

# **Grading systematic** at Lufthansa Airlines

2<sup>nd</sup> EASA EBT Webinar - 29<sup>th</sup> September 2021

Frank Steiner Lufthansa Airlines



# **Grading method at Lufthansa Airlines**

Grading metrics acc. AMC1 ORO.FC.231(c)	Implementation at Lufthansa Airlines	
Level 0 ("competent"/"not competent")	Result of a complete module	
Level 1 (numeric grade of the competencies)	5-point grading scale	
Level 2 (observable behaviour metrics)	Marking of OBs with +/o/- ⇒ "how well" & "how often"	

	HOW WELL	HOW OFTEN	HOW MANY	OUTCOME		
5	exemplary	always	all	Enhanced Safety, Effectiveness and Efficiency		
4	effectively	regularly	all	Enhanced safety		
3	adequately	regularly	most	Safe Operation		
2	Minimum acceptable	occasionally	some	Reduction in safety margin or effectiveness		
1	Not effectively	rarely	few	Unsafe Situation = Unacceptable reduction in safety margin		





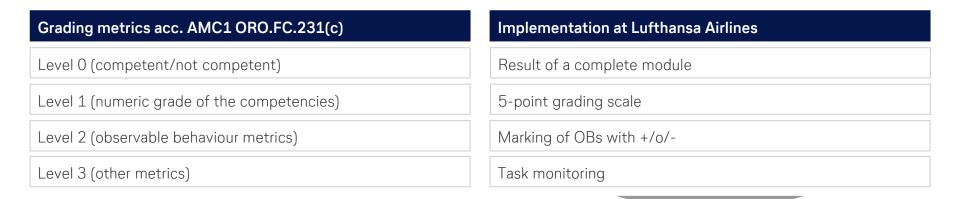


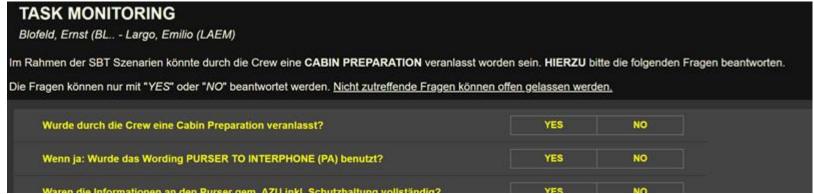


A320 EBT Modul 5 DAY 1 Incomplete					
Overview Task Monitoring Overall Grading Finalise CM1, A320 (A320_CM1) Finalise CM2, A320 (A320_CM2)			+ -		
CM1, A320	O (A320_CM1)	CM2, A320 (A320_CM2)			
CMT ? FPM - Flight Path Management, Manual Control NO 1 2	3 4 5	NO 1 2 3	4 5		
CMT ? FPA - Flight Path Management, Automation NO 1 2	3 4 5	NO 1 2 3	4 5		
CMT ? KNO - Knowledge NO 1 2	3 4 5	NO 1 2 3	4 5		
CMT ? APK - Application of Procedures NO 1 2	3 4 5	NO 1 2 3	4 5		
CMT ? COM - Communication NO 1 2	3 4 5	NO 1 2 3	4 5		
CMT ? LTW - Leadership and Teamwork NO 1 2	3 4 5	NO 1 2 3	4 5		
CMT ? WLM - Workload Management NO 1 2	3 4 5	NO 1 2 3	4 5		
CMT ? SAW - Situation Awareness NO 1 2	3 4 5	NO 1 2 3	4 5		
CMT ? PSD - Problem Solving and Decision Making  NO 1 2	3 4 5	NO 1 2 3	4 5		



# **Grading method at Lufthansa Airlines**







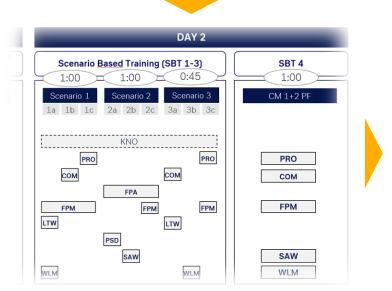
# How grading drives better training

#### Debriefing of first EBT day

#### **Facilitation**

- Reflection performed by crew
- Root cause analysis

Competencies to be trained to improve performance or to strengthen resilience



#### Preparation of second EBT day

- Instructor announces:
  - Focus competency
  - Training topics and highlights
  - Preparation tips



# How grading drives better training

#### **Analysis of gradings**

#### Group analysis (Level 1)

Identification of global trends

#### **OB Analysis (Level 2)**

Analysis of OBs marked with "-"

#### Task Monitoring (Level 3)

Analysis of statements/answers

Competencies to be trained to improve all pilots' or a group's performance

Observable behaviour that might be considered/helpful in scenario design

Training items for:

- scenario design
- human factors training
- ground training
- flight ops department (→ manuals)



## Data usage and protection

#### **De-Identified Data**

- Functional groups can be evaluated
- Trends only available for groups
- Pilot can compare his performance with his group

- Program design
- Management reports (incl. safety department)

#### **Personalised Data**

- Personal history
- Early recognition of individual performance drops
- Interrater-reliability

- Individual coaching
- "System-validation"

Fruitful discussions with union's representatives coping with German und EU data protection laws

- · Data only used for individual (tailored) training and general training development
- No access to any data by disciplinary superiors

