



Aircraft Manufacturers Flight Training Association: AMFTA

AIRBUS

 **BOEING**


COMAC

 **EMBRAER**

AMFTA President - Capt Jean-Michel Bigarré
EATS - Portugal, 7 - 9 November 2023

AMFTA

“As Aircraft Manufacturers, our primary goal is flight efficiency and safety”

AIRBUS

 **BOEING**

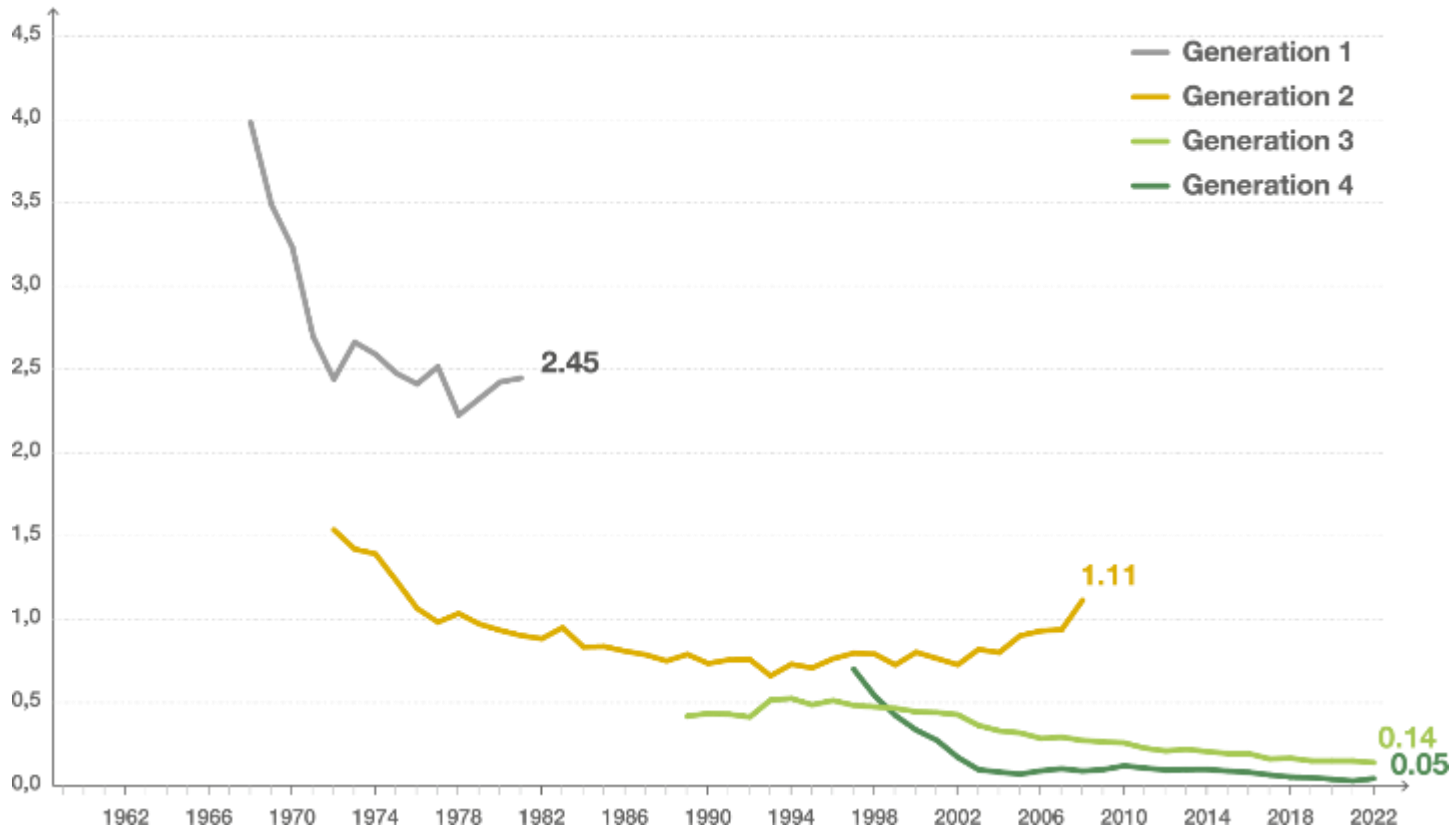

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 **EMBRAER**

2023 - Aircraft Accident Rate

Evolution of Accident Rates by Aircraft Generation

10 year moving average fatal accident rate (per million flights) per aircraft generation



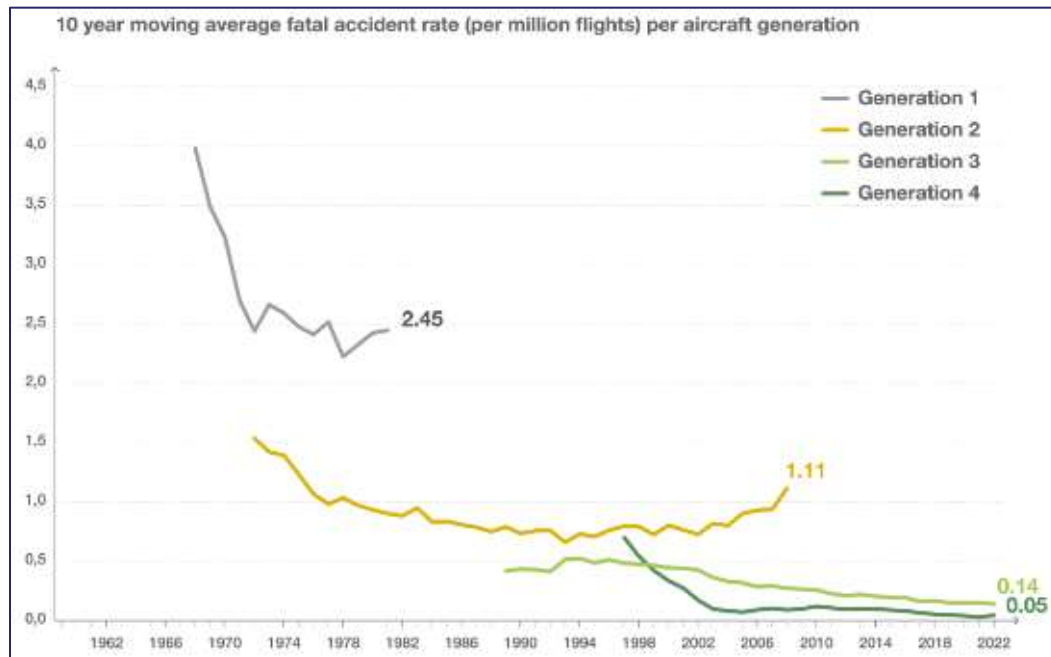
Western-built jets above 40 seats

Source: ICAO, Cirium & Airbus database

- ✓ Good statistics & records
- ✓ Access to regulations
- ✓ Aircraft reliability improvements

How can we obtain 0.000...?

Evolution of Accident Rates by Aircraft Generation



Goal: 0.0000....



Consider other risks - which ones?



Consider the environment & context:
are they conducive to be able to apply
the right competencies?



Consider the new complexity and new
liability in pilot operations

Let's take a few examples...

Before Flight: Training





Before Flight: Training



Flight Crew - Safety	1
Table of conversion F1 & m	1
CONTROLLED COMPANY FORMS - TECHNICAL OFFICE	1
Doors Training	1
E-Learning FC	1
NCFM	1
Flight Crew - Manuals	1
Safety Policy	1
Flight Crew - Safety	1
Emergency and Safety Equipment Training	1
E-Learning FC	1
NEL	2
Flight Crew - Manuals	2
Notice to Crew (FC)	114
Flight Crew - Miscellaneous	1
UPRT	1
E-Learning FC	1
GW	4
Flight Crew - Manuals	4
Pilot Incapacitation	2
E-Learning FC	2
SMM	1
Flight Crew - Manuals	1
First Aid	3
E-Learning FC	3
Loadsheet A330P2F	3
Flight Crew - Miscellaneous	3
Route and Aerodrome Competency	2
E-Learning FC	2
Volcanic Ash Awareness Training	3
E-Learning FC	3
Fatigue Risk Management	1
E-Learning FC	1
NAT-RLA	1
E-Learning FC	1
Airbus A320 Recurrent Tutorial	1
E-Learning FC	1
Security TSA Training	1
E-Learning FC	1
Personal actions assigned by me	View All
1 show additional details Personal Status	1
Actions	

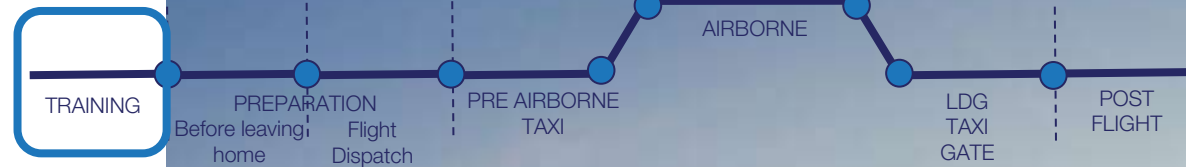
FCOM SUPPLEMENTARY P2F	2
Flight Crew - Manuals - AIRBUS A330	2
Atlantic Flights Forms	2
Flight Crew - Miscellaneous	2
Dangerous goods	7
E-Learning FC	7
A320 Pre-Flight Inspection Training	1
E-Learning FC - Operations	1
Further Reading	1
E-Learning FC - A330 P2F Differences Traini	1
FDW Bulletins	3
Safety - Safety Promotion	3
Route Briefing	2
Flight Crew - Briefings	2
FCOM A330	1
Flight Crew - Manuals - AIRBUS A330	1
EFB	3
Flight Crew - Manuals	3
Dangerous Goods	3
Flight Crew - Miscellaneous	3
COOM GTR	2
Cabin Crew - Manuals	2
Airbus Safety First	1
Safety - Safety Promotion	1
NMEL A330 CARGO	3
Flight Crew - Manuals - AIRBUS A330	3
Escape Route Manual	1
Flight Crew - Manuals	1
Safety Documents	2
Flight Crew - Safety	2
Compliance Information Bulletin	1
COMPLIANCE MONITORING DEPARTMENT	1
Fuel Management Scheme	1
E-Learning FC	1
QRH A330	3
Flight Crew - Manuals - AIRBUS A330	3
First Aid Manual	1
Flight Crew - Manuals	1
FC Training Docs	3
Flight Crew - Miscellaneous	3
Safety First Airbus	15
Flight Crew - Safety	15
Operators in Hot and High Airfields	1
E-Learning FC	1
APs	4
Flight Crew - Miscellaneous	4
Safety Information Bulletin	15

My Documents to Read	468
Security Reminders	2
AUSEC Security	2
A320	1
Training - Simulator Differences	1
Airport Briefing	85
Flight Crew - Briefings	85
AIRBUS A330	11
Flight Crew - Manuals	11
AFM A330	3
Flight Crew - Manuals - AIRBUS A330	3
Internal Calls	1
Human Resources	1
SIM April - Sep 2023	1
E-Learning FC - OPC Pilot Briefing - A330	1
Returned Flight documents	1
E-Learning FC - Operations	1
Course	1
E-Learning FC - GRF	1
June 2023 Training	2
E-Learning FC - Company Introduction	2
Training	1
E-Learning FC - A330 P2F Differences Traini	1
Safety Announcements	10
Safety - Safety Promotion	10
A330	1
Training - Simulator Differences	1
Hotels	13
Flight Crew - Briefings	13
FCOM A330	1
Flight Crew - Manuals - AIRBUS A330	1
Protocolo de comunicaciones AIRCREW	1
Flight Crew - Miscellaneous	1
EASA Safety Directive (SD)	2
Flight Crew - Safety	2
A320	4
E-Learning FC - OPC Pilot Briefing	4
Covid Measures / Annual Ground Refresher / OPC Refresher reference C	4
E-Learning FC	4
Manual Supplements	3
E-Learning FC - A330 P2F Differences Traini	3
Operations Briefings	14
Flight Crew - Briefings	14
FCOM SUPPLEMENTARY P2F	2

Before Flight: Training



Sim session vs compliance



Sim session - programme compliance

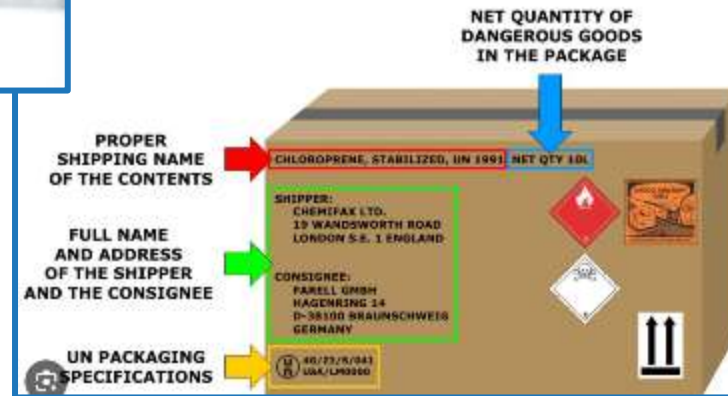
- LPC/OPC Training programme
- Appendix 9 (FCL)
- Right Hand Seat (RHS)
- Left Hand Seat (LHS)
- LVO RHS
- UPRT
- .../...

Often leading to overloaded sessions

E-Learning



MARKING & LABELING- REQUIREMENTS



e-Learnings...

Do we feel we have done something useful and efficient?



**Let's switch to the flight phase -
is it better?**

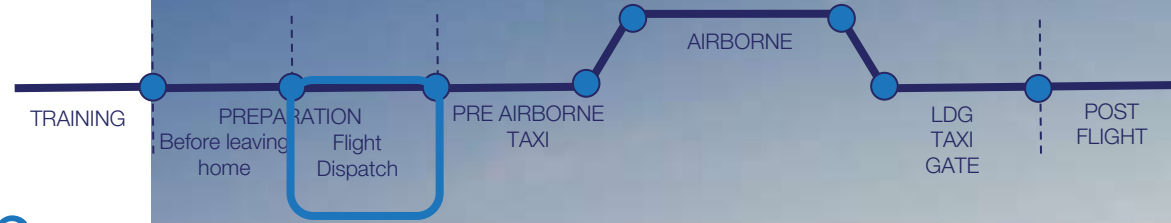


Pilot documentation: relevant or compliant?



NOTAMS

Page 1 out of 90....



Flight Preparation



Pilot documentation support is becoming:

- too focused on analytics
- too long
- too complex



Leading to:

- loss of confidence
- loss of efficiency
- loss of situational awareness

**Burning precious available time on it,
instead of focusing on operational
preparation**

What do we train pilots for?

Problem Solving and Decision Making

Situational Awareness ...

Leadership and Teamwork

Communication

Workload Management

Flight Path Management Automation

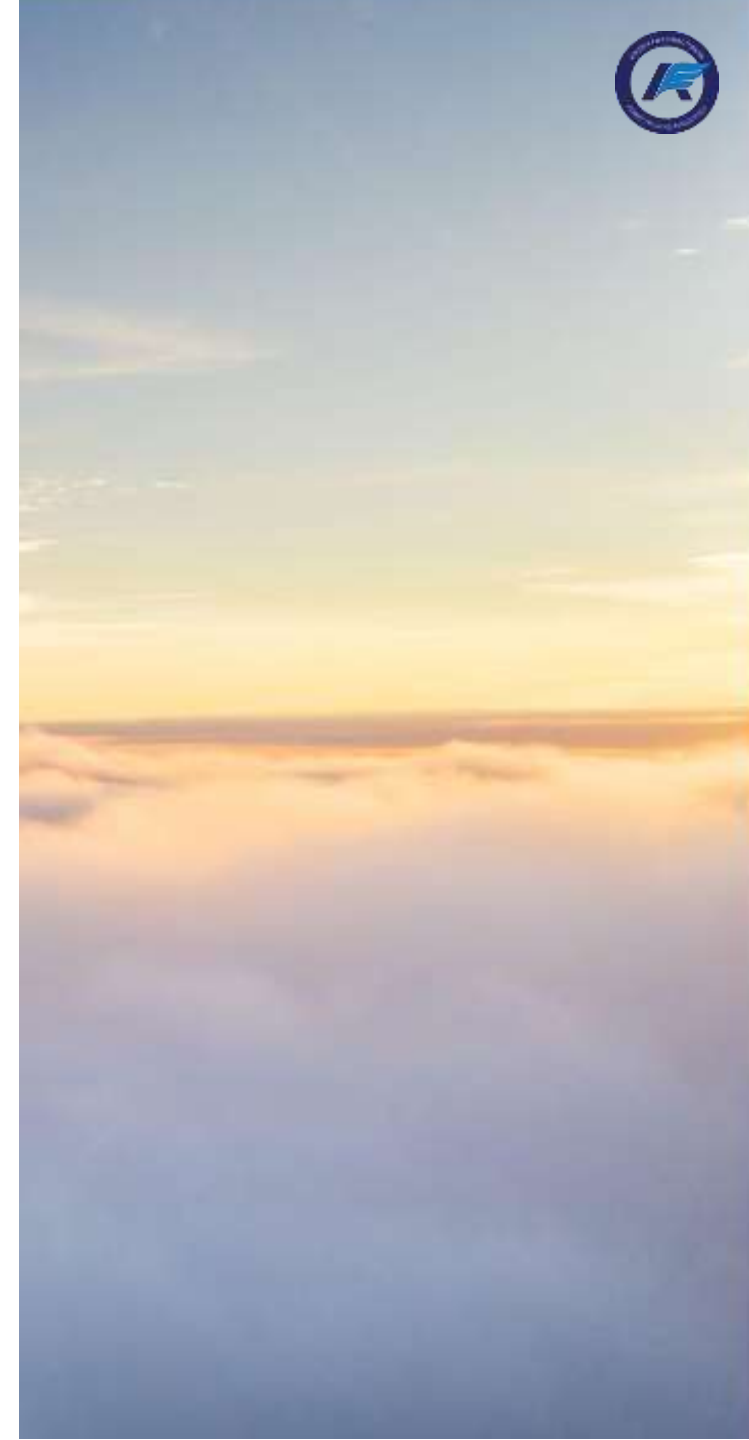
Flight Path Management Manual Control

Application of Procedures ...

Application of Knowledge

We train to be:

- knowledgeable
- ready
- efficient
- safe
- resilient



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Flight Path Management Automation

Flight Path Management Manual Control

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Application of Knowledge

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Do we create the environment for pilots to achieve this?



RISKS



Incorrect
use of Data



Poorly
trained
instructors



Ill-adapted
tools

Essentials Required

All stakeholders that support aircraft and pilot operations should participate and ask themselves the following:

What does the pilot need?
Is what I provide:



Useful? _____

Usable? _____

Adapted to the context? _____

Efficient? _____

Accessible? _____

Reliable? _____

Once I have defined what I need,
I make it compliant

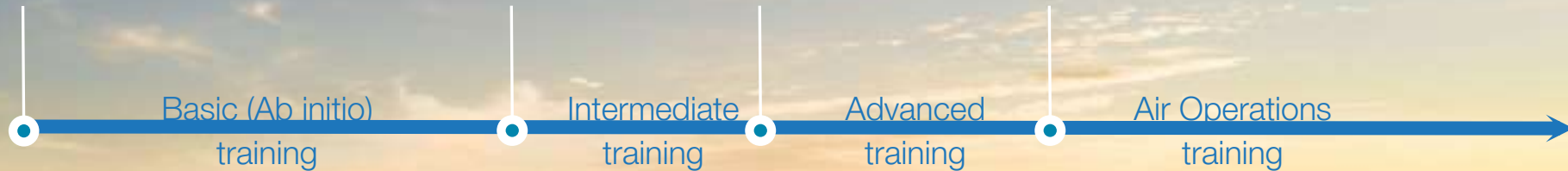


Consider the final user's real needs,

to avoid falling into the
'tick the box' trap...

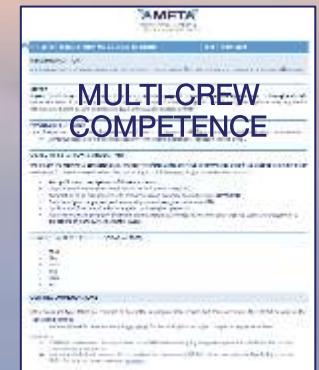
Aviation Growth & Training

Pilot competencies are key: AMFTA is working on this from Basic to Advanced training



Continue our path to support the industry

- We continue to harmonize pre-requisites globally
- We continue to align our policy on which competence and when
- We work on how to support global pilot competencies implementation



Aviation Community

The Community needs to review and come together to:



Work on our own competencies & ways
of working



Guarantee the right environment for
pilots & aircraft to operate safely &
efficiently



The entire aviation community is affected.
AMFTA & the Manufacturers are doing
their part

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All stakeholders need to consider their own area of responsibility:

Regulators ⇒ Airline Operators ⇒ Subcontractors ⇒ the Engineering office ⇒ individual Employee

Think about the final user's needs

SIMPLE

RELIABLE

EFFICIENT



THANK YOU