

EBT Development Process

ICAO Doc 9868 PANS-TRG

Evidence Based
Training

Instructor
Qualification

Evaluator
Qualification



ICAO Manual – EBT

Comprehensive

Includes Example
Programs

Link to available
data

KSA Elements

- Situation awareness
- Communication
- Manual aircraft control
- Workload management
- Flight management, guidance and automation
- Knowledge
- Application of procedures and knowledge
- Problem solving & decision making
- Leadership & teamwork

Knowledge - What do we really need?



All Phase Threats - Examples

Compliance Failure

Mishandled Aircraft

Mishandled auto flight system

Mismanaged aircraft state

Unique aircraft characteristics

Unstable Approach

Loss of Control – Recognition

Procedural knowledge

Pilot Monitoring/Not Flying

Design focus

Intervention strategies through role-play

Performance Criteria

- Anticipate potential for windshear
- Predictive windshear warning during take-off
- Avoid known windshear
- Windshear encounter during take-off
- Recognise windshear encounter
- Windshear encounter after rotation
- Take appropriate action
- Predictive windshear after rotation
- Apply appropriate procedure
- Assure aircraft control
- Maintain or restore a safe flightpath
- Assess consequential issues
- Manage outcomes

COM	SAW	LTW	WLM	PSD	KNO	APK	FMA	MAC
			X		X			
X			X	X	X		X	
					X		X	
			X	X	X			

KSA Element Criticality

Event Example – Windshear Take-Off Phase

Risk of doing nothing

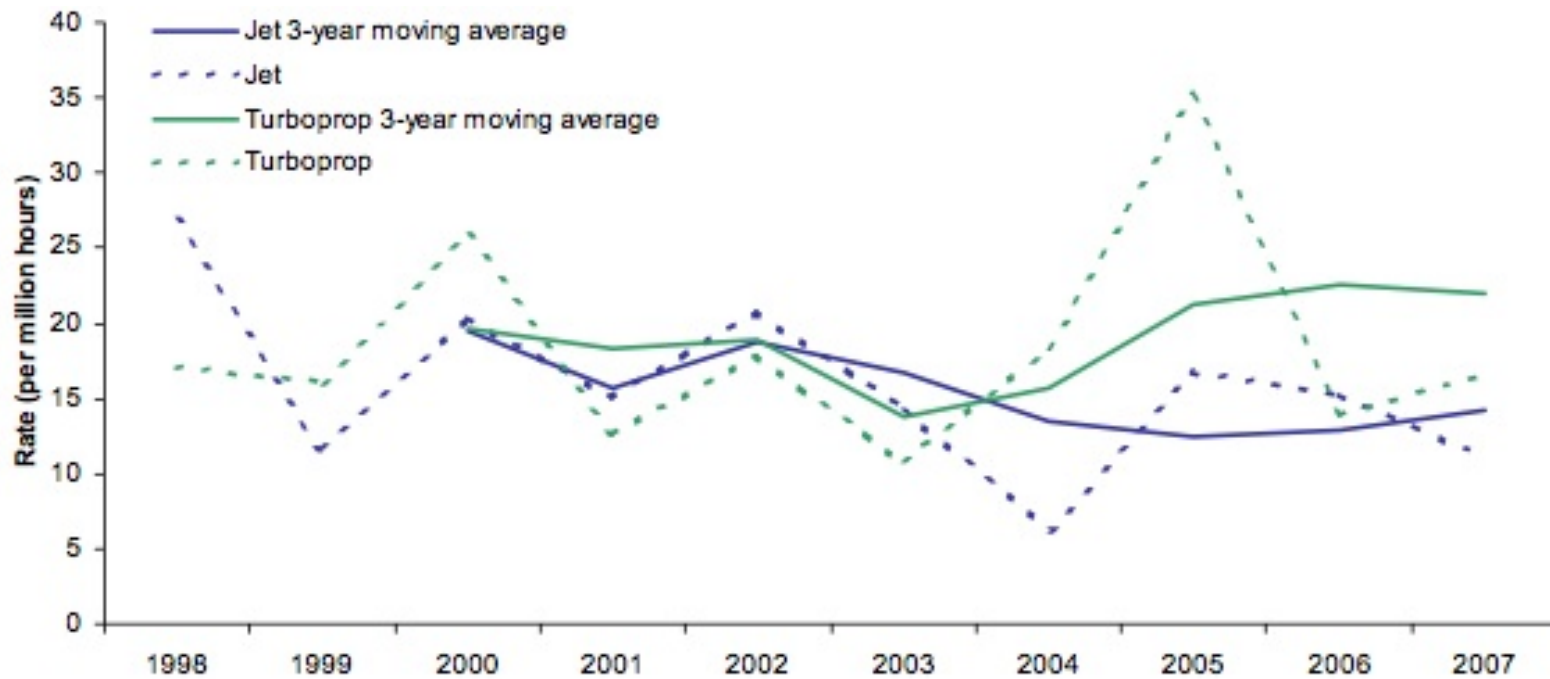


Figure 8 Worldwide fatality rate (per million hours) by class of aircraft

Benefits

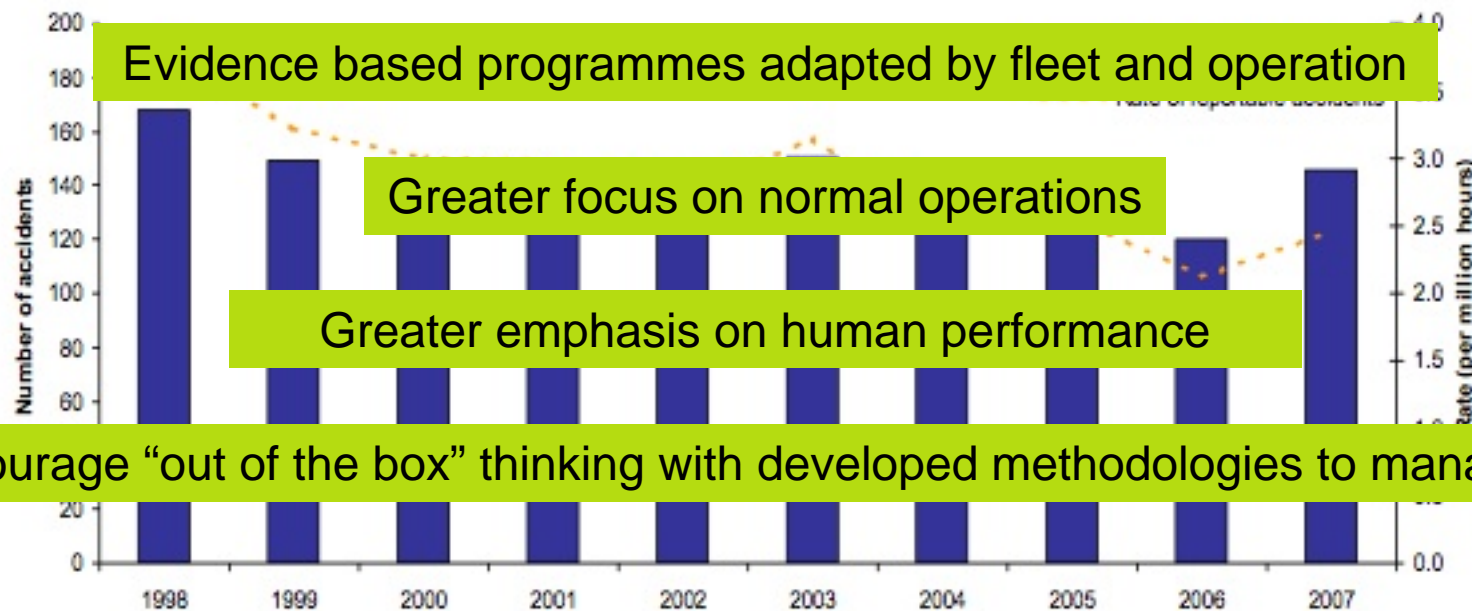
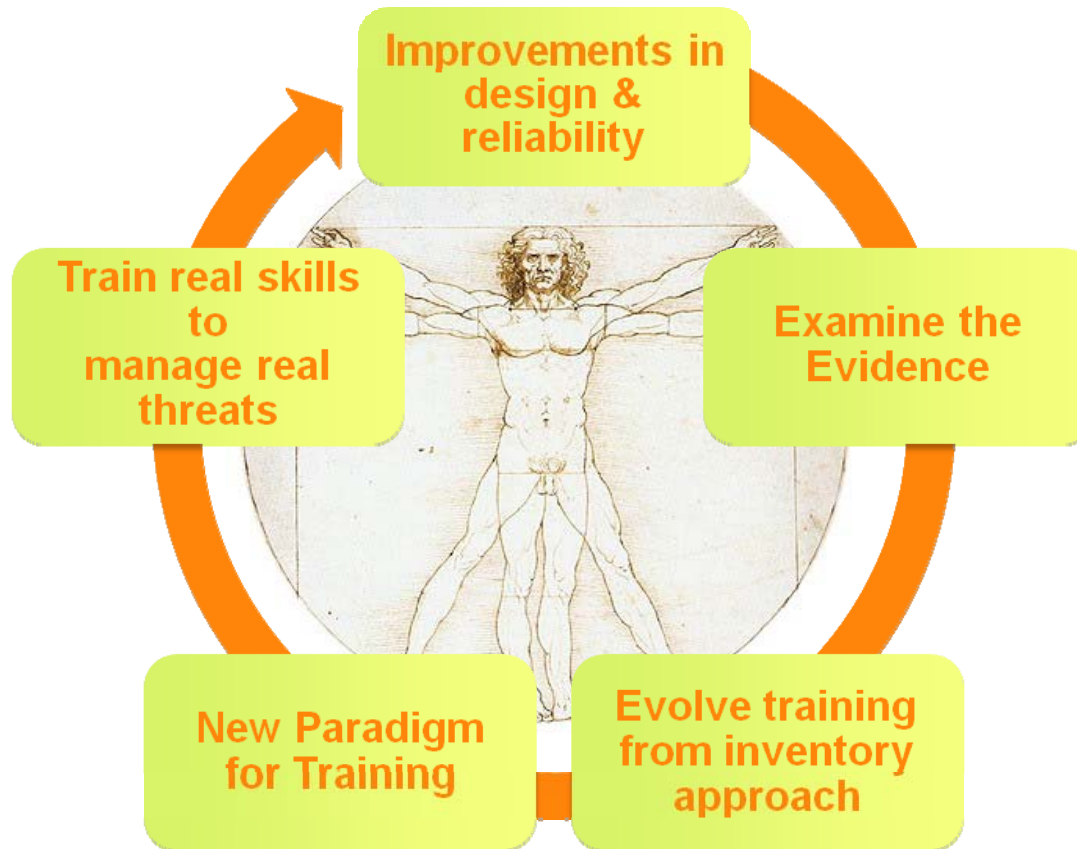


Figure 1 Worldwide reportable accidents involving large transport aircraft



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