

# EBT Module Customisation

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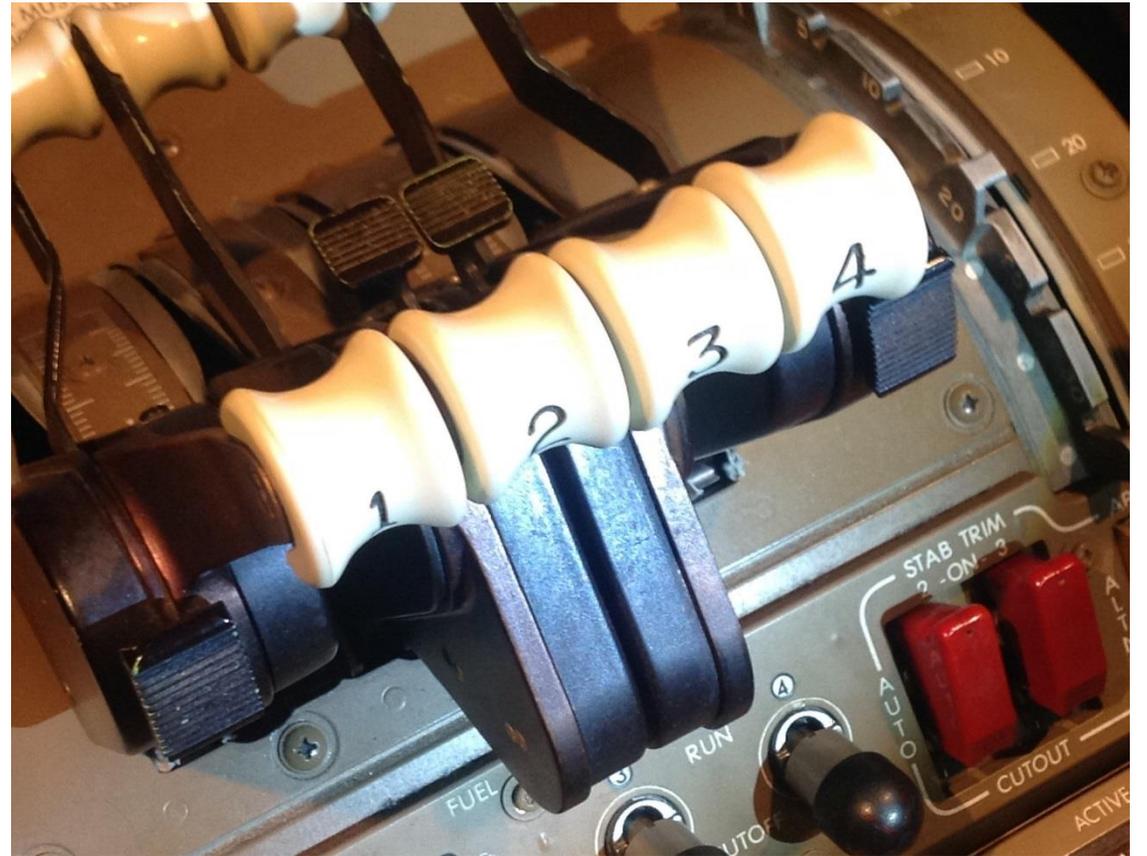
Part of EASA EBT rule-making group



# EBT Module Customisation

This presentation will cover:

- Choosing competencies
- Choosing scenario elements
- Combining requirements
- Module customisation





# Syllabus of Training Topics

- Matrix of training topics
- A and B frequency are less flexible
- C frequency are more flexible
- Add in all your other requirements

Evaluation and Scenario-based Training Phases Assessment and Training Topics	Check					
	A	B	C	D	E	F
Adverse weather	✓	✓	✓	✓	✓	✓
Automation management	✓	✓	✓	✓	✓	✓
CRM	✓	✓	✓	✓	✓	✓
Compliance	✓	✓	✓	✓	✓	✓
Go-around management	✓	✓	✓	✓	✓	✓
Manual aircraft control	✓	✓	✓	✓	✓	✓
In seat instruction	✓	✓	✓	✓	✓	✓
Unstable approach	✓	✓	✓	✓	✓	✓
Aircraft system malfunctions - Immediacy		✓		✓		✓
Aircraft system malfunctions - Complexity		✓		✓		✓
Aircraft system malfunctions - Degradation of aircraft control	PF	✓		✓		✓
Aircraft system malfunctions - Loss of instrumentation	PF	✓		✓		✓
Aircraft system malfunctions - Management of consequences		✓		✓		✓
Adverse wind		✓		✓		✓
Aircraft system management		✓		✓		✓
Approach, visibility close to minimum	✓		✓		✓	
Landing		✓		✓		✓
Runway or taxiway condition	✓		✓		✓	
Surprise	✓		✓		✓	
Terrain	✓		✓		✓	
Workload, distraction, pressure		✓		✓		✓
Windshear		✓		✓		✓
Upset recovery		✓		✓		✓
ATC						✓
Engine failure		✓				
Fire and smoke management					✓	
Loss of communications	✓					
Managing loading, fuel, performance errors				✓		
Navigation				✓		
Pilot incapacitation			✓			
Traffic						✓

# Choosing Scenario Elements

Start with ICAO Doc 9995:

Assessment and training topic	Frequency	Flight phase for activation	Description (include type of topic, being threat, error or focus)	Desired outcome (includes performance criteria OR training outcome)	Example scenario elements	Application of procedures	Communication	Flight path management, automation	Flight path management, manual control	Leadership and teamwork	Problem solving and decision making	Situation awareness	Workload management
						Generation 4 Jet — Recurrent Assessment and Training Matrix						Competency map	
Navigation	C	GRD	External NAV failure. Loss of GPS satellite, ANP exceeding RNP, loss of external NAV source(s)	Recognize a NAV degradation. Take appropriate action Execute appropriate procedure as applicable Use alternative NAV guidance Manage consequences	External failure or a combination of external failures degrading aircraft navigation performance	x		x			x	x	
		TO CLB APP LDG					x			x	x	x	

# Choosing Scenario Elements

From ICAO Doc 9995:

1.2.7 *Example scenario elements.* A list of example scenarios addressing the training topic. This list contains only key elements of sample scenarios; operators are encouraged to develop alternative scenarios.

From the EASA NPA:

Assessment and training topic	Frequency	Flight phase for activation	Description (includes type of topic, being threat, error or focus)	Desired outcome (includes performance criteria OR training outcome)	Guidance material (GM) OR Example scenario elements	APK	COM	FPA	FPM	LTW	PSD	SAW	WLM	KNO
						Competency map								
Generation 4 Jet – Recurrent assessment and training matrix														
Navigation	C	GND	External NAV failure. Loss of GPS satellite, ANP exceeding RNP, loss of external NAV source(s)	Recognise a NAV degradation. Take appropriate action Execute appropriate procedure as applicable	External failure or a combination of external failures degrading aircraft navigation performance	x		x			x	x		
		TO CLB APP LDG		Use alternative NAV guidance Manage consequences	External failure or a combination of external failures degrading aircraft navigation performance		x			x	x	x		

# Choosing Scenario Elements

- Incidents and reports
- Flight data events and trends
- Training results from previous EBT modules
- LOQE / LOSA / other audits
- External accidents and incidents



**Evidence!**

*Set up a Training Safety Action Group as part of your EBT (and MS)*

# Combining Programme Requirements

It's possible to create a simple spreadsheet or database of competencies, training topics and scenario elements

SEASON	APK	COM	FPA	FPM	LTW	PSD	SAW	WLM	KNO	PHASE
OCT20-MAR21										<b>Flight phase</b>
<div style="border: 1px solid black; padding: 5px;">                     To filter a competency select the "YES"                      To clear a filter click on the red cross                 </div>	NO	ALL								
	YES	APP								
	(blank)	(blank)	(bla...	(bla...	(bla...	(blank)	(bla...	(bla...	(blank)	APP, LDG
<div style="border: 1px solid orange; padding: 5px;"> <b>[-] Evaluation and scenario-based training phases</b> <ul style="list-style-type: none"> <li>⊕ Adverse weather</li> <li>⊕ Adverse wind</li> <li>⊕ Aircraft system management</li> <li>⊕ Approach, visibility close to minimum</li> <li>⊕ Automation management</li> <li>⊕ Competencies nontechnical (CRM)</li> <li>⊕ Compliance</li> <li>⊕ Fire and smoke management</li> <li>⊕ Go-around management</li> <li>⊕ Manual aircraft control</li> <li>⊕ Monitoring, cross checking, error management, mismanaged aircraft state</li> <li>⊕ Terrain</li> </ul> </div>										
										CLB



# Other Module Customisation

Airbus v Boeing?  
Longhaul v Shorthaul?  
Captains v First Officers?  
Experienced v Inexperienced?

... and ultimately customise SBT to the needs of the trainees



Questions?