource	plannin	9
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Security Department

Organizational Chart Guidelines

- Non-operational but critical elements must be considered
 - 7 "Dotted line" in or out of Security Department

These include:

- 7 Risk Management
- 7 Training
- 7 Communication
- □ Quality
 □
- **7** Emergency Management
- 7 Others

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Security Staff Selection

a bot of skill
to select a Security Staff
and makes them to

Not always the Security Department's responsibility, however:

- Final say on who is selected, generally rests with the Head of the Security Department (Direct report)
- Security staff are on the frontline ensuring protection of Staff, Customers and Property
 - → Hiring the wrong people is expensive

-Pell the reality to test -the honesty

¬You need to understand the process, be part of it!



Security Staff Selection

Selection Process Elements

- 7 Job Description
- 7 Candidate Selection/Interview
- Background Check
- 7 Performance Appraisal



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Security Staff Selection

Job Description

- Proper job description will attract suitable candidates
- 7 The elements of a good job description:
 - Summary of the job
 - Z List of duties
 - 7 Overview of reporting structure
 - Required qualification for the positions
 - Training and experience required
- Management job descriptions must be in SeMS



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Module 5 . Human Factor

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Module objectives

At the end of this module you will be able:

7 To understand and describe Human Performance and Limitations, and how they can affect Aviation Security.

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TATA	<u></u>
Topics covered `	[
 ✓ Fundamentals of Human Factors ✓ Human Factors Management ✓ Ergonomics 	
7 Resource Management 7 SHELL Model	
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Fundamentals of Human Factors	
Fundamentals of Human Factors 7 ICAO Annex 17 Definitions 7 Human Factors principles. Principles which apply to design, certification, training, operations and maintenance and which seek safe interface between the	
Fundamentals of Human Factors ICAO Annex 17 Definitions Human Factors principles. Principles which apply to design, certification, training, operations and	



Fundamentals of Human Factors

- Human Factors help determine the limitations of human performance
- 7 Helps manage human error in Security
- 对 Helps improve efficiency
- 7 Look at humans in an interactive role with its surroundings
 - → E.g. ground handling shift workers fatigue, weather, equipment

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Human Factors Management

Ensuring Human Factors are considered to:

- □ Define Safety / Security Regulations
 □
- Integrate Human Factors knowledge in the design and certification process of equipment (such as in security screening)
- 7 Consider Human factors when designing the infrastructure
- → Develop and define procedures designed to enhance error resilience
- Provide guidance for selection, training and assessment, and performance management

IATA	<u>{}</u>	
Resource Management	{ }	
Roster/Shift Management		
□ Roster rotation needs to be carefully designed to avoid "quick returns"		
7 Quick rotation to avoid multiple consecutive night shifts		
→ Duty Periods limited to 8 hours x day		
Consider high throughput periods – peak screening: oversight Security Contractor rosters		
7 Task Rotation	<u> </u>	
→ Rest periods during duty periods		
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Resource Management		
	Γ_	
Roster/Shift Management		
_	, <u> </u>	
7 Provide adequate rest facilities		
Provide adequate rest facilitiesConsideration of commuting times		
 Provide adequate rest facilities Consideration of commuting times Give some choice to your staff based on preference 		
Provide adequate rest facilitiesConsideration of commuting times		

8



Resource Management

Performance Management

- 7 Team resource management
 - 7 Commitment, communication and co-operation
 - 7 Team performance evaluation
- → Effectiveness (Threat detection)
- ⊅ Efficiency (Time)

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Resource Management

Team resource management

- Many security functions are based on teamwork

 - 对 Division of responsibility
- → Hire team players (commitment)
- 7 Train teams instead of individuals
 - 7 Confidence of peers
 - → Team problem solving attitude
- 7 Don't forget: a team is made up of individuals
 - → With different styles



Resource Management

- → Motivation
- → Some formulas...
 - → Performance = Capability x Motivation

 - Motivation = Personal Factors x Information x Rewards (includes Bonuses) x Type of Job x Discretionary Power を対する

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Resource Management 7 Motivation: morality. 7 Maslow's Hierarchy of needs creativity. spontaneity problem solving, tack of prejudice. acceptance of facts Self-actualization self-esteem, confidence, achievement, respect of others. respect by others Esteem friendship, family, sexual intimacy Love/belonging security of: body, employment, resources, morality, the family, health, property Safety breathing, food, water, sex. sleep, homeostasis, excretion

Physiological



Herzberg's Motivators and Hygiene Factors

Factors for Satisfaction

Achievement

Recognition

The work itself

Responsibility

Advancement

Growth.

Factors for Dissatisfaction

Company Policies

Supervision

Relationship with Supervisor and Peers

Work conditions

Salary

Status

Security

്രം)ob satisfaction and job dissatisfaction are not opposites.

7 The opposite of Satisfaction is No Satisfaction.

¬The opposite of Dissatisfaction is No Dissatisfaction.



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Step 1: Eliminate Job Dissatisfaction

Herzberg called the causes of dissatisfaction "Hygiene factors". To get rid of them, you need to:

- ¬Fix poor and obstructive company policies.
- 7 Provide effective, supportive and non-intrusive supervision.
- □ Create and support a culture of respect and dignity for all team members.
- 7 Ensure that wages are competitive.
- ¬Build job status by providing meaningful work for all positions.
- 7 Provide job safety & security.

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Step 2: Create Conditions for Job Satisfaction	[_]
To create satisfaction, motivating factors associated with work ("job enrichment") shall be address. Every job should be examined to	
determine how it could be made better and more satisfying to the person doing the work. Things to consider include:	
7 Providing opportunities for achievement. 7 Recognizing workers' contributions.	
□ Creating work that is rewarding and that matches the skills and abilities of the worker.	
☐ Giving as much responsibility to each team member as possible. ☐ Providing opportunities to advance in the company through	
internal promotions. 7 Offering training and development opportunities, to become a more knowledgeable professional and be a "Better Person".	
more knowledgeable professional and be a Detter Ferson.	
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TATA	ļ
Resource Management	
Motivation in practice	
Acknowledgement and rewarding of outstanding performance Attractions as a fitter into Action of the circle.	<u> </u>
Attractiveness of the jobFairness	

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7 Opportunity to advance and get promoted

7 Financial rewards for consistent achievements

7 Advance training to facilitate promotion

→ Appropriate remuneration

✓ Security awareness session✓ Job rotation increases interest

→ Delegate other tasks



Resource Management

Motivation in practice

- ▼ Team meetings allow members to express to voice their views
- Provide transportation, car parking
- Reasonably priced dining arrangements
- 7 Well-tailored uniform
- 7 Badge or medals for superior achievement
- Make security more visibleWorkplace inspection and ID Checks

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Resource Management

Staff Retention

- Motivated staff will be less tempted to leave
- □ Experience staff performs better
- Recruitment and training is more expensive than giving a high performing screener a raise
- → Important indirect costs:
 - All those trained to be security personnel will have had access to security sensitive information
 - ➢ Ensure proper termination processes
- 7 Reality: best people will leave



Resource Management: Human Error

- 7 Human error may be defined on basis of 3 dimensions:
 - → Skill based behaviour (routine tasks requiring little attention and allow other tasks to be performed simultaneously),
 - ¬ Rule based behaviour : normal activities requiring decision making,

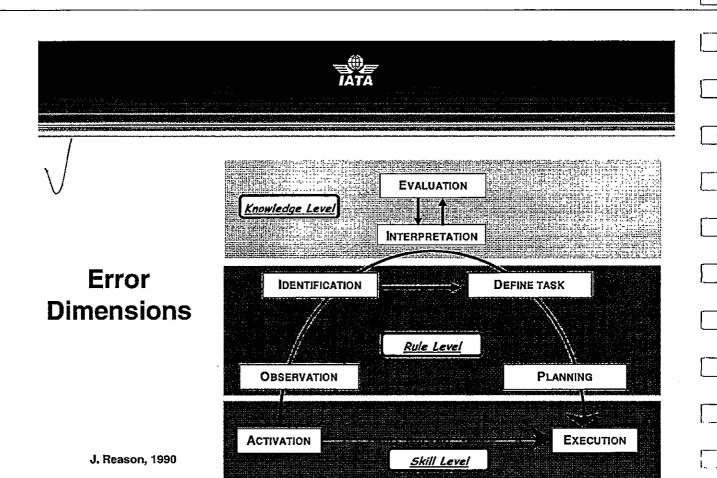
 - J. Rasmussen 1983

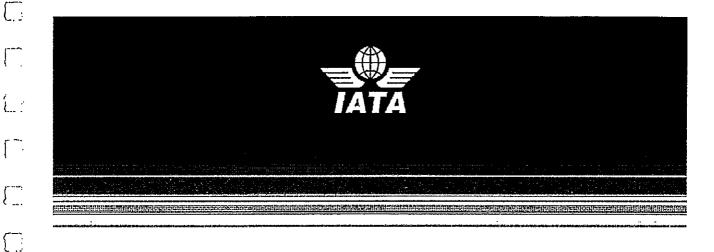
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Security Management Systems

Module 7 Integrated Risk Management

IATA Training & Development Institute KNOWLEBGE · EXPERIENCE · NETWORKING · SKILLS · RESULTS



Module objectives

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At the end of this module you will be able:

7 To understand and describe principles & benefits of Integrated Risk Management, which means integrating in a unique assessment all risk facing a company/operator.



Topics covered
7 What Is Integrated Risk Management (IRM)?
7 What are the Benefits?
A Few Certainties about Risk Management
Operational Risk vs. Enterprise Wide Risk
→ Next Steps → Next Step



Review: What Is Risk Management?

- A process that identifies a company's risk exposures and seeks to minimize risk levels
- Integral part of organizational processes
- A Critical component of SeMS
- ① 7 Threat Assessment drives all hazards approach
- Risk Management balances risk and opportunity
- 7 Informed decision making
- Explicitly addresses uncertainty
- □ Systematic, structured and timely process

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Review: What Is Risk Management?

- 7 Based on best available information
- 7 Takes human and cultural factors in
- 7 Transparent and inclusive
- Dynamic and iterative
- Facilitates continual improvement
- It is NOT the purchase of insurance that is only one way to finance a company's risk exposure

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Why is important & How is Linked to Corporate Governance?

- Board must generally manage the risks of company
- 7 Corporate governance laws now:
 - Requires board to identify risks and implement systems to manage them, and
 - ¬ Require review of adequacy and integrity of company's internal control systems.
- 7 Compliance systems need to be integrated with Governance and Risk Management



Who are the Stakeholders?

- □ Board of Directors
- Shareholders
- Regulators
- Customers
- Sub-Contractors
- Rating Agencies
- 7 Media

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What are the Benefits?

- Creates Value:
 - Make consistent and informed decisions across the company

 - 7 Reduce insurance premiums

 - → Protect your bottom line
 - ¬ Safeguard your reputation, brand



A Few Certainties about Risk Management

- Risk is the chance of something happening that impacts organizational objectives
- 7 Hazards and threats can create risks and both can lead to losses
- No one airline/airport risk management approach is the same as another, nor should it be
- 7 Foreseeable risks must be identified

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A Few Certainties about Risk Management

- If a significant risk is foreseeable but it is not reported, it is a severe managerial error,
- 7 The aim is that there should be no surprises,
- Don't replace one risk with a risk of another kind,
- 7 The greatest risk in business is to take no risk at all.

> identifying wrongly



What Is Integrated Risk Management?

- may have
- Managing risk across the entire company
- Applying principles both vertically and horizontally in a company
 - → Cross functionality is critical

 → Cross fu
- → Establishing a company-wide culture of risk management
- Aligning risk appetite with company strategy tolerance levels need to be established
 - ⊼ Keep it simple

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Airline Integrated Risk Management

Principal Risk Exposure Areas

Financial Legal/Compliance Strategic Reputation Operational

- → Operational risk exposure is a key component of an airline's overall exposure
- → This is our focus

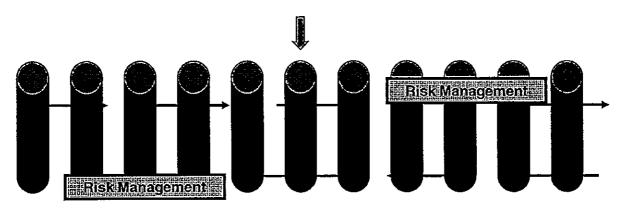
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Integrated Risk Management/IRM

Security Management System



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Operational Risk

- Airlines/airports focus on Operational risks due to the hazardous nature of operations
- Operational risk is a component of company's overall, or enterprise wide risk
- Security is a component of operational risk, as is flight ops and safety, etc.
- Management systems are in place, e.g. SeMS, QMS, SMS, but not fully integrated



IRM Process

- 7 Establish Risk Management Framework
- 7 Communicate and consult
- → Establish the Contexts
- ⊿ Identify risks
- → Analyze risks
- Evaluate risks
 - 7 Treat risks
 - 对 Monitor & review

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Risk Management Process







IRM Step 1

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Risk Management Framework

¬Begin at the Top

- → Board must be engaged and promote it
- 7 Establish risk appetite, priorities, objectives, risk model
- 7 Link with business/ corporate strategy
- Senior management must set tone & direction of the IRM Programme
- 7 Establish Risk Management Committee
- 7 Define and communicate roles and responsibilities
- 7 Identify Risk Champions each department

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IRM Step 1

- 7 Definitions & Roles
- 7 Chief Risk Officer
- 7 Risk Management Committee
- 7 Risk Champion Pethod
- カ Risk Owner 丁島
- Centralized control (policy, process, framework) but decentralized operations



IR	M Step 2 – Communicate & Consult
71	Involve all stakeholders – internal and external
7 (Use many mediums – email, document, poster
	Engage those most likely to contribute – 'Risk Champions' in each Department
71	Establish committees
7	Meet and discuss regularly
71 (Communications plan essential
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IRM Step 3 – Establish the Contexts

- What are the external and internal environments the organization operates in
- What are the hazards and potential risks that would impact an organization's objectives
- 7 How does the organization deliver risk management
- What levels of risk is the company prepared to accept when balanced with opportunity?

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Security Management Systems

Module 9 Quality Assurance of SeMS

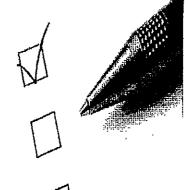
IATA Training & Development Institute KNOWLEDGE - EXPERIENCE - NETWORKING - SKILLS - RESULTS



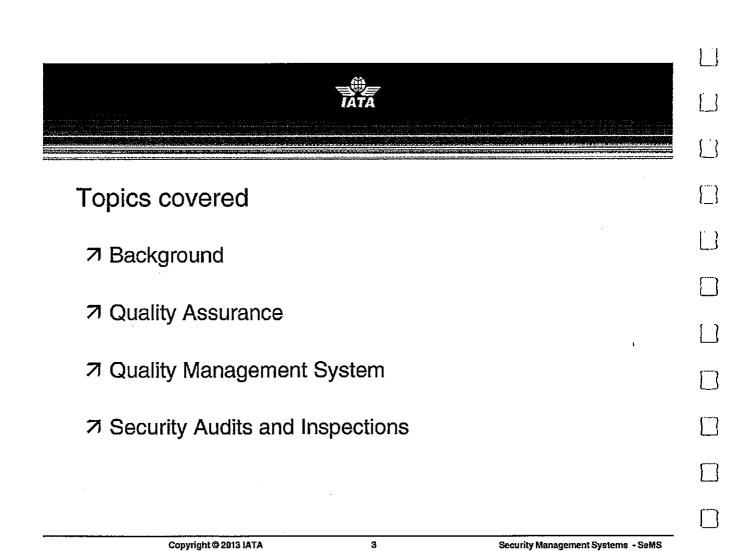
Module Objective

At the end of this module you will be able to understand and describe:

- 7 What is Quality Assurance
- Goals of Quality Assurance
- 7 The Quality Management System, as a mean of Quality Assurance
- 7 The sharing of responsibilities within an Operator as far as QC is concerned









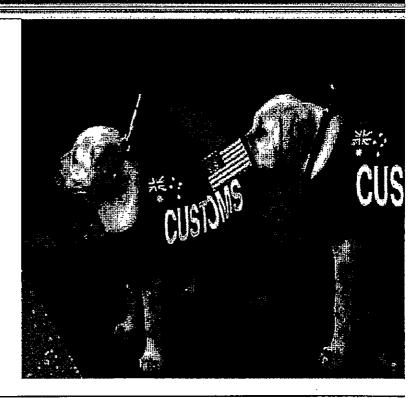
Background

- 7 Operational compliance must be looked at from an organizational point of view
- A Quality Assurance is an internal independent assessment
 - 7 Corporate Quality Assurance function is independent of the Quality Control responsibilities
- Quality Assurance verifies compliance on behalf of the accountable executive
 - All the technical components are audited (measures, training, quality control, etc.)
- Basically, it provides a solution to the question:



Background

How do you control your Quality Control mechanisms?



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Quality Assurance

- 7 Establish a dedicated Quality department
- 7 The Quality department is "operationally independent" to ensure that auditors remain objective and immune from bias due to conflicting responsibilities
- 7 The Quality department looks at all operations, not just AVSEC.



	ĪĀTĀ	
Λ	Quality Assurance (QA)	
	Quality Assurance programme	
	Appointment of a highly qualified manager to oversee the program	
	7 Operational independence of the quality assurance function and staff	
	Documented operational manager responsibility to implement corrective actions	
	Design lines of communication and reporting to senior management	
	QA is a part of the organizational Quality Management System	

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Quality Management Systems

- - → Organizational structure
 - 7 Accountabilities
 - □ Corporate resources
 □
 - 7 Processes and Procedures
 - 7 Under senior management control 7 It is a 3 dimensional system



Quality Management Systems

7 Objectives of QMS

very fast assessment and suproucut

- 7 Continuous improvement
- 7 Proactively enhance Security through the organization
- - Complimentary to SeMS and strives to achieve the same goal
 - 7 An acceptable level of operational security
 - 7 Reduces redundancy in Quality Assurance mechanisms.

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Security Management Systems - SeMS



Quality Management Systems

- 7 Objectives of QMS
- - → Management system

 - 7 Processes
 - □ Operational procedures
 □
- - Zevel of integration will vary based on organizational structure



Quality	Mana	agement	System
---------	------	---------	---------------

Why?

- Central component to ensure regulatory compliance
- Senior Management drives the message to division head to comply with regulation
 - - Terror proofs processes and procedures for all staff to comply
- Verifies a specific system operates as desired in the organization

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Quality Management System

Why?

¬QMS process is auditing

¬Many types of audits within QMS:

- Compliance audit (with regulators and internal procedures)
- Product quality audit
- → Service quality audit
- 7 Process audit
- ¬ System audit (management system)



EXAMPLE

Responsibilities of Airline's Managers, regarding Security Compliance



All PHs

7 Annex 6

⊿ Annex 17

SAFETY Mngr

7 AP&FSP*

SECURITY Mngr

- ⊿ Annex 17
- 7 Doc 8973
- → OPS**-Subpart S
- Annex 6 Chpt. 13

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EXAMPLE: Allocation of Specific responsibilities from Annex 6 - Ch 13*

PHs Flight Ops, Maint., GND Ops

- All requirements, as applicable
- 7 Training of own personnel
- Implementation of security measures
- Design of measures in cooperation with Sec Manager

PH- Crew Training

- Organisation of security Training with AA-Certified AVSEC Instructors
- 7 Logistic
- 7 Training documentation management

SECURITY**

- Security Program/Manual+ Validation from AA
- Security TrainingProgram + Approval from AA
- Design Security Check-Lists/Measures & Procedures together with relevant PHs



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Activities on Company Service Providers/Suppliers

- □ Performed by : Quality Mngr / PHs □
- ▼ Type of control: Provider/Supplier management of security documentation and security training ("<u>Administrative</u> <u>Control</u>"), such as checking if the provider has:
 - a Security Program (which shall include Security Organization, Security Measures, Training Programs, Internal ASQCP) Validated by the AA;
 - Certifications/qualifications for its Staff as required by norms or regulations;
 - □ Evidences of performed training.

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Company - ASQCP

SECURITY Manager* Specific responsibilities:

- Accountable to the A.A. for the correct implementation of security measures and thus responsible to manage the Company ASQCP (which is part of the Security Manual)
- 7 To conduct Audits, Inspections, Investigations & Tests on Company Service Providers/Suppliers and over all areas of the Company to verify the correct implementation of security measures ("<u>Technical Control</u>")
- 7 "VISITs" (if and/or how Authorized by the AA/Airport Authority) to verify the correct implementation of security measures at the airport.



How & When

Carried out as specified in the Company-ASQCP with related CHECK-LISTS, when..

- 7 Foreseen by the Yearly Plan,
- 7 Opening a New Destinations,
- Reports show significant NON-Conformities
- 71

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Summary

- 1. Audits
- 2. Inspections
- 3. Tests

Carried out by the A.A. and/or, **internally**, by the Company (also including Providers/Suppliers)

- 4. Surveys
- 5. Exercises
- 6. Investigations

Carried out by the A.A. and/or, internally, by the Company (also including, providers/suppliers) if/when required

7. «Visits»* Carried out by the Company at the Airport to "observe" Screening, Access Control Activities, Apt surveillance, etc.*

- 8. Observations
- 9. Interviews
- 10. Documentation Review

Quality Control "TOOLS"



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Evaluation*

Classification of Compliance	Security	Inspection-	∉Test⊹
	audit .		(1)
1 - Fully compliant	V		Ý
2 - Compliant, but improvement desirable	Ÿ		Ž
3 - Not compliant (minor deficiencies only)	Ÿ		Y
4 - Not compliant - Serious deficiencies	Ÿ	V	Ž
N/A · Not applicable	V.	2 (°)	
N/C - Not confirmed	Ž		V

(1) TESTs can only be performed by the A.A. The Company may perform Tests only INTERNALLY; if carried out on Providers/Suppliers, it must be formally provided for by agreement/contract.

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Summary of QC responsibilities

1.	Security Manager (also qualified as Security Auditor*)
	"Technical Control" of Security Measures on

→ Company Departments, Company Procedures, Company Providers/Suppliers, Airports

2. Quality Manager*

"Administrative Control/ Document Management" on...

¬Security Manager

APHS Position Holdey

→ Providers/Suppliers



Follow-up of <u>Security Non-Conformities</u> raised by the Security Manager

- Internal Management of FINDINGS (to be applied also to Providers/Suppliers through related PHs) > Corrective

 ACTIONS: are obligations since the Security Manager is accountable to the AA for the correct implementation of security measures within the company.
- With Airport Administrator/Airport Authority > Highlight the NEGATIVE impact on company operations of possible security incidents/accidents as a result (probably) of security measures not in place or not in compliance with requirements.
- NON-Conformities raised up by the Quality Manager shall be jointly managed by all relevant PHs and the Security Manager.

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Module summary exercise

- Understand what is Quality Assurance
- Understand goals of Quality Assurance
- Quality Management System as a mean of Quality Assurance
- Sharing of responsibilities within an Operator as far as QC is concerned



Questions?

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Security Management Systems

Module 10 IATA Operational Safety Audit (IOSA)

IATA Training & Development Institute KNOWLEGGE · EXPERIENCE · NETWORKING · SKILLS · RESULTS



Module objectives

At the end of this module you will be able to understand & describe:

7 IOSA

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- 7 The objectives of the IOSA Programme
- → The root of IOSA Security Provisions
- 7 The IOSA audit process
- → The importance of IOSA for SeMS.



Topics covered

- **7** Overview of IOSA
- **7 IOSA Reference Manuals**
- 对 IOSA audit process
- 7 IOSA as a Security audit
- 7 The Role of IOSA in SeMS

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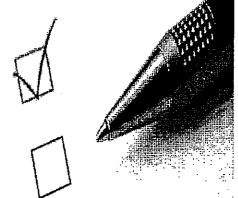
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Session Outline

- 7 Overview of IOSA
- 7 IOSA Reference Manuals
- 对 IOSA audit process
- IOSA as a Security audit
- 7 The Role of IOSA in SeMS







- OSA aims to provide a standardized audit program of the operational management and control systems of an airline that is based on internationally-recognized standards and supported by a rigorous quality assurance process
 - Recognized by:
 - 7 ICAO
 - **7 US FAA**
 - → Junta de Areonáutica Civil (Chile)
 - Mexican DGAC
 - 7 CAAC (China)
 - Many others
 - 7 Can be used by Airports and Civil Aviation

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Overview of IOSA

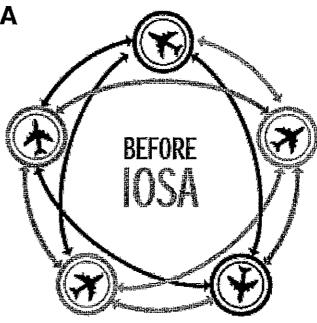
- Implementation and international acceptance of IOSA Airlines and Regulators achievements:
 - Establishment of the first internationally recognized operational audit standards
 - Reduction of costs and audit resource requirements for airlines and regulators
 - □ Quality audit program under the continuing assistance of IATA
 - → Structured audit methodology, including standardized checklists

 → Company of the checklists

 →
 - ➢ Elimination of audit redundancy through mutual acceptance of audit reports.



尽 OLD Audit Mode



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Overview of IOSA

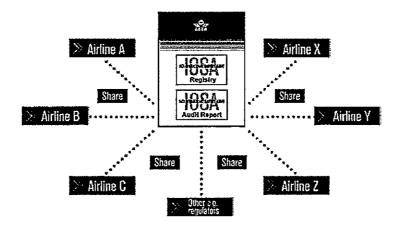
7 NEW Audit Model

One Audit per Airline (24-month Interval): renewal process usually activated 4 months before expiry.

Cariffication	>> Airline A	> Airline X	
➢ Airline B	IOSA Audit	10SA Audit Airlin	e Y
	≫ Airline C	>> Airline Z	



- NEW Audit Sharing Model
- 7 If airline agrees, audit can be released to other airlines.



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Overview of IOSA

IATA behaves as a Quality Association

- Any airline wanting to join IATA must pass an IOSA audit first (cost: ~ US \$ 40,000)
- All existing Members had to:
 - 7 Commit to an IOSA audit by end 2006

 - Close all Corrective Actions (generated by "findings") and be Registered by end 2008
 - Maintain IOSA Registration by being successfully audited biennially thereafter.



IOSA Progress

- ¬ 100% of IATA Members have done an IOSA audit

 ¬ Almost 30% of all audits are on non-IATA members
- 7 Over 700 audits conducted

- ¬ IATA is making a difference to Safety & Security

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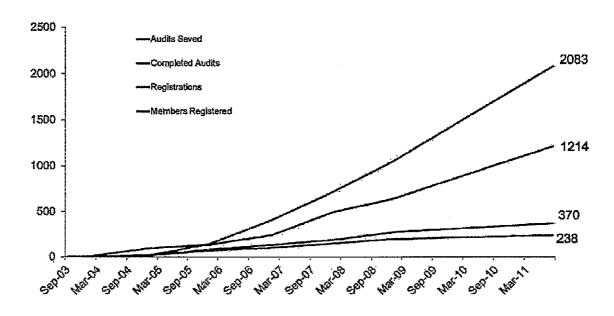
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Programme Status September 2011





IOSA Reference Manuals

- 7 IOSA Program Manual (IPM) 5th Edition
- 7 IOSA Standard Manual (ISM) 5th Edition
- 7 IOSA Reference Manual for Audit Programs (IRM) 2nd Edition
- 7 IOSA Standard Manual 5th Edition Check Lists
- ISAGO* Standard Manual 2nd Edition
- 7 ISAGO* Q5 Auditee Manual 2nd Edition
- Electronic document, available free for download (http://www.iata.org/ps/certification/iosa/index.htm)

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IOSA Standards Manual 4th Edition

- More focus on SMS: 6 new provisions on SMS bringing the total to 68
- 7 Released July 2011 Effective 1 December 2011
- 7 9 new standards
- 7 3 new recommended practices



IOSA Standards Manual – 5th Edition Effective April 2012 with following changes: 7 Rewording of text in some provision. 7 New provision incorporating the IOSA Standards Special Review process with the IOSA Change Management process. 7 New provision associating the Correlation of specifications with data from industry accidents and incidents with the IOSA Change Management process. □ Incorporation of the IPM Ed. 4 Temporary Revision 1 provision. 7 New flow Chart: "IOSA Standards Accident-Incident Correlation Process Flow" Copyright @ 2013 IATA 15 Security Management Systems - SeMS

IOSA Audit Process

Process to become an IOSA registered airline

- IOSA standards Integration
 - Download IOSA Standards Manual and Checklist and review compliance
- Audit Organization (AO)*
 Integration
 - Contact an AO to schedule an Audit (~ 8 AOs certified by IATA)
- Contract Signing
 - Get a contract signed (Operator, IOSA, AO)

- 7 IOSA Audit Hosting
 - → Conduct audit (approx. 25 on site man-days)
- Corrective Action Phase
 - 12 Months to close all findings, then AO recommends for registration
- IOSA Registration (www.iata.org/registry)
 - カ Valid for 2 years

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IOSA Audit Process

- STANDARDS always contain the word "shall" (e.g. The Operator shall ensure..) in order to denote an IOSA requirement.
 - ¬ The Operator must ("Shall") conform with all these standards to attain IOSA registration
- RECOMMENDED PRACTICES always contain the word "should" (e.g. The Operator should have...) and are considered under IOSA as operationally desirable or highly recommended.
 - ☐ Conformity is optional ("Should") by the Operator.

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IOSA Audit Process

- To determine conformity with any standard or recommended practice, the IOSA Auditor will assess the degree to which specifications are documented and implemented by the operator
 - 7 Documented
 - → Implemented



IOSA Audit Process Audit Scope Section 5: Cabin Section 1: Organization & Management System Operations Section 2: Flight Operations Section 6: Ground Handling □ Section 3: Operational Section 7: Cargo Control/Flight Dispatch Operations 5 4 1 Section 8: Operational Section 4: Engineering & Maintenance Security 1/5till, separated. Copyright @ 2013 IATA Security Management Systems - SeMS

IOSA as a Security Audit

- 7 IATA does not have a dedicated "Security Audit programme".
- IOSA (differently from other international audits, such as: USAP, ECAC, TSA) audits all aspects of operations.
- IOSA is the only global Airline audit that covers Security, since Security is a major part of airline operations.
- IOSA follows the SeMS approach to Security:
- Compliance with IOSA standards provides another boost to aviation security
 - All airlines − IATA member or not − can benefit by being audited under IOSA

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The Role of IOSA in SeMS

- 7 To further enhance operational security, SeMS principles are incorporated in IOSA:
- IOSA provides Core Elements of SeMS regulatory requirements
 - 7 When not provided by State of Registration
- □ SeMS audited within IOSA Standard Manual (5th Edition)
 - 尽 SeMS becoming an entry requirement for IATA Membership
- Objections by Airline to AO findings allowed
- 7 Non-resolution handled by IATA.

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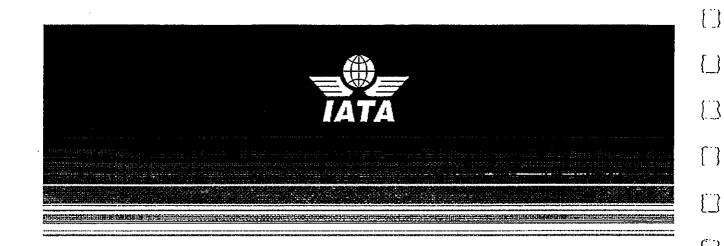
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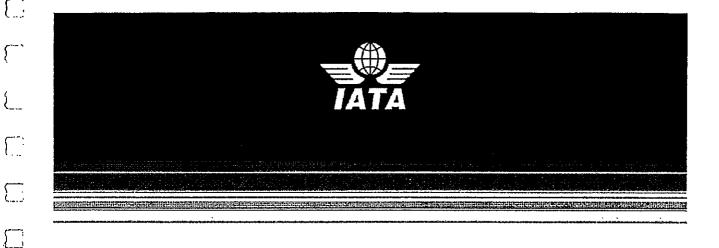
Module summary exercise

- Have a better understanding of what IOSA is
- Understand the objectives of the IOSA Programme
- 7 Know the root of IOSA Security Provisions
- 7 Understand the IOSA audit process
- Understand the importance of IOSA for SeMS



Questions?

IATA Training & Development Institute knowledge - experience - networking - skills - results



Security Management Systems

Module 11 Contingency Planning

IATA Training & Development Institute - KNOWLEDGE - EXPERIENCE - NETWORKING - SKILLS - RESULTS



Module objectives

At the end of this module you will be able understand & describe:

- why Crisis Management is needed
- the goals of Crisis Management
- the different steps of a crisis management plan
- the different components involved in Crisis Management and how to design them
- the importance of investigating and reporting all security incidents



Topics covered

- □ Elements of Contingency Planning
- 7 Crisis Management
- → Crisis Control Area
- 7 Crisis Management Team (CMT)
- 7 Incident Investigation and Reporting

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What is a Crisis*?



ISO**



Characteristics or Common Elements in Crises

- 7 Confusion
- Rapid escalation of events
- Communication problems
- Resources isolated or inaccessible
- Routine decision-making fractured
- Media attention focused
- □ Demand for information
 □

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What is Crisis Management?

The process by which the Organisation manages

a wider impact and enables it to commence

Recovery: \(\)



Strategies of Contingency Planning

- ☐ Identify threat/risk assessments
- → Prevent strategic risk management
- Respond initiate plans, teams, facilities
- ¬ Recover business continuity & resumption

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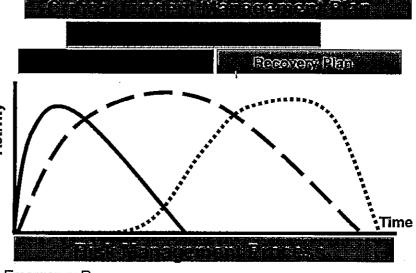
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Crisis Management Phases



Emergency Response — — — — — — Recovery Response — — — —



Crisis Management

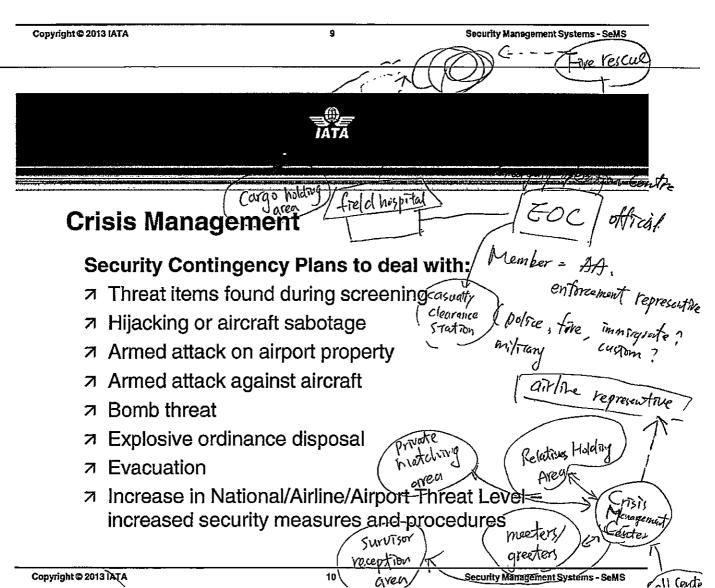
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Objective

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- 7 Bring about successful termination of crisis with minimum disruption and return to normal operations as soon as possible
- 7 How create...
 - ¬ Crisis Management Plan
 - 7 Crisis Management Facilities
 - 7 Crisis Management Team

well-trained good leadership nice attitude To minimize the extent and duration of the Consequence (impact) of an event!





Crisis Management

Need to ensure:

- Orderly and efficient transition to emergency operations
- Clear command person and chain of command
- Delegation of airport emergency authority;
- Assignment of emergency responsibilities;
- Proper authorization for actions;
- 7 Co-ordination of efforts to cope with incident;
- Safe continuation of aircraft operations or return to operations as soon as possible;
- Provision of additional security personnel and other staff resources.

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Lessons learned

- Ignoring the Problem: it won't go away
- 7 Lives may be lost
- Reputations & confidence destroyed
- 7 Company under strict scrutiny from Authorities
- Manage Media carefully and keep them properly informed
- 7 Crisis Management: conduct regular exercises and Follow-Up

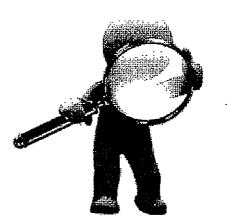
When the time comes to use the plan, the time to plan is over!

Failing to plan is planning to fail!



Enabling Crisis Management

- A. Know Your Oganisation & Formulate Internal Policy
- **B. Pre-Planning**
- C. Implementation and Operation
- D. Monitoring and Corrective Action
- E. Management Review



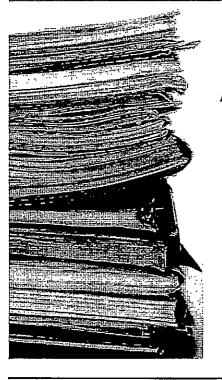
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Enabling Crisis Management

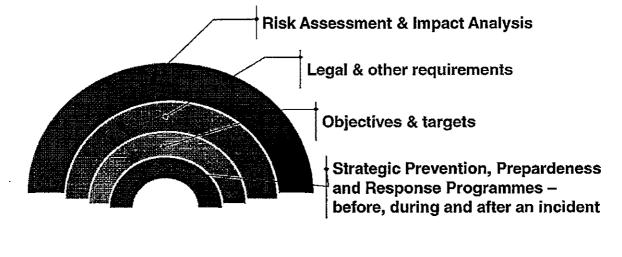
- A. Know Your Oganisation & Formulate Internal Policy
 - - aprotection of critical assests

 - 7 Ensure allocation of resources



Enabling Crisis Management

B. Pre-Planning



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Enabling Crisis Management

C. Implementation & Operation



- Structure and responsibility
- Training, awareness, competence
- 7 Communication

- → Documentation
- → Operational control
- Incident Prevention,Prepardeness andResponse



Enabling Crisis Management

D. Monitoring and Corrective Action

- Monitoring and measuring system performance (also through internal audits)
- □ Identifying non-conformity/evaluating compliance
- Maintaining records



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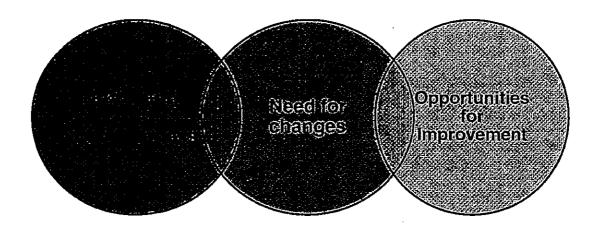
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Enabling Crisis Management

E. Management Review





Principles

Major Objective

Protection of life

(Humanitarian aspects are n° 1 priority)

Legal obligations

Preserving Company assets/image

Besumption of normal operations (BCP*)

Secondary Objective

Investigation to
establish if the crisis
was an accident or a
crime (normally
carried out already by
investigating
authorities**).

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Crisis Management Process

- Response to Crisis must be handled by special team: the Crisis Management Team (CMT).
- OMT adopts/adapts existing management structure,
- Existing communications and
- Involves all necessary agencies



Security Management System

Module 12 Designing a SeMS

IATA Training & Development Institute

KNOWLEDGE - EXPERIENCE - NETWORKING - SKILLS - RESULTS



Module objectives

At the end of this module you will be able to understand & describe:

- 7 the relationship between regulatory requirements and SeMS elements
- why you need core elements as a foundation to SeMS

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- Why Design SeMS?
- 7 Core Elements
- **7 IOSA Core Elements**
 - Management and Control
 - 7 Training and Qualification

 - → Security Threat and Contingency Management

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Why Design SeMS?

- 7 Change in organizational security management philosophy
- Improve operational security effectiveness and efficiency
 bringing together all core elements
- Ensuring compliance with Contracting State regulatory regime
 - □ ICAO recognizes SeMS, but not yet part of Annex 17
- Ensuring "best practice" in aviation security management



Core Elements

- Organization wide Security Management System
- Regulatory compliance
 - 7 Most important core element & primary driver ICAO Annex 17
 - □ Contracting State Aviation Security Programs
- IATA Security Manual
- **7 IOSA Core Elements**
 - Documented & Implemented
 - → Audit compliance

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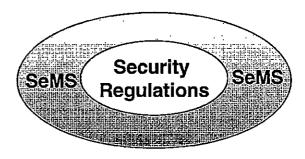
Security Management Systems - SeMS



Core Elements

- 7 "SeMS elements" are:
 - Quality Management segment in place (= QMS becomes complimentary system*)

 - Support baseline security regulatory compliance
 - Essential to have security "best practices"





Core Elements*

- Regulatory requirements and SeMS elements shall be fully integrated
- Even if the Regulator has no SeMS requirement, there is still a need to have a regulatory framework;
- IOSA can provide that framework;
- 7 IOSA mirrors or exceeds ICAO.



IOSA Standards Manual

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IOSA - SeMS Core Elements

- 7 IOSA Standard Manual Core elements in the Sections 8 Security Management:
 - 1. Management and Control
 - 2. Training and Qualification
 - 3. Security Operations
 - 4. Security Threat and Contingency Management



108A Standards Manual

5. Luban

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1. Management and Control

Management Systems

⊅SeMS*

Head of Security that reports to Senior Management

Security Program**

7lt contains security provisions that shall always meet:

- 7 Requirement of State of Registration
- □ Requirements of Security policy of the organization

**The Security Programme could be included in the more detailed and full comprehensive Security Manual

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1. Management and Control

□ Authority & Responsibility

- Definition of responsibilities for all management positions
- 7 Delegation of Tasks/Power
- ¬ Reporting structure
- 7 Liaison with external stakeholders

⊘ Communication

7 Process to exchange security information

TATA	
1. Management and Control	
7 Provision of Resources	ا)
→ Work environment conducive to efficient security	1
operations >> Staff recruitment process to ensure competency	[]
7 Documentation	
Management and control system for Security Programme and security manual elements	
System to ensure service providers have access to security documentation	
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TATA	(<u>/</u>
1. Management and Control	
Security Manual ■	

- → Documented and up to date

 → Documen
- ¬ Can be in separate parts (for the "Need to know" principle)
- Contains SeMS descriptions and all elements/security provisions (such as: Organization, Security Measures, Security Training Programs, Security Quality Control, Local Procedures, Contingency Plans, etc.) that must be implemented by the company.

- Method to record operational security and management data



1. Management and Control

- Internal Security Quality Control
 - 7 Procedures for systems audit
 - □ Procedures for Quality Control Mechanism
- Outsourcing and Product Control
 - 7 Monitoring contract agreement and performance
 - Auditing process for contractors
 - When not under organization's control, ensure measure are be applied
 - □ Equipment* should meet required technical specifications

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2. Training and Qualification*

Training Programme

- ¬ Initial and recurrent training for frontline personnel
- → Security awareness training programme
- Oversight of contractor training programmes
- □ Certification of screeners**
- Review and update of training programme content

^{*} Normally includes also Recruitment



3.	Security Operations							
7	Access Control							
	□ Security Restricted Area Permit system							
	→ Prevention of introduction of dangerous items on aircraft							
71	Aircraft Security							
	Aircraft Security Checks & Searches Bomb search procedures (and Check-List)⁻							
		Prevent unauthorized cockpit access - Reinforced cockpit door						
	→ Unruly/Disruptive Passengers → Line (1997) → Line (1997)							
yright	© 2013 IATA 15 Security Management Systems - SeMS							



3. Security Operations

- → Procedures for In-flight Security Officers (IFSO)
- □ Procedures for law enforcement carrying weapons
- → Procedures for carriage of weapons as baggage

Passengers, Supernumeraries & Cargo Attendants, and Cabin Baggage

- → Screening measures and security controls
- Screening of all supernumeraries and cargo attendant
- ⊼ Right to deny boarding

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3. Security Operations

Measures (pre-flight & in-flight) for passengers subject to judicial or administrative procedures.

- □ 100% Hold Baggage Screening*
- 7 Hold Baggage System levels at the Airport
- 7 Passenger-Hold Baggage Reconciliation & measures
- ∇ Screening of courier consignments

 ∇ Screening of courier consistency consignments

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- * Provisions applicable to international flights

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3. Security Operations

7 Cargo, Mail and Supplies

Section 7 of IOSA Manual covers cargo operations

- 7 Protection of cargo from unauthorized interference
- Cargo not accepted from regulated agents subjected to security controls
- Acceptance procedures
- Protection from unauthorized access of all catering and stores after security control



4. Security Threat and Contingency Management						
□ Threat Assessment & Risk Management						
→ Assess risk factors of threats						
→ Develop countermeasures for new threats						
→ Develop countermeasures for multiple threat levels						
7 Have a means of evaluating performance and effectiveness of countermeasures (RP)						
尽 Contingency Planning						

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7 Have well-rehearsed contingency plans in place to

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4. Security Threat and Contingency Management

尽 Investigation and Notification

respond to incidents

¬ Acts of unlawful interference

→ Failure of implementation of security controls

7 Process to notify the civil aviation security authority



Module summary exercise

- 7 Know why you need SeMS
- Understand the relationship between regulatory requirements and SeMS elements
- 7 Know why you need core elements as a foundation to SeMS
- 7 Know what the IOSA Security core elements are

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Questions?

IATA Training & Development Institute KNOWLEDGE - EXPERIENCE - NETWORKING - SKILLS - RESULTS

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Security Management Systems

Module 13 Project Management

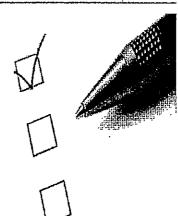
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KNOWLEBGE - EXPERIENCE - NETWORKING - SKILLS - RESULTS



Module objectives

At the end of this module you will be able to understand and describe:

- the basic components of Project Management
- 7 how to draft a SeMS project proposal
- the importance of developing a project management plan when implementing SeMS.





Topics covered

- Defining Project Management
- Project Identification
- Project Initiation
- Project Planning
- Project Execution and Control
- Project Closing

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Defining Project Management

- Application of knowledge, skills, tools, and techniques to project activities in order to meet or exceed stakeholder and expectations from a project
- It is not just scheduling!
 - A lot has to be done before and after your schedule or timeline has been drafted
 - □ Gantt charts driving on-time and on-budget can distract from the important element of people.



Defining Project Management

- A project is different from operations, since it is:
 - → One-time only
 - 7 With a defined starting and end point
 - 7 With a defined budget, objectives and scope
 - → Unique!

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Defining Project Management

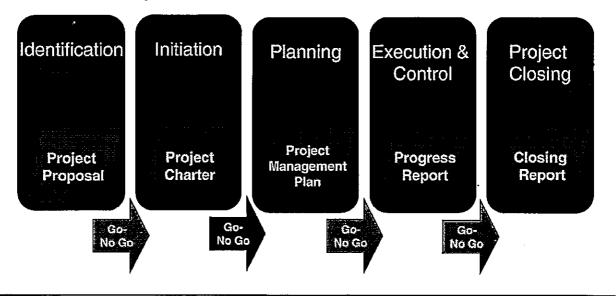
Project Manager responsibilities:

- Meets project objectives within constraints
- Integrates everything and everybody
- Makes decision
- Resolves conflict
- Communication hub
- 7 Prime negotiator with stakeholders



Defining Project Management

Project life cycle phases



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Project Identification

- → Conceptual Phase
- - ¬ Improved productivity
- Project scope is broadly defined
- Deliverable: Project Proposal



Project Identification

- → Project Proposal content:
 - 7 Project ID
 - ¬ Broad descriptions of project scope
 - 7 Main actors
 - → Broad estimates for time, costs, resources
 - ¬ Project justification

 - 7 Assumptions, dependencies & constraints considered

 - 7 Submitted to senior management

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Project Identification

Project Proposal Purpose

7Raise awareness of project viability

7 Provide rationale for project



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Project Team Clarify the mandate of the endorsed project Select implementation strategy Perform stakeholder analysis Perform impact assessment Perform risk analysis List project deliverables Budget estimates Get authority to go ahead Deliverable: Project Charter Report

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Project Initiation

Project Charter Report content:

- 7 Context
- Project Description
- 7 Project goals
- Project objectives
- Justification
- Implementation Strategy
- Risks and roadblocks (internal, external)
- Recommendations
- 7 Approval from CEO/B. of D./AM



Project Initiation

Stakeholder Management

- - 7 Organizations or individuals
 - 7 Participants in the project

 - Anyone having an impact on the project
- 7 Prioritize
- Understand motivating factors
 - 7 Use as base for communication plan
 - Use as base for risk identification

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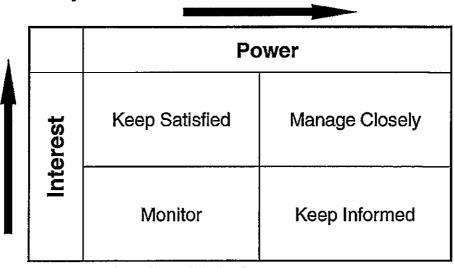
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Project Initiation

Stakeholder Analysis



* Do it early and do it often



Project Initiation

Project Risk Analysis

- 7 Create a realistic project baseline
- - 7 Project owner is responsible for risk management decisions
 - Person performing the task is best placed to identify the risk
 - 7 Risk identification is a team effort
- Build contingency plans by:
 - Identifying alternative options

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Project Planning

Process

- Work Breakdown Structure (WBS) is created
- Roles and responsibilities are assigned
- Feasibility studies are determined
- Schedules is created and optimized
- Project baseline is created
 - Deliverable: Project Management Plan, Formal and approved document that defines how the project is executed.



Project Planning

Project Management Plan content:

- 7 Baselines
 - ¬ Scope, schedule, budget, quality
- Management processes
- 7 Tools techniques and procedures
- 7 Change management and control
- → Configuration
- Risk register
- A Key management reviews

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Project Planning

Work Breakdown Structure (WBS)

- → Deliverable-oriented hierarchical decomposition of the work to be done.

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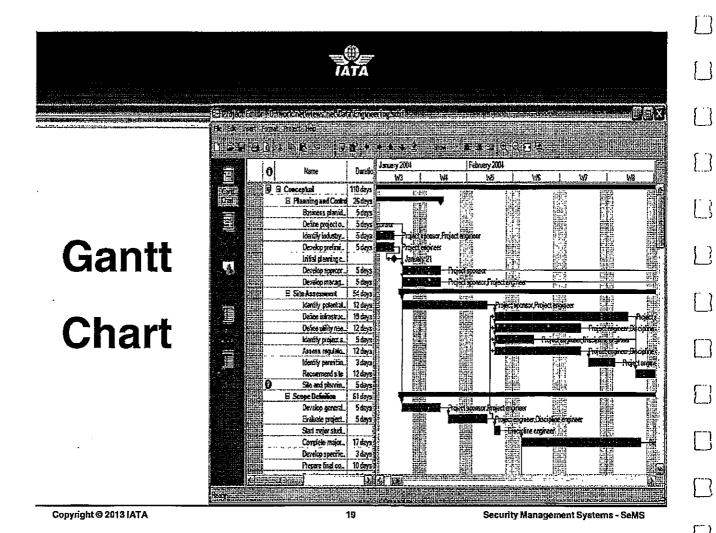
 → Deliverable-oriented hierarchical decomposition of the work to be done.

 → Deliverable-oriented hierarchical decomposition of the work to be done.

 → Deliverable-oriented hierarchical decomposition of the work to be done.

 → Deliverable-o
- Organizes and defines total scope of the project
- - Activity duration estimation

 - Responsibility assignment
 - Performance tracking
 - Communication





Project Execution

During the course of the project:

- □ Conduct regular meeting with core team
- Assess Progress
 Assess Progress
 Transport
 Assess Progress
 Transport
 Transp
- 7 Identify potential delays
 - → Develop Mitigation plan
 - 7 Divert or assign additional resources
 - 7 Evaluate impact on other dependent tasks
- □ Create an environment where everyone feels comfortable giving an accurate assessment



Security Management Systems Session 15

Change Management

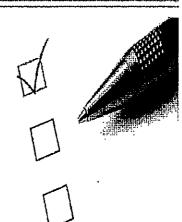
IATA Training & Development Institute KNOWLEDGE · EXPERIENCE · NETWORKING · SKILLS · RESULTS



Module objectives

At the end of this module you will be able to understand and describe:

- why there is a need to consider change management when implementing SeMS
- 7 how to apply Prosci's ADKAR Model
- the skills a change agent requires to be successful
- 7 the different change management strategies





Topics covered

- ∇ Why Change Management
 ✓ Why Change Management
 ✓ Property Change
 ✓ Property
- → Change Management Skills
- → Change Management Strategies

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Why Change Management?

- 7 Oppose change is a natural tendency:
 - ন Anthropologically and psychologically based
- 7 Convince your staff that changing set processes

 - Facilitates individual daily duties in the long term
 - 7 Will be problem solving not problem causing
- Get buy-in from everyone to ensure success of your project

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Why Change Management?

- Being organized contributes in gaining support
 - 7 Project Management Plan
- 7- Proactive management of change produces:
 - Increased credibility (with everybody)
 - Better informed decisions and judgments, and more effective activity
 - □ Savings in time and money
 - 7 Better resource allocation and measurable results
- Application when developing the SeMS

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Why Change Management?

Gleicher's Formula* : change is possible if...

 $D \times V \times F > R$

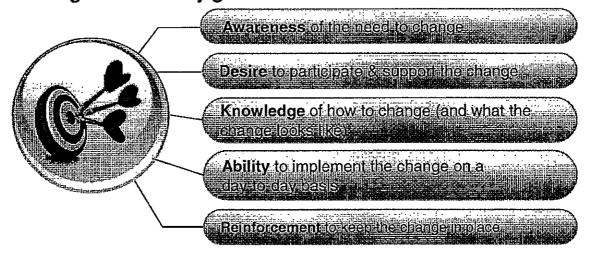
Where:

- Dissatisfaction with how things are now
- Vision of what is possible
- First, concrete steps that taken towards the vision
- Resistance



Change Management Process

Prosci's ADKAR® Model (1998) Management's 5 key goals:



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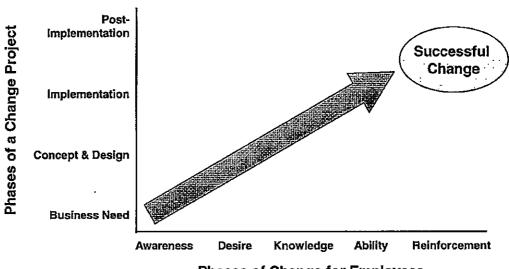
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Change Management Process

Prosci's ADKAR® Model (1998)

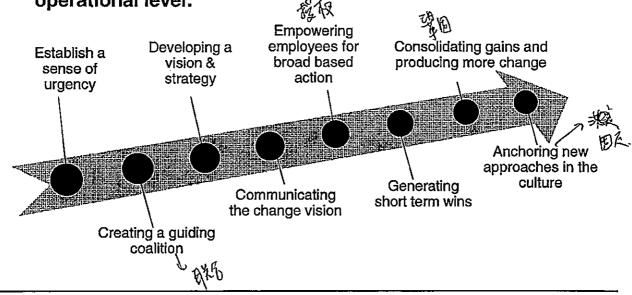


Phases of Change for Employees



Change Management Process

Kotter's 8 stage process linking strategy to execution at operational level:



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Change Management Process

loan work

Person's role in the organization will define what questions they will ask*:

Systems and Operations:

How?

How to operate.

Performance units:

What?

what is the result

Pelmejemis

How?

How to measure the result

People with no direct role in day-today operations (i.e. Senior Mgmt):

Why?

Different Tob



Change Management Skills

Skills required for change agents

Political skills

Be diplomatic, Learn to avoid organizational politics

Analytical skills

Good understanding of current and new systems is needed to sell the need for change (is the key/most important skill of the Project Manager)

Business skills

Understand the business aspects (increased profitability, public perception, etc.)

Communication/ relationship skills

People will be the greatest resistance and biggest support for change to occur

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Change Management Strategy

- a Empirical-Rational 契熱を建立
 - 7 People are rational and will follow their self-interest once it is revealed to them.
- カ Normative-Re-educative ラ がと
 - People are social beings and will adhere to cultural norms and values.
- Change is based on redefining and reinterpreting existing norms and values, and developing commitments to new ones



Change Management Strategy

- **尽 Power-Coercive**
 - 7 People are basically compliant and will generally do what they are told or can be made to do.

36年36年

- Thange is based on the exercise of authority and the imposition of sanctions punishmax —
- フ Environmental-Adaptive 弱遠視技程
 - People oppose loss and disruption but they adapt readily to new circumstances.
 - Change is based on building a new organization and gradually transferring people from the old one to the new one.

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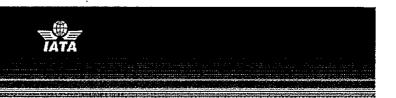




Change Management Strategy

- Factors in Selecting a "Change" Strategy:

 - → Target Population
 - 7 The Stakes 創 資産
 - 7 The Time Frame
 - 7 Expertise Specifit knowledge



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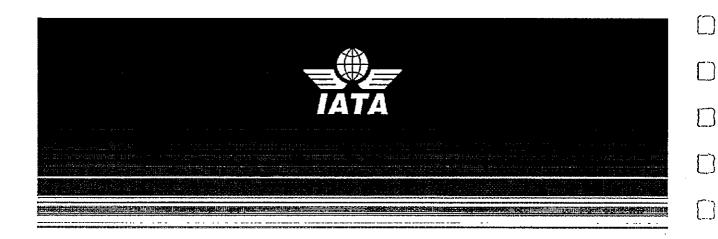
Module summary exercise

- Understand why there is a need to consider change management when implementing SeMS
- Junderstand how to apply Prosci's ADKAR Model
- Know the skills a change agent requires to be successful
- Know the different change management strategies.

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Questions?

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Security Management Systems

Module 16 Performance-Based Regulations

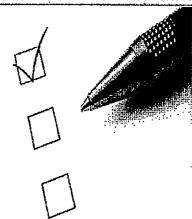
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Module objectives

At the end of this module you will be able to understand and describe:

- 7 the difference between prescriptive and performance-based regulations
- 7 the advantages of performance-based regulations
- ★ The potential challenges of implementing performance regulations





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7 Prescriptive or Perform (exercise)?	nance-Based	
7 Performance-Based Re	egulations	
7 Prescriptive Regulation	าร	
Topics covered		

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Prescriptive Regulations The functions divertism, low or stule Features	
Features ↑ ↑ ↑ ↑ ↑ ↑ ↑ ↑ ↑ ↑ ↑ ↑ ↑ ↑ ↑ ↑ ↑ ↑ ↑	
Regulator told stakeholders how to ensure security	
⊅Becomes difficult when	
Multitude of security layers interacting together	
→ Multiple threats exist	ر)
7 Threat varies from location to location	
One size fits all measure is becoming harder to implement	

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Prescriptive Regulations

Features

- Regulators must invest more time and energy to implement appropriate regulations
- Regulations are always trying to prevent the last incidents (little causal analysis)
- Stakeholders are forced to focus on meeting the last requirements
 - Time-consuming and costly
 - 7 Difficult to exceed baseline measures
- Generally very little consultation takes place
 - → Too many stakeholders

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Performance-Based Regulations

Also known as "Risk-based" regulations

- ¬Legislates what is required rather than how
- ¬Developed in consultation with stakeholders
- ¬Considers the potential impact on operations
- ¬Focus on policies & procedures to ensure on-going delivery

 ¬Multiple risk and threat level
- ¬Role of Regulator oversight with effective sampling rather than on-going & detailed inspection
- ¬Promotion & maintenance of responsibilities

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Performance-Based Regulations	.	
Advantages of performance-based approach		
Provides stakeholders the ability to implement the best security measures based on		
→ Operational environment		
Specific risk and threat realities e.g. airport zones with different threat levels – tailor the security response		
¬Promotes communication and co-operation	{	
¬Reduces the burden on the Regulator*	ſ	
Copyright © 2013 IATA 7 Security Management Systems - SeMS	_ _	
	_	
/ATA		
Performance-Based Regulations	. ,-	

Advantages of performance-based approach

- - Stakeholders are able to try to prevent the present threat while meeting the regulatory objective
- 7 Facilitates mutual acceptance of security measures (outcomes)
 - A better option than harmonization − less effort
- 7 Rather than developing new "reactive" technical rules on a particular issue, performance levels can be specified.



Performance-Based Regulations

Challenges

Can stakeholders self-implement security measures?

7 Regulators needs a thorough oversight program

Especially for higher risk situation, how do you ensure the right threat is addressed with effectiveness?

- Constant communication between stakeholders and regulator
- 7 Intelligence sharing
- 7 More hands-on approach may be required

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Example:Transport Canada 100% HBS Regulation Model

Compliant with International Standards

Annex 17 Standards and Recommended Practices on Hold Baggage Screening

Performance Based

- 7 The regulator Transport Canada (TC) sets the Objectives and Standards
- 7 The screening authority (Canadian Air Transport Security Authority identified how best to meet the objectives and standards
- Multiple approved HBS configurations to accommodate airports' characteristics



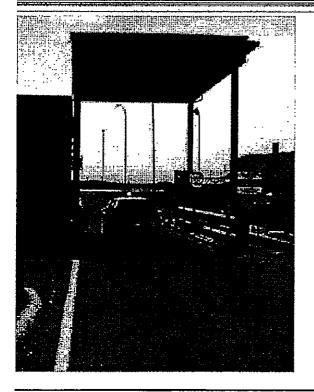
\bigcap Transport Canada 100% HBS Regulation Model Stakeholder Input 73 Stakeholder meetings 7 Continuous dialogue with all stakeholders 7Amendments made on basis of stakeholder input 7 To reduce negative impact on airport and air carrier operations → To improve screening effectiveness and efficiency Security Management Systems - SeMS Copyright @ 2013 IATA



Example: Transport Canada 100% HBS Regulation Model

- 7 Complement to regulations
- Used as a Quality Assurance tool
- 7 Used to ensure best practices are implemented
- 7 Provides operational flexibility to regulate entity
- SeMS is a requirement for all Canadian registered Air Carriers under Bill C-7 Public Safety Act 2002 - Aviation Security





Prescriptive or Performance-Based?

Access to airside shall be restricted in order to deter unauthorised persons and vehicles from entering these areas.

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Prescriptive or Performance-Based?

If unable to monitor catering from preparation to delivery, conduct searches on a minimum of 50% of the trays in each catering cart.



Prescriptive or Performance-Based?

Each Contracting State shall establish measures to ensure that originating hold baggage is screened prior to being loaded onto an aircraft engaged in commercial air transport operations departing from a security restricted area.

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Prescriptive or Performance-Based?

All passenger-carrying aeroplanes of a maximum certificated take-off mass in excess of 45 500 kg or with a passenger seating capacity greater than 60 shall be equipped with an approved flight crew compartment door that is designed to resist penetration by small arms fire and grenade shrapnel, and to resist forcible intrusions by unauthorized persons. This door shall be capable of being locked and unlocked from either pilot's station.



Prescriptive or Performance-Based?

The Operator shall ensure procedures are in place that prevent disembarking passengers from leaving items on board an aircraft during a transit stop at an airport, that is deemed by the Operator or the appropriate authority to be under an increased security threat.

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Module summary exercise

- Understand the difference between prescriptive and performance-based regulations
- Understand the advantages of performance-based regulations
- Understand the potential challenges of implementing performance regulations within an Operator.



Questions?

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KNOWLEDGE - EXPERIENCE - NETWORKING - SKILLS - RESULTS

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