

# Aeroplane FSTD Training Credits

An Alternative approach

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# The matrix



# The matrix

GM1 Appendix 9 to Part-FCL (proposed)

[illegible]

# The matrix

GM1 Appendix 9 to Part-FCL (proposed)

FFS level  
A/B/C/D

	EASA Training Provisions (hours)					Maximum FSTD Training Credits (hours)									
	AIRCREW/AIOPS reference	Flight Instruction	Dual	SPIC	Solo (PIC)	BIT D	FNPT I	FNPT II	FNPT II MCC	FTD 1	FTD 2	FFS Level A/AG	FFS Level B/BG	FFS Level C, CG, interim C	FFS Level D/DG
IR-SE (A)/IR-ME revalidation	FCL 675.A IR(A)	10	10	NO	NO	NO	NO	YES (2)	YES (2)	NO	NO	YES (2)	YES (2)	YES (2)	YES (2)
IR(H) to IR-SE	Appendix 6, Subpart A.10.2	10	10	NO	NO	NO	YES*	YES*	YES*	NO	NO				
IR(H) to IR-ME	Appendix 6, Subpart A.10.2	10	10	NO	NO	NO	YES*	YES*	YES*	NO	NO				
EIR (SE)		16, of 100 m		NO	NO					NO	NO	NO	NO	NO	NO
EIR (ME)		16, of 100 m		NO	NO					NO	NO	NO	NO	NO	NO
EIR (SE) revalidation	FCL 823(a)			NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
CB-IR-SE	FCL 613 + Appendix 6, Subpart Aa	40	40	NO	NO	NO	10	25	25	NO	NO	YES	YES	YES	YES
CB-IR-ME	FCL 613 + Appendix 6, Subpart Aa	45	45	NO	NO	NO	YES	YES	YES	NO	NO	YES	YES	YES	YES
Multi-Crew Cooperation															
MCC modular course	FCL 735.A	20		NO	NO	NO	NO	NO	20	NO	NO	2	2	2	20
Instructor Training															
FI	FCL 930.FI(b)(1)	30	25	NO	NO	NO	YES	YES	YES	NO	YES	YES	YES	YES	YES
CRI SE	FCL 930.FI(b)(1) CRI +	3	3	NO	NO	NO	NO	NO	NO	NO	NO	YES	YES	YES	YES
CRI ME	FCL 930.FI(b)(1) CRI +	3	3	NO	NO	NO	NO	NO	NO	NO	NO	YES	YES	YES	YES
IRI	FCL 930.FI(b)(1) IRI	10	10	NO	NO	NO	YES	YES	YES	NO	YES	YES	YES	YES	YES
MCC (A)	FCL 930.MCC + AMC									YES	NO	YES	YES	YES	YES
MPL instructor	FCL 923(b)(1)			NO	NO	NO	NO	NO	NO	NO	YES (1*)	YES	YES	YES	YES

Flight  
Instruction

MCC Modular Course

FNPT II MCC

FCL.735.A

"An FNPT II MCC or an FFS shall be used"

# The matrix

GM1 Appendix 9 to Part-FCL (proposed)

FFS level  
B/C/D

[illegible]

# The matrix

## GM1 Appendix 9 to Part-FCL (proposed)

	EASA Training Provisions (hours)					Maximum FSTD Training Credits (hours)									
	AIRCREW/AIOPS reference	Flight Instruction s	Dual	SPIC	Solo (PIC)	B/IT D	FNPT I	FNPT II	FNPT II MCC	FTD 1	FTD 2	FFS Level A/AG	FFS Level B/BG	FFS Level C, CG, interim C	FFS Level D/DG
SEP (Sea)	FCL.725.A	10, 8 if SEP (Land) rated	SEP (Land) rated	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
MEP (Land)	FCL.725.A	6	6	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
MEP (Sea)	FCL.725.A	10, 8 if MEP (Land) rated	10, 8 if MEP (Land) rated	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
SET	FCL.725.A														
MET	FCL.725.A														
Type Rating															
Type Rating Course SP	FCL.725.A + AMC2 ORA.ATO.125(j)					NO	NO	NO	NO	YES	YES	YES	YES	YES	YES
Type Rating Course MP	FCL.725.A + AMC2 ORA.ATO.125(j)	MPA 32 hours/16 using an FFS				NO	NO	NO	NO	PARTIALLY	PARTIALLY	PARTIALLY	YES	YES	YES
ZFT Type Rating Course	FCL.725.A	MPA 32 hours/16 using an FFS				NO	NO	NO	NO	PARTIALLY	PARTIALLY	NO	NO	YES	YES
Recency of Experience															
Recent Experience					NO	NO	NO	NO	NO	NO	NO	NO	YES	YES	YES
Operator Training															
Route/Area/ Aerodrome Knowledge	AMC1 ORO.FC.105(b)(2);(c)(+).(2)(iii) + (c)(2)					NO	NO	NO	NO	NO	YES*	YES	YES	YES	YES
CRM Training	AMC 1 ORO.FC.115(a)(1) + (a)(4)					NO	NO	NO	NO	NO	YES*	YES	YES	YES	YES
Command Course	ORO.FC.205					NO	NO	NO	NO	NO	NO	PARTIALLY	YES	YES	YES
Operator Conversion ZFTT (6 circling															

AMC1 ORA.ATO.125

# The matrix

## AMC1 ORA.ATO.125 Training Programme

The amount of training required when using FSTDs will depend on the complexity of the aeroplane concerned, and to some extent on the previous experience of the pilot.

Except for those courses giving credit for previous experience, a minimum of 32 hours of FSTD training should be programmed for a crew of a multi-pilot aeroplane, of which at least 16 hours should be in an FFS operating as a crew.

FFS time may be reduced if other qualified FSTDs used during the flight training programme accurately replicate the cockpit environment, operation and aeroplane response.



# The matrix

## GM1 Appendix 9 to Part-FCL (proposed)

						Maximum FSTD Training Credits (hours)									
			Dual	SPIC	Solo (PIC)	B/T D	FNPT I	FNPT II	FNPT II MCC	FTD 1	FTD 2	FFS Level A/AG	FFS Level B/BG	FFS Level C, CG, interim C	FFS Level D/DG
IR-ME	Appendix 6, Subpart A.9	55	55	NO	NO	NO	25	40	40	NO	NO	40	40	40	40
IR-SE (A) to IR-ME	Appendix 6, Subpart A.9	5	5	NO	NO	NO	NO	3	3	NO	NO	3	3	3	3
IR-SE (A)/IR-ME revalidation	FCL.625.A IR(A)					NO	NO	YES (2)	YES (2)	NO	NO	YES (2)	YES (2)	YES (2)	YES (2)
IR(H) to IR-SE	Appendix 6, Subpart A.10.2	10	10	NO	NO	NO	YES*	YES*	YES*	NO	NO				
IR(H) to IR-ME	Appendix 6, Subpart A.10.2	10	10	NO	NO	NO	YES*	YES*	YES*	NO	NO				
IR (SE)	FCL.825(c)	15	15	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
IR (ME)	FCL.825(c)	15	15	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
IR (ME) revalidation	FCL.825(g)					NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
CB-IR-SE	FCL 615 + Appendix 6, Subpart Aa	40	40	NO	NO	NO	10	25	25	NO	NO	YES	YES	YES	YES
CB-IR ME	FCL 615 + Appendix 6, Subpart Aa	45	45	NO	NO	NO	YES	YES	YES	NO	NO	YES	YES	YES	YES
Multi-Crew Cooperation															
MCC modular course	FCL.735.A	20	20	NO	NO	NO	NO	NO	20	NO	NO	20	20	20	20
Instructor Training															
FI	FCL.930.FI FI(b)(3)	30	25	NO	NO	NO	YES	YES	YES	NO	YES	YES	YES	YES	YES
CRI SE	FCL.930.CRI CRI + AMC1 FCL.930.CRI CRI(c)	3	3	NO	NO	NO	NO	NO	NO	NO	NO	YES	YES	YES	YES
CRI ME	FCL.930.CRI CRI + AMC1 FCL.930.CRI CRI(c)	5	5	NO	NO	NO	NO	NO	NO	NO	NO	YES	YES	YES	YES
IRI	FCL.930.IRI IRI(3)(i)	10, 5 if FI (A)	10, 5 if FI (A)	NO	NO	NO	YES	YES	YES	NO	YES	YES	YES	YES	YES
MCCI	FCL.930.MCCI MCCI + AMC1 FCL.930.MCCI MCCI(c)	5	5	NO	NO	NO	NO	NO	NO	NO	NO	YES	YES	YES	YES

ORO.FC.230(f)

Operator recurrent training and checking



# The matrix

ORO.FC.230

## Recurrent training and checking

Each flight crew member shall undergo ground training and flight training in **an FSTD** or an aircraft ...



# The matrix

ORO.FC.230

## Recurrent training and checking

Each flight crew member shall undergo ground training and flight training in **an FSTD** or an aircraft ...



# The matrix

ORO.FC.230

## Recurrent training and checking

Each flight crew member shall undergo ground training and flight training in **an FSTD** or an aircraft, or a combination of FSTD and aircraft training, at least every 12 calendar months.



# The matrix

GM1 Appendix 9 to Part-FCL (proposed)

		Hours								Maximum FSTD		Training Credits (hours)		FFS Level C, CG, interim C		FFS Level D/DG	
		Dual	SPIC	Solo (PIC)		BIT D	FNPT I	FNPT II	FNPT II MCC	FTD 1	FTD 2	FFS Level A/AG	FFS Level B/BG	FFS Level C, CG, interim C	FFS Level D/DG		
Training	AMC2 ORO.FC.220&230(a)					NO	NO	NO	NO	NO	YES	YES	YES	YES	YES		
Upset Recovery Training	AMC2 ORO.FC.220&230(b)					NO	NO	NO	NO								
Recurrent Training and Checking	ORO.FC.230(f)					NO	NO	NO	NO	NO	PARTIAL	YES	YES	YES	YES		
Instrument Rating																	
IR-SE	FCL 615 + Appendix 6, Subpart A	50	50	NO	NO	NO	20	35	35	NO	NO	35	35	35	35		
IR-ME	FCL 615 + Appendix 6, Subpart A	55	55	NO	NO	NO	25	40	40	NO	NO	40	40	40	40		
IR-SE (A) / IR-ME revalidation	FCL 615 + Appendix 6, Subpart A	5	5	NO	NO	NO	NO	3	3	NO	NO	3	3	3	3		
IR(H) to IR(ME)	FCL 615 + Appendix 6, Subpart A.10.2	10	10	NO	NO	NO	YES*	YES*	YES*	NO	NO						
EIR (SE)	FCL.825(c)	15	15	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO		
EIR (ME)	FCL.825(c)	16, 4 of them with an MEP aeroplane	16, 4 of them with an MEP aeroplane	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO		
EIR (SE-ME) revalidation	FCL.825(g)			NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO		
CB-IR-SE	FCL 615 + Appendix 6, Subpart Aa	40	40	NO	NO	NO	10	25	25	NO	NO	YES	YES	YES	YES		
CB-IR ME	FCL 615 + Appendix 6, Subpart Aa	45	45	NO	NO	NO	YES	YES	YES	NO	NO	YES	YES	YES	YES		
Multi-Crew Cooperation																	
MCC modular course	FCL.735.A	20	20	NO	NO	NO	NO	NO	20	NO	NO	20	20	20	20		

ORO.FC.230(f)

Operator recurrent training and checking

FTD 1

FTD 2

FFS level A

FFS level B/C/D

NO

PARTIAL

YES

YES

YES

# The matrix:

## Conclusions?

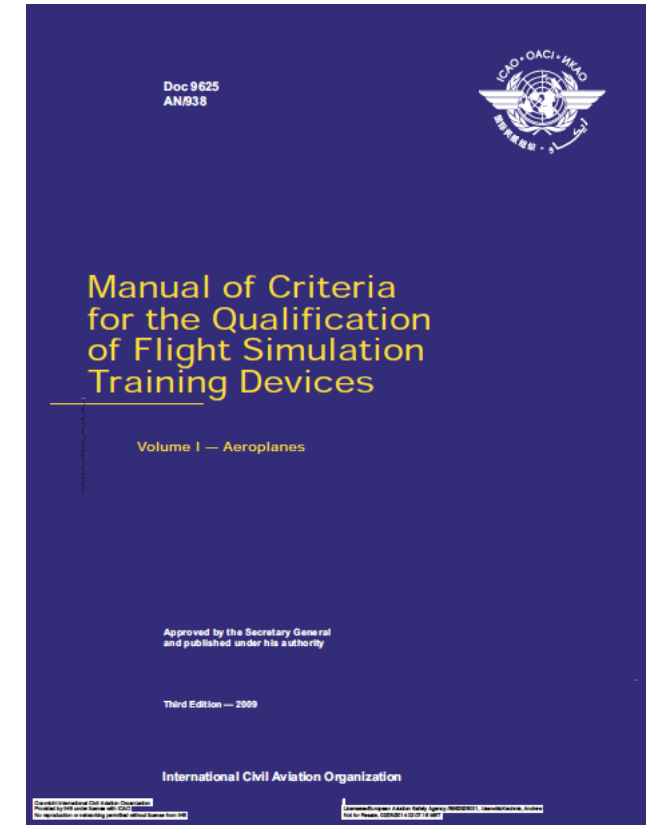
- Users need guidance on selection of FSTD for various training courses;
- Requirements are complex and not easily mapped into a matrix;
- Selection of device needs to be determined by training course designer, not regulation.

	EASA Training Provisions (hours)					Maximum FSTD Training Credits (hours)									
	AIRCRAFT/AIOPS reference	Flight Instruction	Dual	SPIC	Solo (PIC)	BIT D	FNPT I	FNPT II	FNPT II MCC	FTD 1	FTD 2	FFS Level A/AG	FFS Level B/AG	FFS Level C, CG, interim C	FFS Level D/DG
Type of Training															
Upset Prevention Training	AMC2 ORO.FC.220&230(a)					NO	NO	NO	NO	NO	YES	YES	YES	YES	YES
Upset Recovery Training	AMC2 ORO.FC.220&230(b)					NO	NO	NO	NO	NO	NO	NO	YES*	YES	YES
Recurrent Training and Checking	ORO.FC.230(f)					NO	NO	NO	NO	NO		PARTIALLY	YES	YES	YES
Instrument Rating															
IR-SE	FCL 615 + Appendix 6, Subpart A	30	30	NO	NO	NO	20	35	35	NO	NO	35	35	35	35
IR-ME	FCL 615 + Appendix 6, Subpart A	35	35	NO	NO	NO	25	40	40	NO	NO	40	40	40	40
IR-SE (A) to IR-ME	Appendix 6, Subpart A.9	5	5	NO	NO	NO	NO	3	3	NO	NO	3	3	3	3
IR-SE (A) to IR-ME revalidation	FCL 625.A IR(A)					NO	NO	YES (2)	YES (2)	NO	NO	YES (2)	YES (2)	YES (2)	YES (2)
IR(H) to IR-SE	Appendix 6, Subpart A.10.2	10	10	NO	NO	NO	YES*	YES*	YES*	NO	NO				
IR(H) to IR-ME	Appendix 6, Subpart A.10.2	10	10	NO	NO	NO	YES*	YES*	YES*	NO	NO				
EIR (SE)	FCL 825(c)	15	15	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
EIR (ME)	FCL 825(c)	16, 4 of them with an MEP aeroplane		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
EIR (SE-ME) revalidation	FCL 825(g)			NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
CB-IR-SE	FCL 615 + Appendix 6, Subpart Aa	40	40	NO	NO	NO	10	25	25	NO	NO	YES	YES	YES	YES
CB-IR ME	FCL 615 + Appendix 6, Subpart Aa	45	45	NO	NO	NO	YES	YES	YES	NO	NO	YES	YES	YES	YES
Multi-Crew Cooperation															
MCC modular course	FCL 735.A	20	20	NO	NO	NO	NO	NO	20	NO	NO	20	20	20	20
Instructor Training															
FI	FCL 930.FI FI(b)(3)	30	25	NO	NO	NO	YES	YES	YES	NO	YES	YES	YES	YES	YES
CRI SE	FCL 930.CRI CRI + AMC1 FCL 930.CRI CRI(c)	3	3	NO	NO	NO	NO	NO	NO	NO	NO	YES	YES	YES	YES
CRI ME	FCL 930.CRI CRI + AMC1 FCL 930.CRI CRI(c)	5	5	NO	NO	NO	NO	NO	NO	NO	NO	YES	YES	YES	YES
IRI	FCL 930.IRI IRI(3)(i)	10, 5 if FI (A)	10, 5 if FI (A)	NO	NO	NO	YES	YES	YES	NO	YES	YES	YES	YES	YES
MCC (A)	FCL 930.MCC MCC + AMC1 FCL 930.MCC MCC	3	3	NO	NO	NO	NO	NO	YES	NO	YES	YES	YES	YES	YES
MPL instructor	FCL 925(b)(1)			NO	NO	NO	NO	NO	NO	NO	YES (1*)	YES	YES	YES	YES



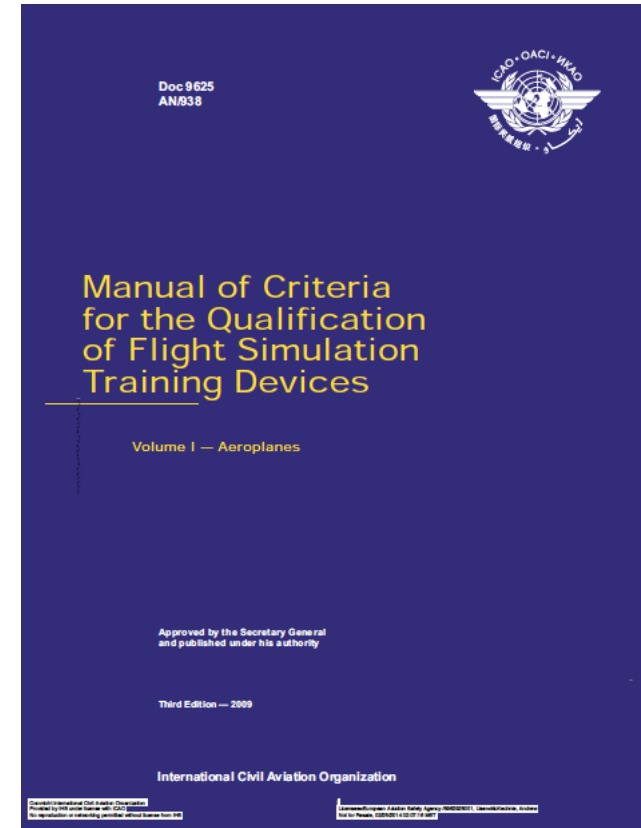
# An alternative?

	EASA Training Provisions (hours)					Maximum FSTD Training Credits (hours)									
	AIRCREW/AIOPS reference	Flight Instruction s	Dual	SPIC	Solo (PIC)	BIT D	FNPT I	FNPT II	FNPT II MCC	FTD 1	FTD 2	FFS Level A/AG	FFS Level B/IG	FFS Level C, CG, interim C	FFS Level D/DG
Type of Training															
Upset Prevention Training	AMC2 ORO.FC.220&230(a)					NO	NO	NO	NO	NO	YES	YES	YES	YES	YES
Upset Recovery Training	AMC2 ORO.FC.220&230(b)					NO	NO	NO	NO	NO	NO	NO	YES*	YES	YES
Recurrent Training and Checking	ORO.FC.230(f)					NO	NO	NO	NO	NO		PARTIALLY	YES	YES	YES
Instrument Rating															
IR-SE	FCL 615 + Appendix 6, Subpart A	30	30	NO	NO	NO	20	35	35	NO	NO	35	35	35	35
IR-ME	FCL 615 + Appendix 6, Subpart A	35	35	NO	NO	NO	25	40	40	NO	NO	40	40	40	40
IR-SE (A) to IR-ME	Appendix 6, Subpart A.9	5	5	NO	NO	NO	NO	3	3	NO	NO	3	3	3	3
IR-SE (A) to IR-ME revalidation	FCL 625.A IR(A)					NO	NO	YES (2)	YES (2)	NO	NO	YES (2)	YES (2)	YES (2)	YES (2)
IR(H) to IR-SE	Appendix 6, Subpart A.10.2	10	10	NO	NO	NO	YES*	YES*	YES*	NO	NO				
IR(H) to IR-ME	Appendix 6, Subpart A.10.2	10	10	NO	NO	NO	YES*	YES*	YES*	NO	NO				
EIR (SE)	FCL 825(c)	15	15	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
EIR (ME)	FCL 825(c)	16, 4 of them with an MEP aeroplane		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
EIR (SE-ME) revalidation	FCL 825(g)			NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
CB-IR-SE	FCL 615 + Appendix 6, Subpart Aa	40	40	NO	NO	NO	10	25	25	NO	NO	YES	YES	YES	YES
CB-IR ME	FCL 615 + Appendix 6, Subpart Aa	45	45	NO	NO	NO	YES	YES	YES	NO	NO	YES	YES	YES	YES
Multi-Crew Cooperation															
MCC modular course	FCL 735.A	20	20	NO	NO	NO	NO	NO	20	NO	NO	20	20	20	20
Instructor Training															
FI	FCL 930.FI FI(b)(3)	30	25	NO	NO	NO	YES	YES	YES	NO	YES	YES	YES	YES	YES
CRI SE	FCL 930.CRI CRI + AMC1 FCL 930.CRI CRI(c)	3	3	NO	NO	NO	NO	NO	NO	NO	NO	YES	YES	YES	YES
CRI ME	FCL 930.CRI CRI + AMC1 FCL 930.CRI CRI(c)	5	5	NO	NO	NO	NO	NO	NO	NO	NO	YES	YES	YES	YES
IRI	FCL 930.IRI IRI(3)(i)	10, 5 if FI (A)	10, 5 if FI (A)	NO	NO	NO	YES	YES	YES	NO	YES	YES	YES	YES	YES
MCC (A)	FCL 930.MCCI MCC + AMC 1 FCL 930.MCC MCC	3	3	NO	NO	NO	NO	NO	YES	NO	YES	YES	YES	YES	YES
MPL instructor	FCL 925(b)(1)			NO	NO	NO	NO	NO	NO	NO	YES (1*)	YES	YES	YES	YES



# The methodology

Adapted from



# The methodology



## Training Tasks:

- Course requirements in regulations (e.g. Part-FCL, Part-ORO);
- Course design (e.g. MPL, EBT);
- Examples in ICAO 9625.

## List of training tasks.

e.g.

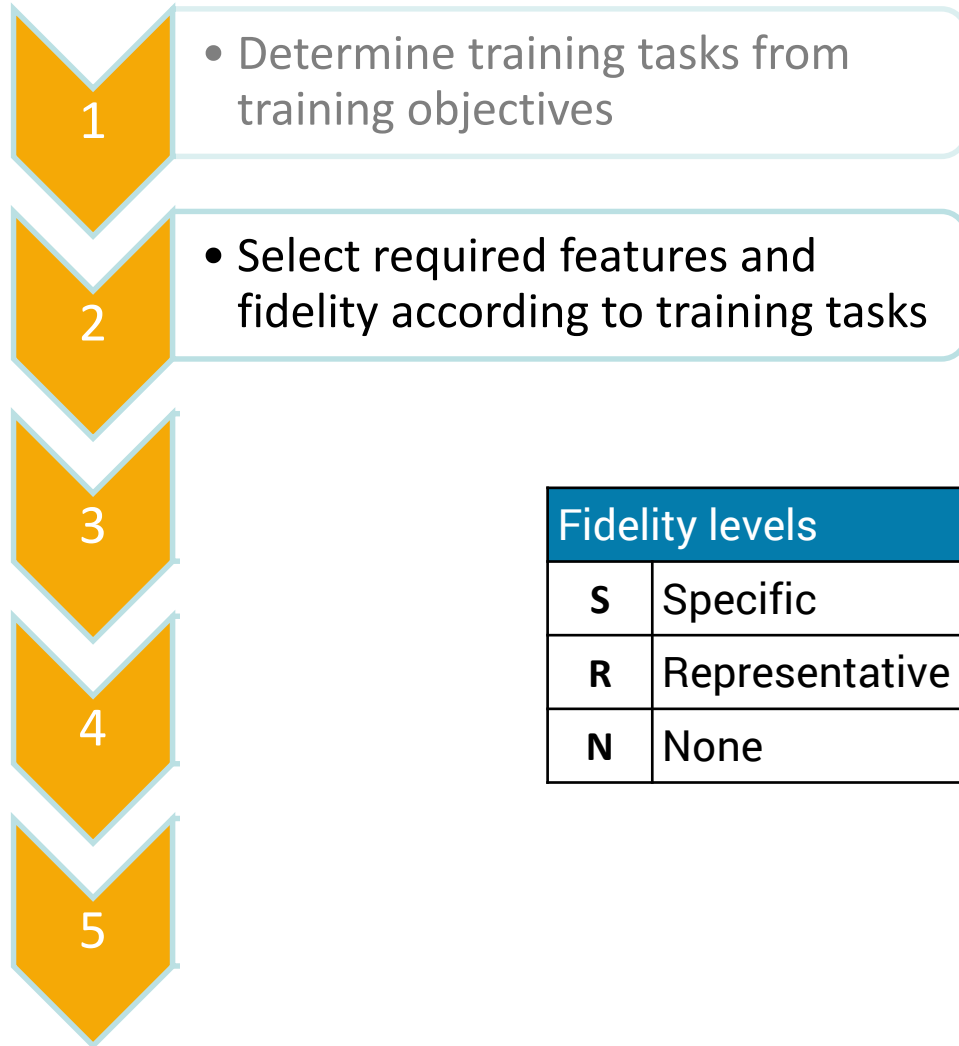
*Perform rejected take-off (RTO)*

*Perform standard instrument departure (SID)*

*Perform 2D approach operation (NPA)*



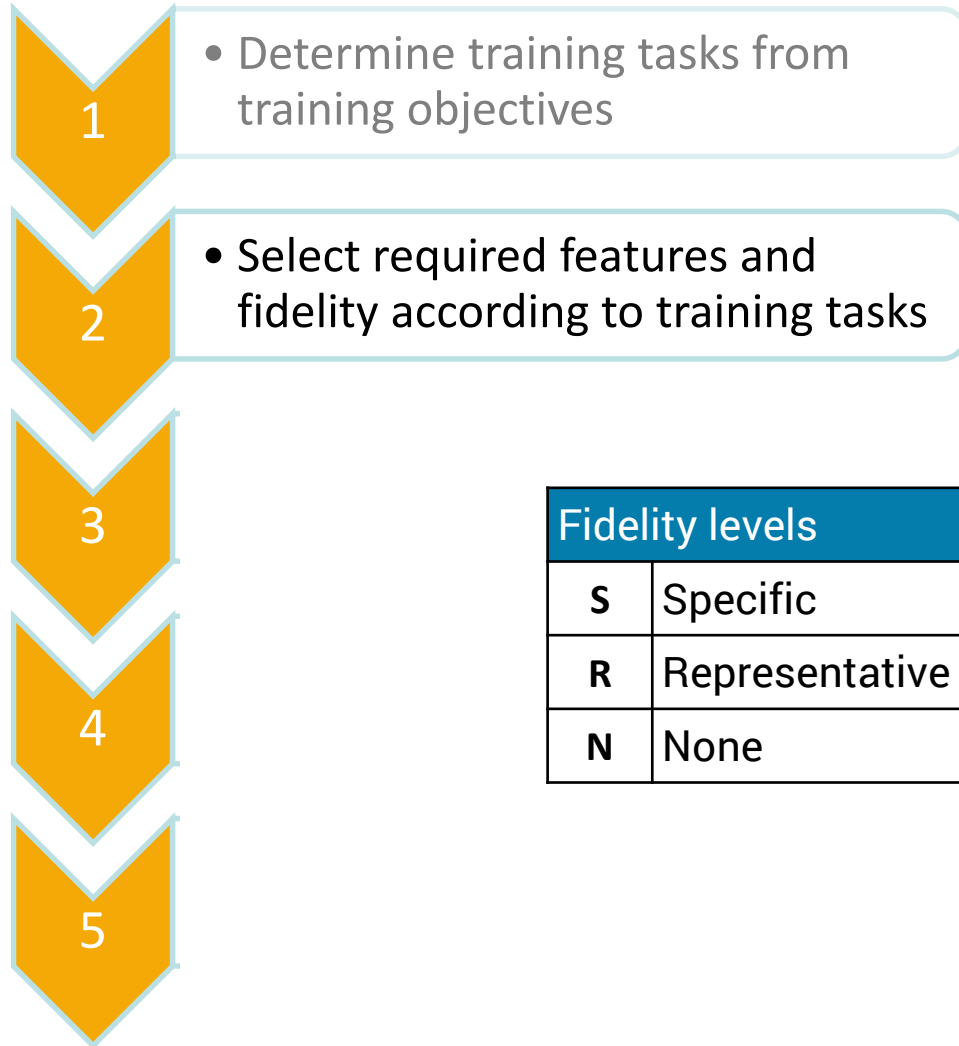
# The methodology



Fidelity levels	
<b>S</b>	Specific
<b>R</b>	Representative
<b>N</b>	None

Feature:				
Cockpit layout and structure				
Flight Model (aero and engine)				
Ground handling				
Aircraft systems				
Flight controls and forces				
Sound cue				
Visual cue				
Motion cue				
Environment - ATC				
Environment - Navigation				
Environment – Weather				
Environment – Aerodromes and terrain				

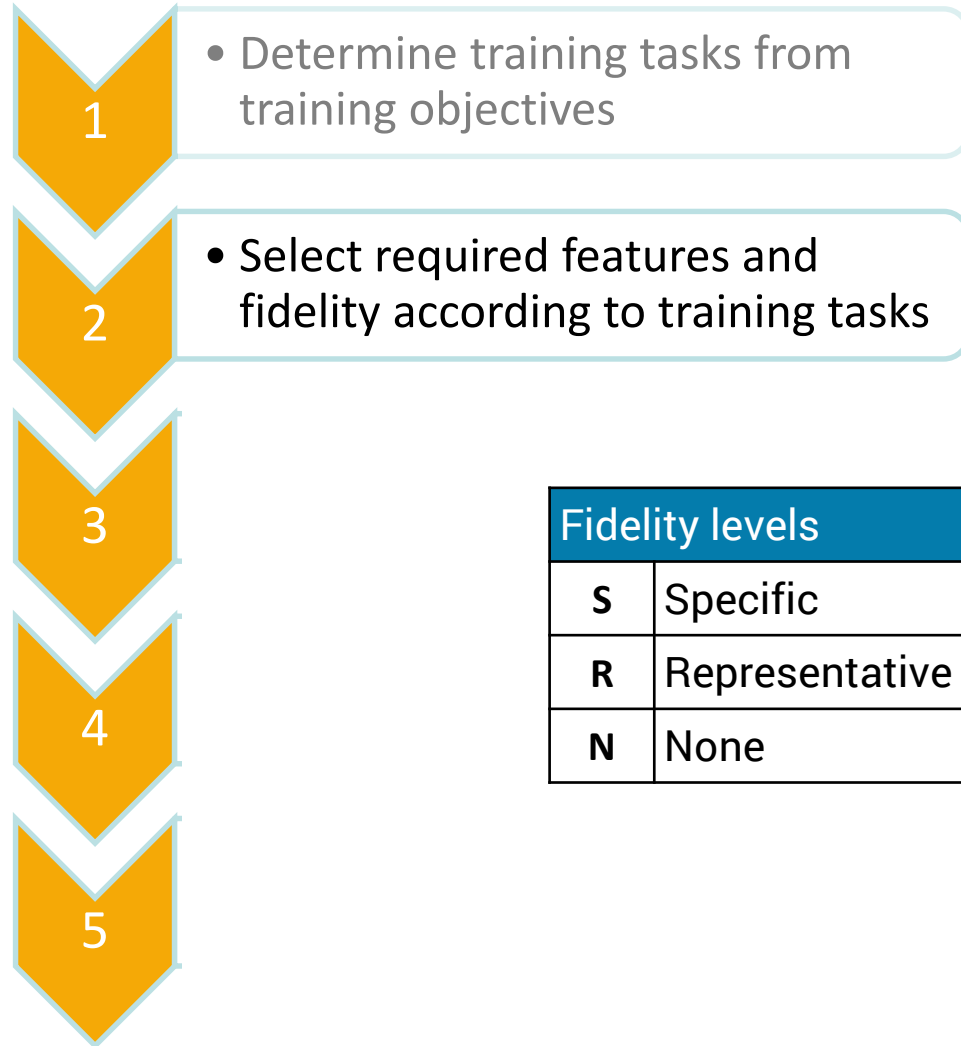
# The methodology



Fidelity levels	
<b>S</b>	Specific
<b>R</b>	Representative
<b>N</b>	None

Feature:	RTO	SID	NPA	[...]
Cockpit layout and structure				
Flight Model (aero and engine)				
Ground handling				
Aircraft systems				
Flight controls and forces				
Sound cue				
Visual cue				
Motion cue				
Environment - ATC				
Environment - Navigation				
Environment – Weather				
Environment – Aerodromes and terrain				

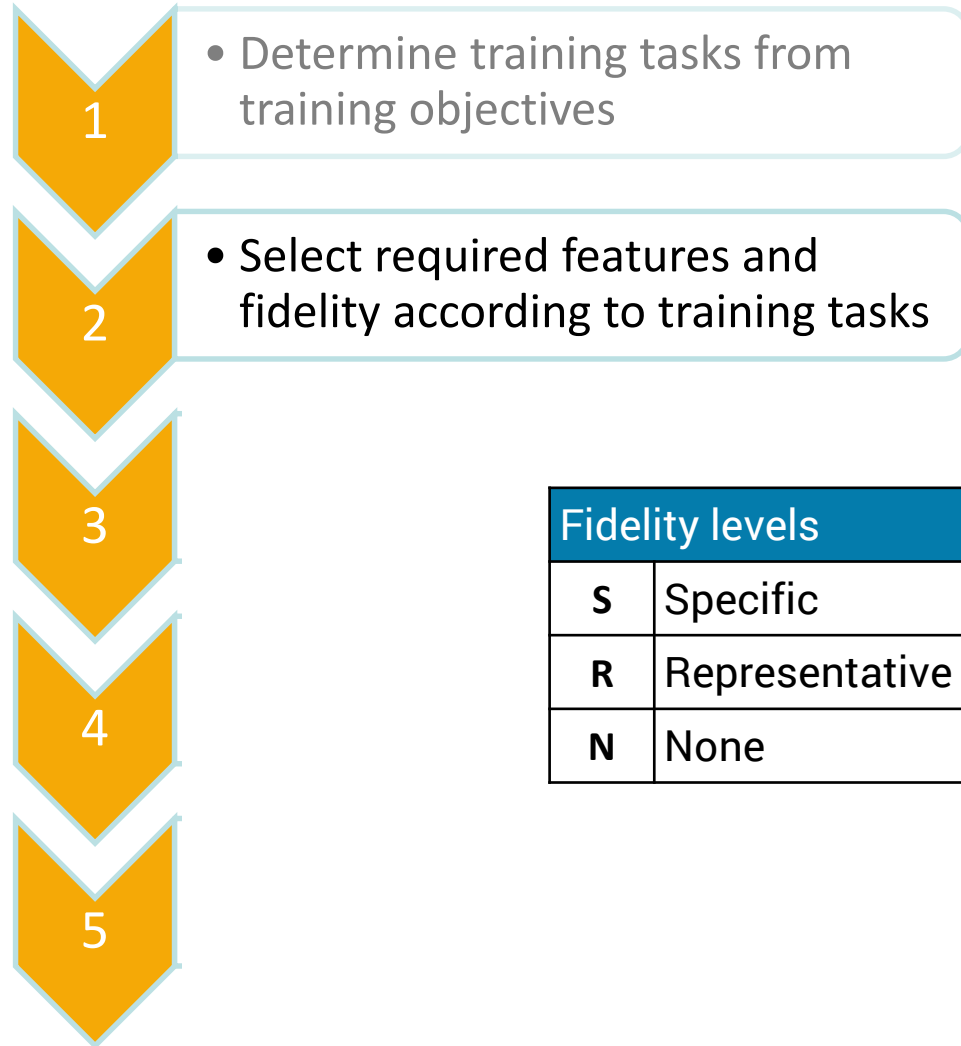
# The methodology



Fidelity levels	
<b>S</b>	Specific
<b>R</b>	Representative
<b>N</b>	None

Feature:	RTO	SID	NPA	[...]
Cockpit layout and structure	<b>S</b>			
Flight Model (aero and engine)	<b>S</b>			
Ground handling	<b>S</b>			
Aircraft systems	<b>S</b>			
Flight controls and forces	<b>S</b>			
Sound cue	<b>R</b>			
Visual cue	<b>R</b>			
Motion cue	<b>N</b>			
Environment - ATC	<b>R</b>			
Environment - Navigation	<b>S</b>			
Environment – Weather	<b>R</b>			
Environment – Aerodromes and terrain	<b>R</b>			

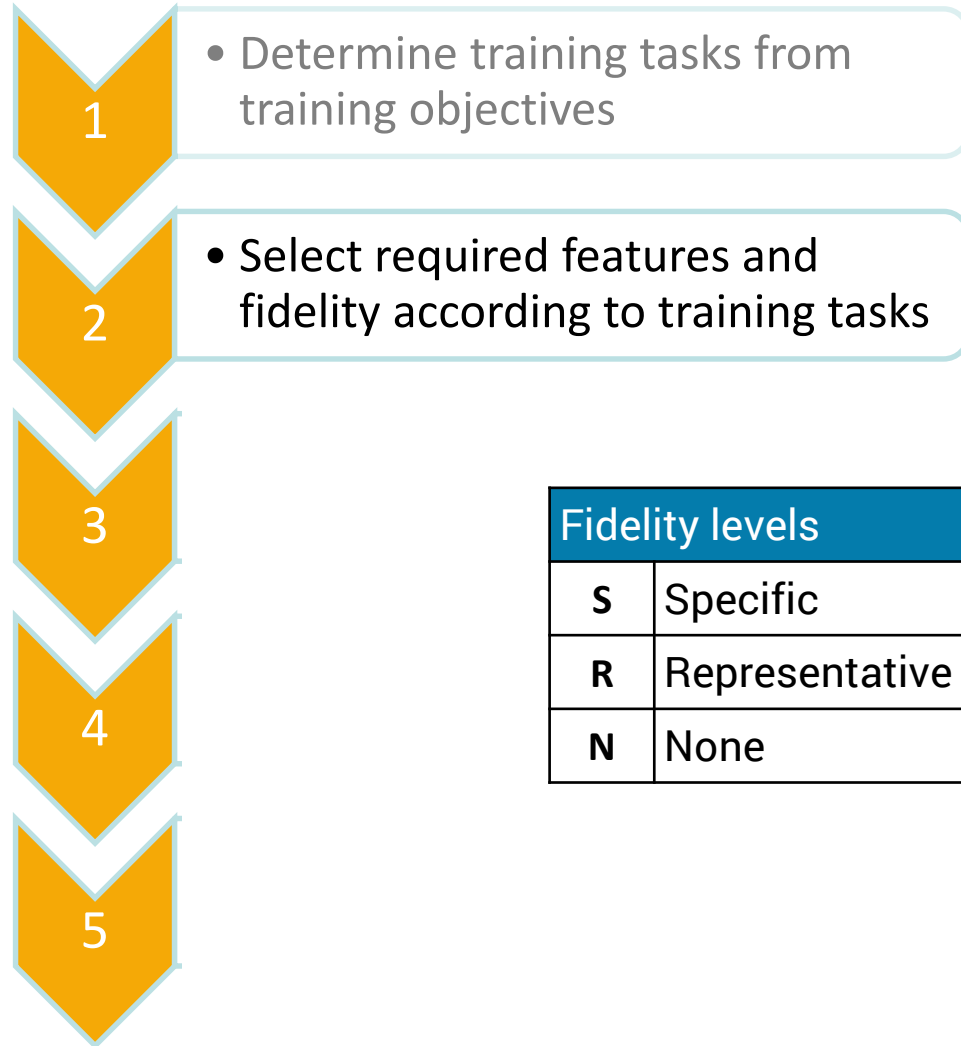
# The methodology



Fidelity levels	
<b>S</b>	Specific
<b>R</b>	Representative
<b>N</b>	None

Feature:	RTO	SID	NPA	[...]
Cockpit layout and structure	S	S		
Flight Model (aero and engine)	S	S		
Ground handling	S	N		
Aircraft systems	S	S		
Flight controls and forces	S	S		
Sound cue	R	R		
Visual cue	R	N		
Motion cue	N	N		
Environment - ATC	R	R		
Environment - Navigation	S	S		
Environment – Weather	R	R		
Environment – Aerodromes and terrain	R	N		

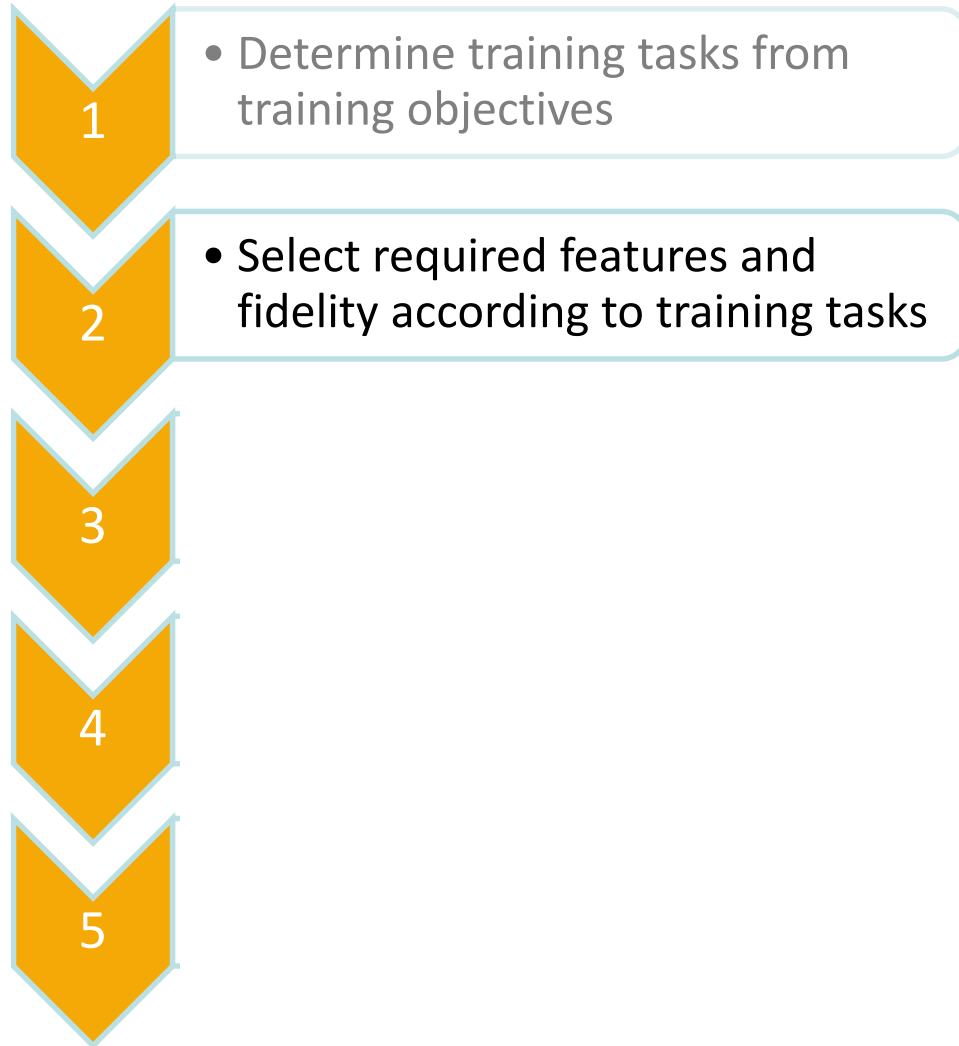
# The methodology



Fidelity levels	
<b>S</b>	Specific
<b>R</b>	Representative
<b>N</b>	None

Feature:	RTO	SID	NPA	[...]
Cockpit layout and structure	S	S	S	
Flight Model (aero and engine)	S	S	S	
Ground handling	S	N	N	
Aircraft systems	S	S	S	
Flight controls and forces	S	S	S	
Sound cue	R	R	R	
Visual cue	R	N	R	
Motion cue	N	N	N	
Environment - ATC	R	R	R	
Environment - Navigation	S	S	S	
Environment – Weather	R	R	R	
Environment – Aerodromes and terrain	R	N	R	

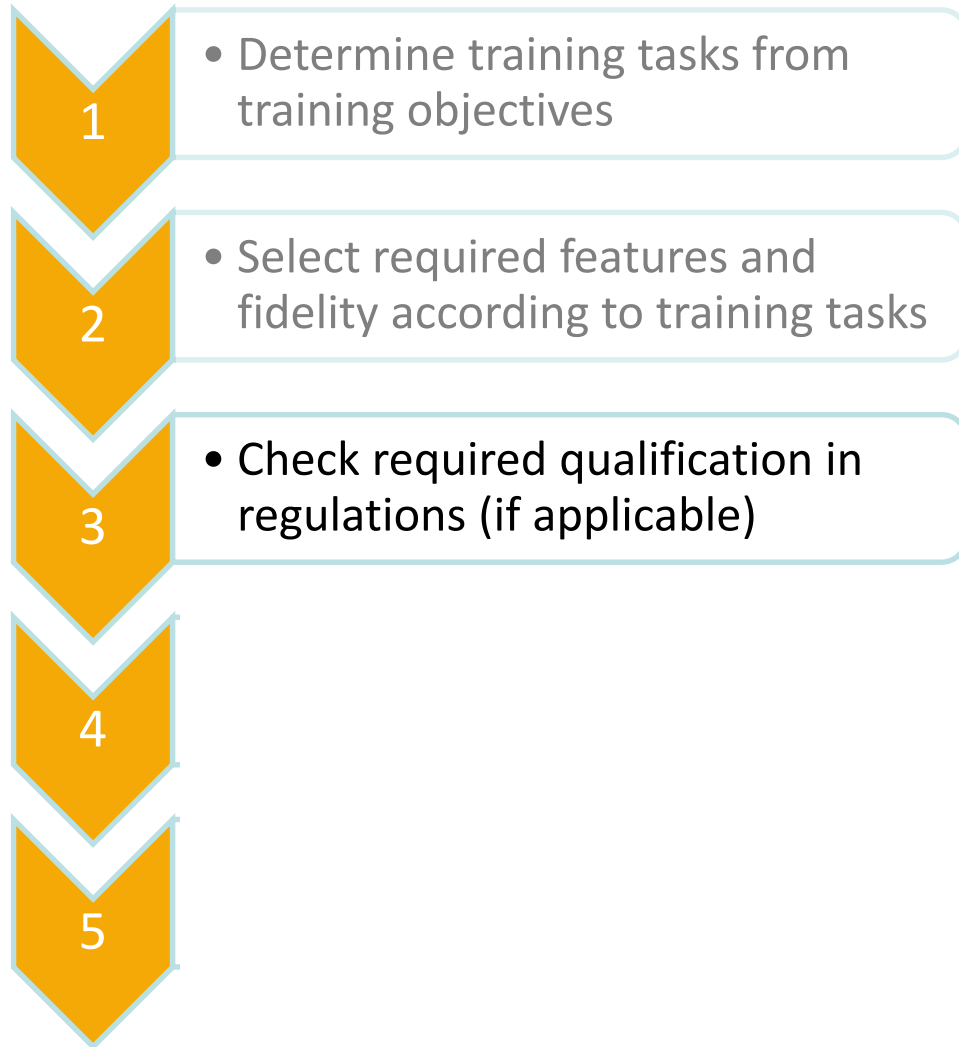
# The methodology



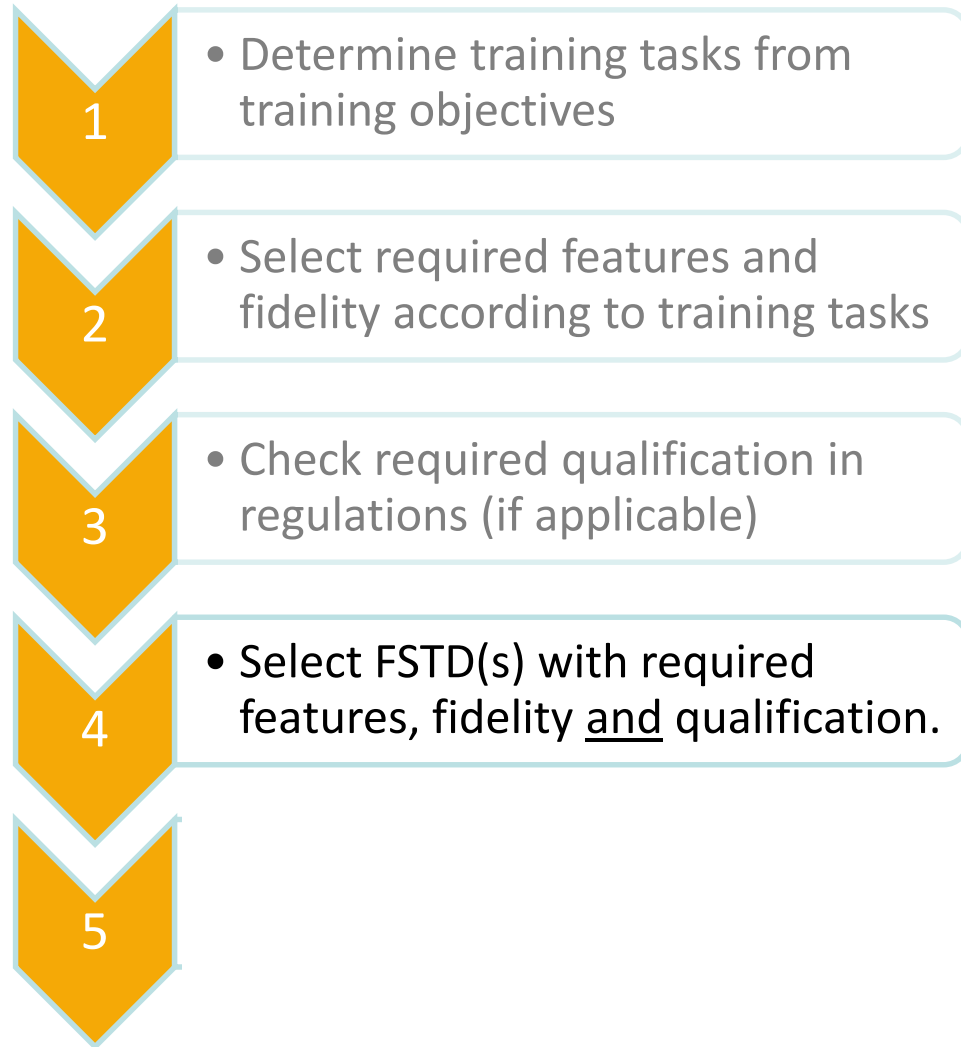
## Overall requirement

Feature:	RTO	SID	NPA	
Cockpit layout and structure	S	S	S	S
Flight Model (aero and engine)	S	S	S	S
Ground handling	S	N	N	S
Aircraft systems	S	S	S	S
Flight controls and forces	S	S	S	S
Sound cue	R	R	R	R
Visual cue	R	N	R	R
Motion cue	N	N	N	N
Environment - ATC	R	R	R	R
Environment - Navigation	S	S	S	S
Environment – Weather	R	R	R	R
Environment – Aerodromes and terrain	R	N	R	R

# The methodology



# The methodology

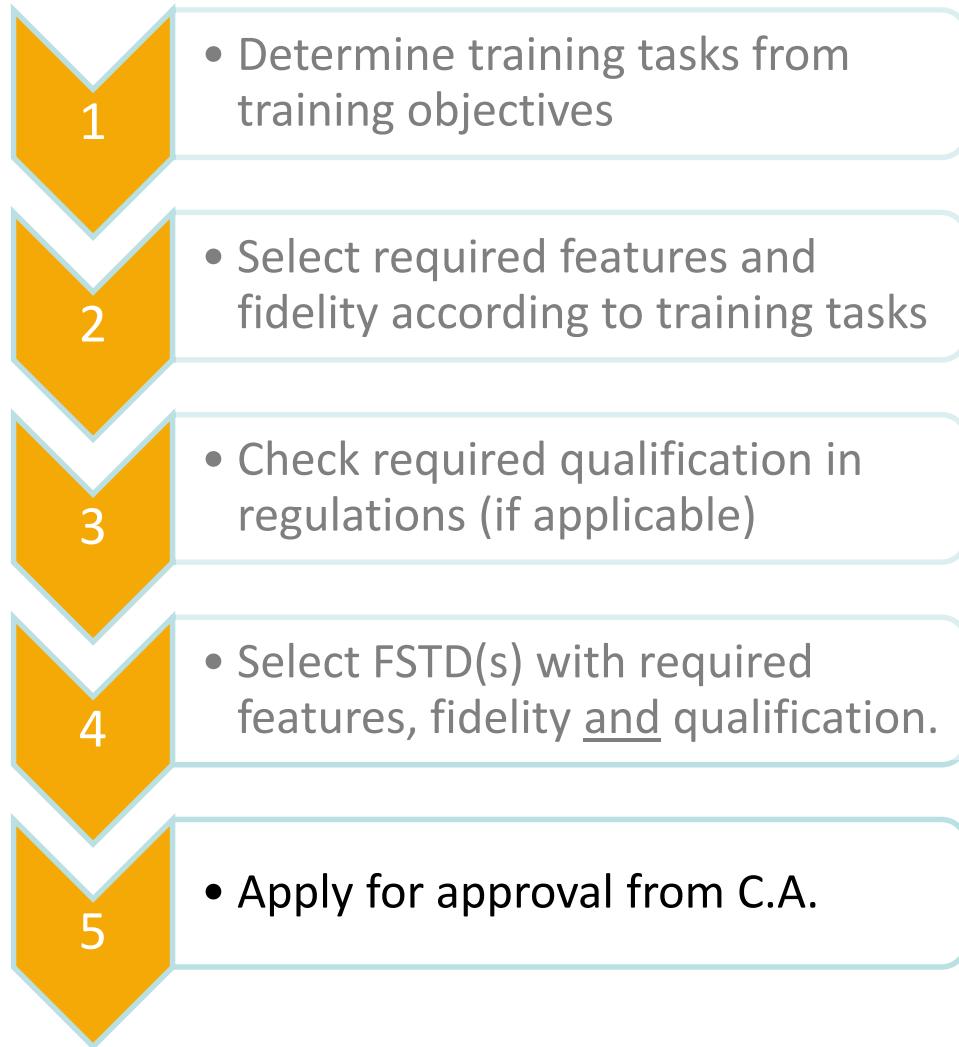


Feature:	RTO	SID	NPA	
Cockpit layout and structure	S	S	S	S
Flight Model (aero and engine)	S	S	S	S
Ground handling	S	N	N	S
Aircraft systems	S	S	S	S
Flight controls and forces	S	S	S	S
Sound cue	R	R	R	R
Visual cue	R	N	R	R
Motion cue	N	N	N	N
Environment - ATC	R	R	R	R
Environment - Navigation	S	S	S	S
Environment – Weather	R	R	R	R
Environment – Aerodromes and terrain	R	N	R	R





# The methodology



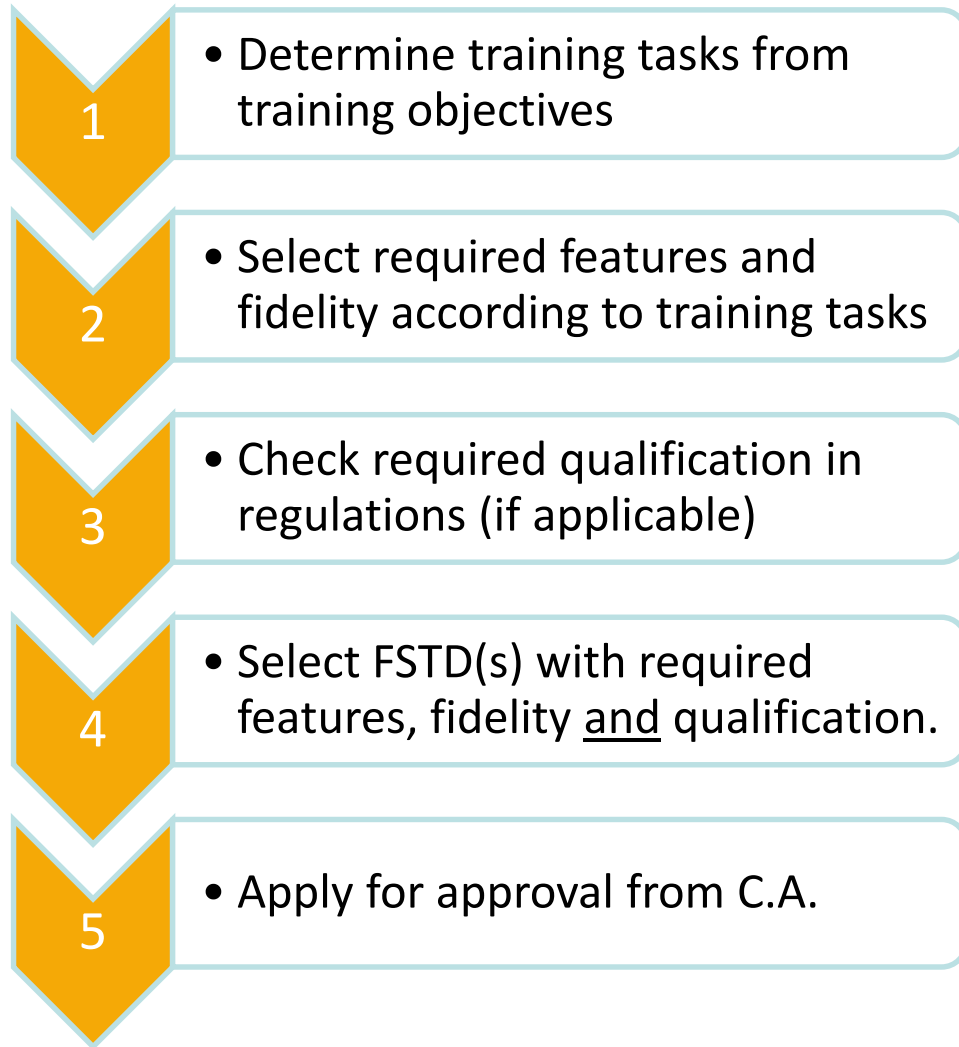
CAT Operator:

ORO.FC.145 (c)

ATO:

AMC1 ORA.ATO.135

# The methodology



**GM1 ORA.ATO.135(b)**

**Training aircraft and FSTDs**

ADEQUACY OF FSTDs

[...]

**GM1 ORO.FC.145**

**Provision of training**

USE OF FSTDs

[...]

# Aeroplane FSTD Training Credits

An Alternative approach

Feature:	RTO	SID	NPA
Cockpit layout and structure	S	S	S
Flight Model (aero and engine)	S	S	S
Ground handling	S	N	S
Aircraft systems	S	S	S
Flight controls and forces	S	S	S
Sound cue	R	R	R
Visual cue	R	N	R
Motion cue	N	N	N
Environment - ATC	R	R	R
Environment - Navigation	S	S	S
Environment - Weather	R	R	R
Environment - Aerodromes and terrain	R	N	R

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# Aeroplane FSTD training credits: An alternative approach

Feature:	RTO	SID	NPA	
Cockpit layout and structure	S	S	S	S
Flight Model (aero and engine)	S	S	S	S
Ground handling	S	N	N	S
Aircraft systems	S	S	S	S
Flight controls and forces	S	S	S	S
Sound cue	R	R	R	R
Visual cue	R	N	R	R
Motion cue	N	N	N	N
Environment - ATC	R	R	R	R
Environment - Navigation	S	S	S	S
Environment – Weather	R	R	R	R
Environment – Aerodromes and terrain	R	N	R	R



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