

# EBT Module Customisation

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Training Captain A320

EBT programme manager for BA

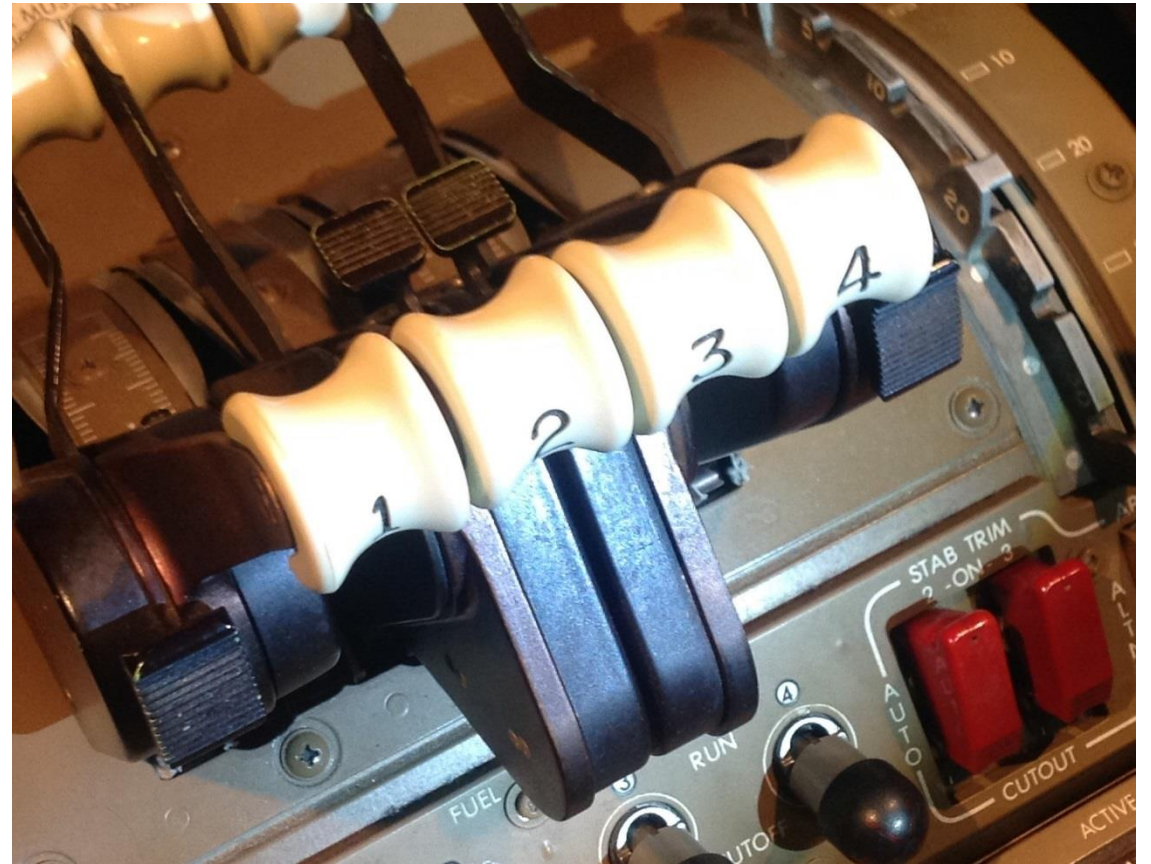
Part of EASA EBT rule-making group



# EBT Module Customisation

This presentation will cover:

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



## Choosing Competencies for Focus

Follow a fixed three-year schedule:

Year 1				Year 2				Year 3															
Module 1 (800 h FFS)				Module 2 (800 h FFS)				Module 3 (800 h FFS)				Module 4 (800 h FFS)				Module 5 (800 h FFS)				Module 6 (800 h FFS)			
EVAL	MV	SBT	Rt	EVAL	MV	SBT	Rt	EVAL	MV	SBT	Rt	EVAL	MV	SBT	Rt	EVAL	MV	SBT	Rt	EVAL	MV	SBT	Rt
				APK				APK				APK								APK			
COM																COM							
								FPA															
				KNO				FPM				FPM								FPM			
LTW																LTW							
PSD				PSD				PSD				PSD											
SAW				SAW																			
WLM																WLM							

## Identify your own competencies for focus:

- analyse air safety reports and/or flight data events
- analyse training results from previous EBT modules



**Evidence!**

# 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							
Training phases	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			External failure or a combination of external failures degrading aircraft navigation performance		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	RNO
Generation 4 Jet — Recurrent assessment and training matrix						Competency map								
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										Flight phase
<div><p>To filter a competency select the "YES"</p><p>To clear a filter click on the red cross</p></div>	NO	NO	NO	NO	NO	NO	NO	NO	NO	ALL
	YES	YES	YES	YES	YES	YES	YES	YES	YES	APP
	(blank)	(blank)	(bla...	(bla...	(bla...	(blank)	(bla...	(bla...	(blank)	APP, LDG
<div><div><div><div><div></div><div></div></div><div><div></div><div></div></div></div><div><div></div><div></div></div><div><div></div><div></div></div><div><div></div><div></div></div><div><div></div><div></div></div><div><div></div><div></div></div><div><div></div><div></div></div><div><div></div><div></div></div><div><div></div><div></div></div><div><div></div><div></div></div><div><div></div><div></div></div><div><div></div><div></div></div><div><div></div><div></div></div><div><div></div><div></div></div><div><div></div><div></div></div><div><div></div><div></div></div><div><div></div><div></div></div><div><div></div><div></div></div><div><div></div><div></div></div><div><div></div><div></div></div><div><div></div><div></div></div><div><div></div><div></div></div><div><div></div><div></div></div><div><div></div><div></div></div><div><div></div><div></div></div><div><div></div><div></div></div><div><div></div><div></div></div><div><div></div><div></div></div><div><div></div><div></div></div><div><div></div><div></div></div><div><div></div><div></div></div><div><div></div><div></div></div><div><div></div><div></div></div><div><div></div><div></div></div><div><div></div><div></div></div><div><div></div><div></div></div><div><div></div><div></div></div><div><div></div><div></div></div><div><div></div><div></div></div><div><div></div><div></div></div><div><div></div><div></div></div><div><div></div><div></div></div><div><div></div><div></div></div><div><div></div><div></div></div><div><div></div><div></div></div><div><div></div><div></div></div><div><div></div><div></div></div><div><div></div><div></div></div><div><div></div><div></div></div><div><div></div><div></div></div><div><div></div><div></div></div><div><div></div><div></div></div><div><div></div><div></div></div><div><div></div><div></div></div><div><div></div><div></div></div><div><div></div><div></div></div><div><div></div><div></div></div><div><div></div><div></div></div><div><div></div><div></div></div><div><div></div><div></div></div><div><div></div><div></div></div><div><div></div><div></div></div><div><div></div><div></div></div><div><div></div><div></div></div><div><div></div><div></div></div><div><div></div><div></div></div><div><div></div><div></div></div><div><div></div><div></div></div><div><div></div><div></div></div><div><div></div><div></div></div><div><div></div><div></div></div><div><div></div><div></div></div><div><div></div><div></div></div><div><div></div><div></div></div><div><div></div><div></div></div><div><div></div><div></div></div><div><div></div><div></div></div><div><div></div><div></div></div><div><div></div><div></div></div><div><div></div><div></div></div><div><div></div><div></div></div><div><div></div><div></div></div><div><div></div><div></div></div><div><div></div><div></div></div><div><div></div><div></div></div><div><div></div><div></div></div><div><div></div><div></div></div><div><div></div><div></div></div><div><div></div><div></div></div><div><div></div><div></div></div><div><div></div><div></div></div><div><div></div><div></div></div><div><div></div><div></div></div><div><div></div><div></div></div><div><div></div><div></div></div><div><div></div><div></div></div><div><div></div><div></div></div><div><div></div><div></div></div><div><div></div><div></div></div><div><div></div><div></div></div><div><div></div><div></div></div><div><div></div><div></div></div><div><div></div><div></div></div><div><div></div><div></div></div><div><div></div><div></div></div><div><div></div><div></div></div><div><div></div><div></div></div><div><div></div><div></div></div><div><div></div><div></div></div><div><div></div><div></div></div><div><div></div><div></div></div><div><div></div><div></div></div><div><div></div><div></div></div><div><div></div><div></div></div><div><div></div><div></div></div><div><div></div><div></div></div><div><div></div><div></div></div><div><div></div><div></div></div><div><div></div><div></div></div><div><div></div><div></div></div><div><div></div><div></div></div><div><div></div><div></div></div><div><div></div><div></div></div><div><div></div><div></div></div><div><div></div><div></div></div><div><div></div><div></div></div><div><div></div><div></div></div><div><div></div><div></div></div><div><div></div><div></div></div><div><div></div><div></div></div><div><div></div><div></div></div><div><div></div><div></div></div><div><div></div><div></div></div><div><div></div><div></div></div><div><div></div><div></div></div><div><div></div><div></div></div><div><div></div><div></div></div><div><div></div><div></div></div><div><div></div><div></div></div><div><div></div><div></div></div><div><div></div><div></div></div><div><div></div><div></div></div><div><div></div><div></div></div><div><div></div><div></div></div><div><div></div><div></div></div><div><div></div><div></div></div><div><div></div><div></div></div><div><div></div><div></div></div><div><div></div><div></div></div><div><div></div><div></div></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# Combining Programme Requirements

And then use the filters to help build each module

SEASON	APK	COM	FPA	FPM	LTW	PSD	S/W	WLM	KNO	PHASE
OCT19-MAR20										Flight phase
<div>To filter a competency select the "YES"</div> <div>To clear a filter click on the red cross</div>	<div>NO</div> <div>YES</div> <div>(blank)</div>	<div>NO</div> <div>YES</div> <div>(blank)</div>	<div>NO</div> <div>YES</div> <div>(bla...</div>	<div>NO</div> <div>YES</div> <div>(bla...</div>	<div>YES</div> <div>NO</div> <div>(bla...</div>	<div>YES</div> <div>NO</div> <div>(blank)</div>	<div>YES</div> <div>NO</div> <div>(bla...</div>	<div>NO</div> <div>YES</div> <div>(bla...</div>	<div>NO</div> <div>YES</div> <div>(blank)</div>	<div>APP</div> <div>DES</div> <div>ALL</div> <div>APP</div>
<div>[-] Evaluation and scenario-based training phases</div> <div>[-] Competencies nontechnical (CRM)</div> <div>[-] This encapsulates communication; leadership and teamwork; problemsolving a</div> <div>Cabin crew report of water noise below the forward galley indicating a possi</div> <div>GPS failure prior to commencement of approach associated with position dri</div>	✗	✗	✗	✗	✓	✓	✓	✗	✗	DE
Grand Total	✗	✗	✗	✗	✓	✓	✓	✗	✗	AP

## 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?

