EBT EVIDENCE-BASED TRAINING

EBT – EVIDENCE

data analyses



Decription of Competencies

Ineffective performance which resulted in an unacceptable redustion in safety margin, by rarely demonstrating any of the observable actions when required

Minimum acceptable performance but which did not result in an unsafe situation, by only occasionally demonstrating some of the observable actions when required.

Adequate performance which resulted in a safe situation, by regularly demonstrating most of the observable actions when required. Effective performance which enhanced safety, by regularly demonstrating all of the observable actions when required.

Exemplary performance, which significantly enhanced safety, efficiency and effectiveness by always demonstrating all of the observable actions when required.

APPLICATION OF PROC	EDURES
Identifies and applies procedures in accordance with published operating instructions and applicable regulations, using the appropriate knowledge.	Identifies the source of operating instructions Follows SOP's unless a higher degree of safety dictates an appropriate deviation Identifies and follows all operating instructions in a timely manner Correctly operates aircraft systems and associated equipment Complies with applicable regulations. Applies relevant procedural knowledge
COMMUNICATION	
Demonstrates effective oral, non-verbal and written communications, in normal and non-normal situations.	Ensures the recipient is ready and able to receive the information Know what, when, how and with whom to communicate Pass messages clearly, accurately and concisely Confirms that the recipient correctly understands important information Listens actively and demonstrates understanding when receiving information Asks relevant and effective questions Adheres to standard radiotelephone phraseology and procedures Accurately reads and interprets required company and flight documentation Correctly interprets non-verbal communication Uses eye contact, body movement and gestures that are consistent with and support verbal messages Are receptive to other people's views and willing to compromise
AIRCRAFT FLIGHT PAT Controls the aircraft flight path through automation, including appropriate use of flight management system(s) and guidance.	H MANAGEMENT, AUTOMATION Controls the aircraft using automation with accuracy and smoothness as appropriate to the situation Detects deviations from the desired aircraft trajectory and takes appropriate action Contains the aircraft within the normal flight envelope Manages the flight path to achieve optimum operational performance Maintains the desired flight path during flight using automation whilst managing other tasks and distractions Selects appropriate level and mode of automation in a timely manner considering phase of flight and workload Effectively monitors automation, including engagement and automatio mode transitions
AIRCRAFT FLIGHT PAT	H MANAGEMENT, MANUAL CONTROL
Controls the aircraft flight path through manual flight, including appropriate use of flight management system(s) and flight guidance systems.	Controls the aircraft manually with accuracy and smoothness as appropriate to the situation Detects deviations from the desired aircraft trajectory and takes appropriate action Contains the aircraft within the normal flight envelope Controls the aircraft safely using only the relationship between aircraft attitude, speed and thrust Manages the flight path to achieve optimum operational performance Maintains the desired flight path during manual flight whilst managing other tasks and distractions Selects aportopriate level and mode of flight guidance systems in a timely manner considering phase of flight and workload Effectively monitors flight guidance systems including engagement and automatic mode transitions
Facts, information, and skills acquired through experience or education; the theoretical and practical understanding of a subject.	Demonstrates Practical and applicable knowledge of limitations and systems and their interaction Demonstrates required knowledge of published operating instructions Demonstrates knowledge of physical environment, air traffic environment including routings, weather, airports and operational infrastructure Demonstrates appropriate knowledge of applicable legislation. Knows where to source required information Demonstrates a positive interest in acquiring knowledge Is able to apply knowledge effectively

Decription of Competencies

LEADERSHIP AND TEAMWORK Understands and agrees with the crew's roles and objectives. Creates an atmosphere of open communication and encourages team participation Uses initiative and gives directions when required Admits mistakes and takes responsibility Anticipates and responds appropriately to other crew members' needs Carries out instructions when directed Communicates relevant concerns and intentions	
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Demonstrates effective Anticipates and responds appropriately to other crew members" needs Carries out instructions when directed	
Demonstrates effective Carries out instructions when directed	
Leadership and team Communicates relevant concerns and intentions	
working. Gives and receives feedback constructively	
Confidently intervenes when important for safety	
Demonstrates empathy and shows respect and tolerance for other people.	
Engages others in planning and allocates activities fairly and appropriately according to abilities	
Addresses and resolves conflicts and disagreements in a constructive manner	
Projects self-control in all situations	
PROBLEM SOLVING AND DECISION MAKING	1
Seeks accurate and adequate information from appropriate sources	
Identifies and verifies what and why things have gone wrong	
Employ(e) proper problem achieve etrateries	
Accurately identifies risks	
and resolves problems. Uses appropriate and timely decision-making processes	
Uses the appropriate Sets priorities appropriately	
decision-making Identifies and considers options effectively	
identifies and considers options effectively	
Monitors, reviews, and adapts decisions as required Identifies and manages risks effectively	
Improvises when faced with unforeseeable circumstances to achieve the safest outcome	
improvises when faced with unforeseeable circumstances to achieve the safest outcome	
SITUATION AWARENESS	
I Identifies and assesses accurately the state of the aircraft and its systems	
Identifies and assesses accurately the aircraft's vertical and lateral position, and its anticipated flight	et math
Perceives and Identifies and assesses accurately the general environment as it may affect the operation	it paul.
comprehends all of the Keeps track of time and fuel Keeps track of time and fuel	
The state of the s	rform as
relevant information Maintains awareness of the people involved in or affected by the operation and their capacity to pe	
available and anticipates expected	
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Norm vs. Criterion based

EBT Working group





KYU Grade Promotion Syllabus

5TH **K**YU – **4**TH **K**YU

FUNDAMENTAL SKILLS

Tachi-waza:

- Tsuri-komi-goshi
- O-goshi
- Seoi-otoshi
- Morote-seoi-nage
- O-soto-gari

PERFORMANCE SKILLS

Combination Techniques:

- · O-uchi-gari into Ko-uchi-gari
- · Ko-uchi-gari into O-soto-gari or O-soto-
- · Ko-uchi-gari into Morote-seoi-nage
- · Ippon-seoi-nage into Ko-uchi-gari

Counter Techniques:

O-uchi-gari countered by Tsuri-komi
 Tai-otoshi countered by Ko-soto-gari or

- goshi
- Ne-waza:
- escape
 - from Kesa-gatame using 'bridge and roll'
 - into Kesa-gatame from between Uke's legs'
 - into Yoko-shiho-gatame from between Uke's legs

- Ko-uchi-gari
- Ko-soto-gake
- Ko-soto-gari

- · any technique as combinations with
 - Seoi-otoshi
 - Ko-uchi-gari

- arm roll
 - from behind Uke
- from in front of Uke
- turn over from underneath Uke into Tate-s gatame







Doc 9868

PROCEDURES FOR AIR NAVIGATION SERVICES

Training

Second Edition 2014



EASA European Union Aviation Safety Agency



Doc 9995 AN/497



anual of vidence-based Training

ad published under his authority

Edition — 201 s

sational Civil Aviation Organization

Eviden

Air Operatior (IR + AMC/GM & CS/G

eRu

Easy Access Rules for Air Operations (Regulation (EU) No 965/2012)

ANNEX III (Part-ORO)

SUBPART FC: FLIGHT CREW

GM1 ORO.FC.230(a);(b);(f) Recurrent training and checking

ED Decision 2015/027/R

EVIDENCE-BASED RECURRENT TRAINING AND CHECKING OF FLIGHT CREW CONDUCTED IN FLIGHT SIMULATION TRAINING DEVICES (FSTDS)

ICAO developed Doc 9995 'Manual of Evidence-based Training', which is intended to provide guidance to civil aviation authorities, operators and approved training organisations in the recurrent assessment and training of pilots by establishing a new methodology for the development and conduct of a recurrent training and assessment programme, titled evidence-based training (EBT).

'Evidence-based training (EBT)' means training and assessment based on operational data that is characterised by developing and assessing the overall capability of a trainee across a range of core competencies rather than by measuring the performance during individual events or manoeuvres.

ICAO Doc 9995 is the reference document for operators seeking to implement EBT. The purpose of this guidance material (GM) is to enable the implementation of EBT according to the principles established in ICAO Doc 9995 taking into account the European regulatory framework.

In the current regulatory framework it is possible to achieve a mixed implementation of EBT. Implementation of a mixed EBT programme means that some portion of the recurrent assessment and training is dedicated to the application of EBT. This includes the Licence Proficiency Check (LPC) and the Operator Proficiency Check (OPC).

EBT Training Phases

DAY 1

DAY 2

Evaluation Phase

Manoeuvres Validation Phase Scenario-based Training

Objective

Assess competence. Identify training needs

Train manoeuvre skills to proficiency, to a prescribed outcome

e.g. "V1 cut", single

Develop resilience, learning by exposure

Conduct

Line Orientated Evaluation

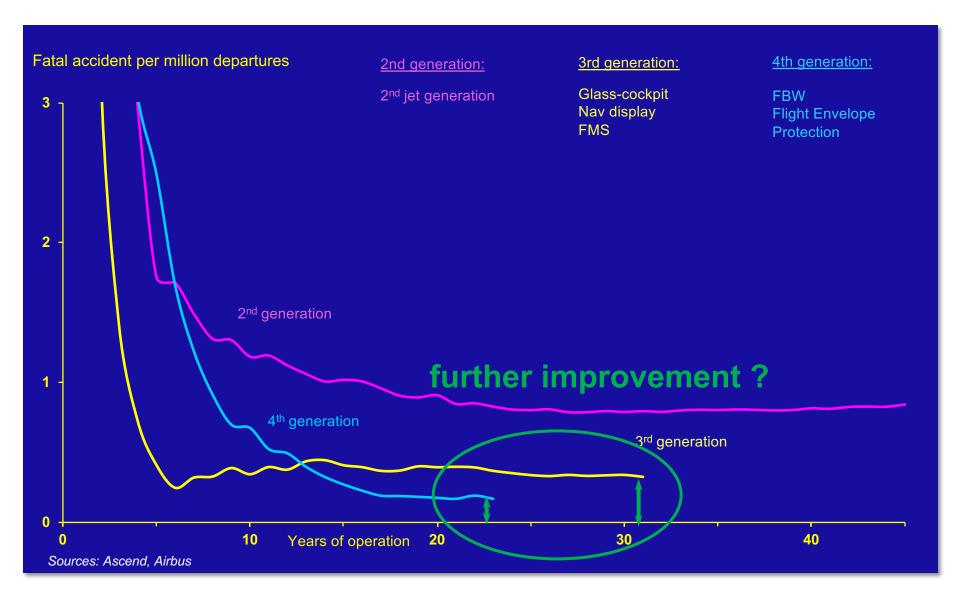


Line-orientated Training +

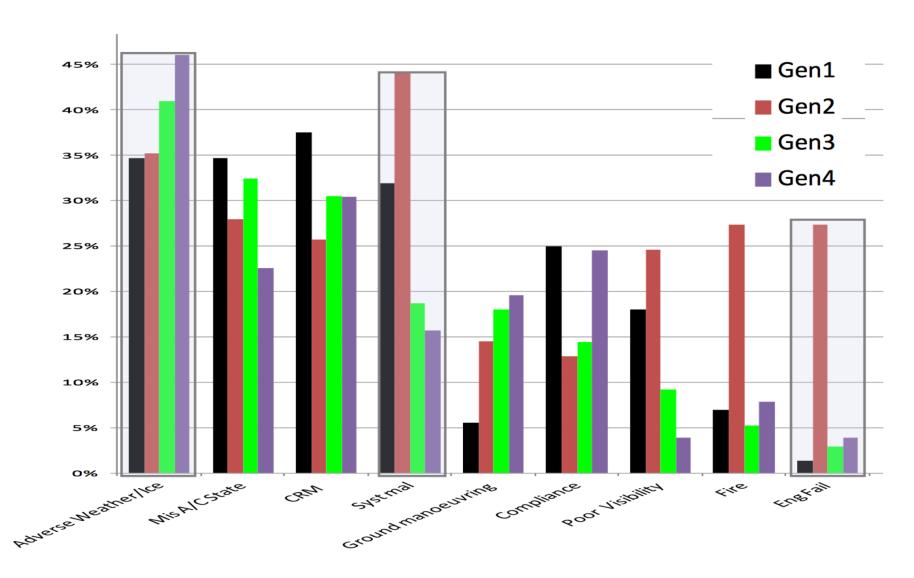


Generation 4 — Jet)	From 1988. EFIS cockpit — FMS equipped FADEC Fly-by-wire control systems Advanced flight envelope protection Integrated auto flight control system — navigation performance, and terrain avoidance systems Generation fatal accident average rate: 0,1/million flights	A318/A319/A320/A321 (including neo), A330, A340-200/300, A340- 500/600, B777, A380, B787, A350, Bombardier C Series (A220), Embraer E170/E175/E190/E195
Generation 3 — Jet	From 1969 EFIS cockpit — FMS equipped FADEC Integrated auto flight control system — navigation performance, and terrain avoidance systems Basic flight envelope protection — stick shaker/pusher Generation fatal accident average rate: 0,2/million flights	A310/A300-600, B737- 300/400/500, B737-600/700/800 (NG), B737 MAX, B757, B767, B747-400, B747-8, B717, BAE 146, MD11, MD80, MD90, F70, F100, Bombardier CRJ Series, Embraer ERJ 135/145
	From 1992 EFIS cockpit — FMS equipped EEC/ECU or higher engine control Integrated auto flight control system — navigation performance and terrain avoidance systems Basic flight envelope protection — stick shaker/pusher	ATR 42-600, ATR 72-600, Bombardier Dash 8-400, BAE ATP, Saab 2000
Generation 2 — Jet	From 1964. Integrated auto-flight system. EEC/ECU or higher engine control Analogue/CRT instrument display Basic flight envelope protection — stick shaker/pusher Generation fatal accident average rate: 0,7/million flights	A300 (except A300-600), BAC111, B727, B737-100/200, B747- 100/200/300, DC9, DC10, F28, L1011
Generation 2 — Turboprop	From 1964 Analogue/CRT instrument display EEC/ECU Basic flight envelope protection — stick shaker/pusher Integrated auto flight control system	ATR 42, ATR 72 (all series except - 600), BAE J-41, Fokker F27/50, Bombardier Dash 7 and Dash 8-100/200/300 Series, Convair 580-600 Series, Shorts 330 and 360, Saab 340, Embraer 120
Generation 1 — Jet	From 1952 First commercial jets. Manual engine control Analogue instrument display Not integrated auto flight control system	DC8, B707

Comparison by aircraft generation



% of accidents & incidents with each factor



Training topics

Gen4 Jet

C: At least ones in the 3-year cycle B: Every alternate EBT Modul A: Every EBT Modul Adverse weather Adverse wind ATC Automation management Aircraft system malfunction Engine failure Fire and smoke management Competencies non-technical (CRM) Aircraft System management Gen4 Jet Training Topics Approach, visibility close to minimum Loss of communications Compliance Error management Managing loading, fuel, performance errors Landing Go-Around management Runway or taxiway condition Navigation Manual aircraft control Surprise Operations or type specific Mismanaged aircraft state Pilot incapcitation Terrain Monitoring & cross-checking Workload, distraction, pressure Traffic Unstable approach Upset recovery Windshear recovery

EBT Baseline Programme ICAO Doc 9995

ICAO Doc 9995

Recurrent Assessment and Training Matrix

A	ssessment and training topic	Frequency	Flight phase for activation	Description (include type of topic, being threat, error or focus) Generation 4 Jet —	Desired outcome (includes performance criteria OR training outcome) Recurrent Assessment and Training	Example scenario elements	Application of procedures	Ш	Elight path management, automation			Situation awareness	Workload management							
			TO	0		Take-off with different crosswind/tailwind/gust conditions				\top	x		X							
		\vdash	ТО			Take-off with unreported tailwind		x		X										
hases			ТО			Crosswinds with or without strong gusts on take-off	\bigcirc)												
lng pl			APP			Increasing tailwind on final (not reported)	X	X			X	X								
			APP	Adverse wind/crosswind. This includes		Approach and landing in demanding weather conditions, e.g. turbulence up and downdrafts, gusts and crosswind including shifting wind directions	3		x	ı	x	x								
enar		APP actual wind Ma		В	В	В	В	D	В	APP	tailwind but not ATC mis-reporting of the actual wind	Apply appropriate procedures Maintain directional control and safe flight path	Adverse wind scenario resulting in increasing tailwind below DA (not reported)		x	х		x		
Evaluation and so			APP			Adverse wind scenario including strong gusts and/or crosswind out of limits below DA (not reported)		x	х		x									
Evalua				Adverse wind scenario including strong gusts and/or crosswind out of limits below 15 m (50 ft) (not reported)		x	х		x											
			APP LDG			Crosswind with or without strong gusts on approach, final and landing (within and beyond limits)	x		х		x									

EQUIVALENCY OF MALFUNCTION / MALFUNCTION CLUSTERING

Malfunction characteristics	TYPE	IMMEDIACY	COMPLEXITY	DEGRADATION OF AIRCRAFT CONTROL	LOSS OF INSTRUMENTATION	MANAGEMENT OF CONSEQUENCES	EBT
CTL SLATS AND FLAPS FAULT IN CONF 0	MC	2	3	3	-	3	Υ
CTL SLATS AND FLAPS LOCKED IN CONF 0	MC	2	3	3	-	2	Υ
CTL SPD BRK FAULT	MC	-	-	-	-	-	N
CTL SPLR FAULT	MC	-	1	-	-	-	Υ
CTL STABILIZER JAM	MC	2	-	3	-	3	Υ
ORCED LANDING	QRH	3	4	-	-	4	Υ
UEL CTR TK PUMP 1(2) LO PR	MC	-	-	-	-	-	N
UEL CTR TK PUMPS LO PR	MC	-	-	-	-	2	Υ
UEL FQI CH 1(2) FAULT	MC	-	-	-	-	-	N
UEL IMBALANCE	QRH	2	-	-	-	-	Υ
UEL L (R) OUTER (INNER) TK HI TEMP	МС	-	-	-	-	-	N
UEL L (R) OUTER (INNER) TK LO TEMP	MC	-	-	-	-	-	N
UEL L (R) TK PUMP 1 + 2 LO PR	MC	-	2	-	-	2	Υ
UEL L (R) TK PUMP 1 + 2 LO PR (Center Tank Empty)	МС	-	2	-	-	2	Υ
FUEL L (R) TK PUMP 1 + 2 LO PR (Center Tank not Empty)	MC	-	2	-	-	2	Υ
FUEL L (R) TK PUMP 1(2) LO PR	мс	-	-	-	-	-	N
UEL LEAK	QRH	2	3	_	_	3	Y
UEL X FEED VALVE FAULT	MC	-	-	-	-	-	N
WS FWC 1 + 2 FAULT	MC	2	_	-	_	_	Y
WS FWC 1(2) FAULT	MC	-	-	-	-	-	N
FWS SDAC 1 + 2 FAULT	MC	2	-	_	-	-	Y
FWS SDAC 1(2) FAULT	MC	-	-	-	-	-	N
G/S DRIFT BEAM (AUTOLAND)		3	-	-	-	-	Y
GPS PRIMARY LOST		-	-	-	-	-	N
SPWS ALERTS	MW	5	-	-	-	-	Y
HYD B RSVR LO LVL	MC	-	-	-	-	-	N
HYD B RSVR OVHT	MC	-	_	-	_	_	N
HYD B+Y SYS LO PR	MW	4	5	4	-	5	Y
HYD G ENG 1 PUMP LO PR (PTU Inoperative)	MC		2	2	_	2	Ý
IYD G ENG 1 PUMP LO PR (PTU Operative)	MC	-	-	-	-	-	N
IVD G RSVR LO LVI		_	2	2	_	2	Y
HYD G RSVR OVHT		_	2	2	_	2	Y
HYD G+B SYS LO PR	MW	4	5	5	-	5	Y
HYD G+Y SYS LO PR	MW	4	5	5	-	5	· Y

Core competencies

Application of Procedures (APK) Communication (COM) Flight path management automation (FPA) Flight path management manual (FPM) Knowledge* (KNO) Leadership & teamwork (LTW) Problem solving & decision-making (PSI Situation awareness (SAW) Workload management (WLM)

CBTA - GRADING

Word pictures describe the various steps of the five level grading scale.

- •They are a direct function of the underlying "Performance Indicator".
- •Every Word picture is thus constructed, according to the *VENN m*ethodology of grading, combining the four elements (A, B, C, D) where:

A = HOW WELL (e.g. Ineffective performance...)

B = HOW OFTEN (e.g. ...by rarely demonstrating...)

C = HOW MANY (e.g. ... any of the performance indicators when required...)

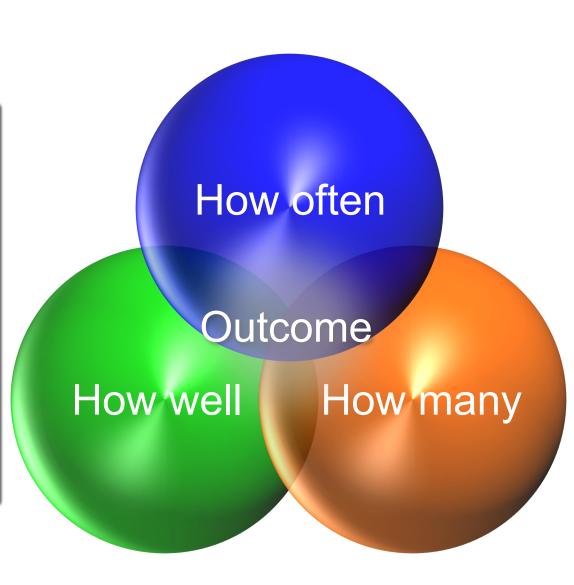
D = OUTCOME (e.g. ... which resulted in an unacceptable performance...)

WORD PICTURES

1	2	3	4	5
Ineffective performance which resulted in an unacceptable redustion in safety margin, by rarely demonstrating any of the observable actions when required	Minimum acceptable performance but which did not result in an unsafe situation, by only occasionally demonstrating some of the observable actions when required.	Adequate performance which resulted in a safe situation, by regularly demonstrating most of the observable actions when required.	Effective performance which enhanced safety, by regularly demonstrating all of the observable actions when required.	Exemplary performance, which significantly enhanced safety, efficiency and effectiveness by always demonstrating all of the observable actions when required.

VENN methodology

The pilot managed the workload in an exemplary manner, by always demonstrating all of the performance indicators when required, which significantly enhanced safety effectiveness and efficiency



CBTA exercise

IRR Inter-rater reliability/ concordance

Flight: MUC - MAD - MUC

Takeoff from MAD

Returning to home base (MUC)

Weather: CAVOK

Notams: NO

Tech log: NO entries

T/O weight: MAX LDG WEIGHT

CBTA exercise

IRR Interrater reliability/ concordance

Communication:

- Knows what, how, where, when, how much and with whom he or she needs to communicate
- Ensures the recipient is ready and able to receive the information
- Conveys messages and information clearly, accurately, timely and adequately
- Confirms that the recipient correctly understands important information
- Listens actively, patiently and demons
- Asks relevant and effective questions,
- Uses appropriate body language, eye others
- Is receptive to other peoples views an

Problem Solving & Decision-makir

- Identifies and verifies why things hav assumptions
- Seeks accurate and adequate inform
- Perseveres in working through a problem
- Uses appropriate, agreed and timely decision-making processes
- Applies essential and desirable criteria and prioritizes
- Considers as many options as practicable
- Makes decisions when needed, reviews and changes them if required
- Considers risks but does not take unnecessary risks
- Improvises appropriately when faced with unforeseen circumstances to achieve the safest outcome

ORCA -observation Tool

on of

ed

- OBSERVE
- RECORD
- CLASSIFY
- ASSESS / EVALUATE

Adult Learning Andragogy

Wed

8548

✓ Selv kontrol: voksne har undervisningen i modsa

skal have mulighed for

ære en del af ndervisning. Voksne n indlæring

✓ Tidligere erfaring: mellem tidligere erf viden til gammel erf se sammenhæng e relatere ny

✓ Meningsfuld viden: VI med læring; at den er b kan se meningen

✓ Motivation: Motivering til ind re ekstern (bedre job, løn, karriere), men i højere grad internt ønske om større jobtilfredshed, bedre selvværd etc.

FACILITATION TECHNIQUE

Ethvert job kræves en mængde viden/knowledge, et niveau af færdigheder/skills og et sæt af holdninger/attitudes. Dette gælder for læger, fodboldspillere, soldater, advokater og selvfølgelig piloter.

Den formelle træning lægger oftest vægt på at udvikle Knowledge og Skills, idet kompetence-vurderingen næsten udelukkende vedrører måling mod et sæt faste standarder.

Facilitering giver eleven mulighed for <u>selv</u> at opdage, hvad de laver, og hvilken effekt det har på andre og på opgaven, så de selv kan tage beslutning om at ændre adfærd.

Faciliserings-teknikken er mere effektiv end visnings- og fortællingsteknikken, idet elevens involvering og oplevelser er en del af læringsprocessen.

Instruktørens rolle er derfor, ved hjælp af facilitering, at udvikle elevens Knowledge, Skills og Attitudes ved at give større selv indsigt og selv-analyse.

Teknikken er ikke kun for den dårlige performance, men bruges også til at <u>styrke effektiv</u> <u>adfærd</u>, idet den giver eleverne en forståelse af, hvorfor de er gode, hvilket yderligere tilskynder til deres fortsatte udvikling.

	Instruktions teknik	Facilitation teknik
Hvad betyder ordene instruktion/facilitering?	Vise, fortælle	At finde svaret selv
Hvad er målet?	Overføre viden og udvikle færdigheder	At ændre adfærd ved hjælp af selvindsigt
Hvem kender indholdet/topic?	Instruktøren	Både elev og instruktør
Hvem har erfaringen/videnen?	Instruktøren	Både instruktøren og eleven
Hvem sætter agendaen?	Instruktøren	Både instruktøren og eleven
Hvem taler mest?	Instruktøren	Eleven
Hvor er fokus mest?	Instruktør - topic	Elev-performance og udvikling
Hvordan er progress evalueret?	Ved observation	Guidet selv-evaluering
Hvordan er arbejds intensiteten?	Lavt	Højt

QUESTIONING

TYPE	EXAMPLE	PURPOSE
OPEN	How can you improve?	Start discussion
CLOSED	Did you know your height	Control/check
DIRECT	What is your age?	Get information
PROBING	Why? Or explain to me?	Starts learning
SUMMARIZING	How will you use this?	Check understanding
LEADING	Did you ever considered to?	Nil
MULTIBLE	When, how and why did you?	Nil

Facilitation and CBTA Grading exercise

Scenario:

A revenue flight with cabin crew from Tronheim(ENVA/TRD) to Oslo (ENGM/OSL) with call Sign "AIRWING 727".

Scenario begins in ENVA with cockpit preparation completed at the gate.

There are no NOTAMS and the aircraft Status is normal without outstanding MEL's.

Weather: 240/12 4000 -RA SCT011 OVC020 12/05 1010 Nosig

The F/O will operate this sector as PF.

During T/O run:

- TANK FUEL LEAK L INNER
- Engine 1 failure at V1

Eng failure procedure: NON-STD: Join NEGIM HP. Inbound 087 LEFT turn



RMT.0599
'Evidence-based and competency-based training.'
SPT.012

'Promote the new European provisions on pilot training'

Oversight guidance for the transition to EBT Mixed Implementation

According to:

GM1 ORO.FC.230 (a); (b); (f) Recurrent training and checking GM2 ORO.FC.A.245, ATQP

Future EBT

