



PACDEFF 2009

FORUM 3







The current financial crisis and its effect on training







TOPICS

- Airlines and the global economic crisis
- CRM training What is it trying to achieve?
- Is current CRM training effective?
- CRM training under fiscal pressure







AIRLINE PERFORMANCE 2009 Forecasts

REGION

NORTH AMERICA

EUROPE

MIDDLE EAST

ASIA PACIFIC

TOTAL WORLDWIDE

LOSSES (USD)

1.0 BILLION

1.0 BILLION

1.5 BILLION

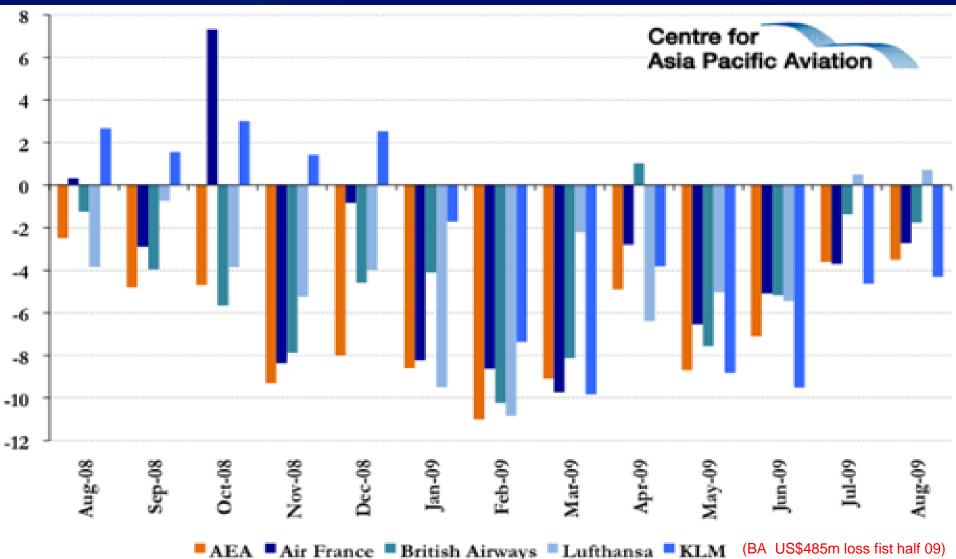
3.4 BILLION

9.0 BILLION



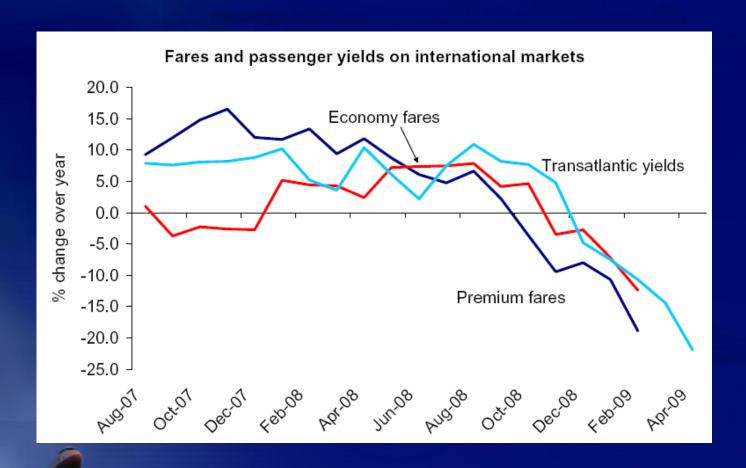
AIRLINE PERFORMANCE Europe (year on year)







AIRLINE PERFORMANCE 2009 TransatlanticYields





AIRLINE PERFORMANCE USA 2009



Results in the last fiscal quarter:

DELTA Airlines US\$161m Loss (Q3 2009)

US\$81m Loss (Q3 2009) US Airways

US\$359m Loss (Q3 2009) AMERICAN Airlines

US\$63m Loss (Q3 2009) **UNITED Airlines**

SOUTHWEST Airlines US\$16m Loss (Q3 2009)



AIRLINE PERFORMANCE Local Operators

Results in the last fiscal year:

Air New Zealand Group NZ\$115m Profit (Down 40%)

Qantas Group A\$123m Profit (Down 87%)

Virgin Blue Group A\$160m Loss (Down \$300m)

Cathay Pacific (2008) NZ\$2.1b Loss (Down \$3.5b)



SURVIVING THE ECONOMIC CRISIS - HOW ARE AIRLINES COPING?



By maximising PROFITS or minimising LOSSES through yield and route management; including:



- Matching Capacity to Demand
- ➤ Cancelling unprofitable routes
- > Reducing frequency
- Codesharing and other alliances
- > Careful revenue management
- > Seeking new profitable opportunities

SURVIVING THE ECONOMIC CRISIS - HOW ARE AIRLINES COPING?



By reducing fixed and variable costs:







- > Fuel conservation strategies
- > Financial tools
- ➢Operational Efficiencies
- ➤ Deferring Capital Investment
- **≻**Outsourcing
- ➤ Salary reductions
- > Reduced Training









Training is made up of various facets:

- Regulatory Training
- > Technical Training
- Discretionary Training
- ➤ Non-Technical Training





Regulatory Training

- > Pilot simulator checks
- > Flight Attendant and Pilot SEP recurrency

Difficult to trim





Technical Training

- > CAT 2 / CAT 3 Approaches
- > RNP / RNAV
- **EDTO**
- > SERVICE TRAINING

Difficult to trim without operational implications





Discretionary Training

- Simulator Training Exercises
- Non-regulatory Training
- Leadership / Teamwork Training

Some trimming, but a reluctance generally for airlines to trim back on simulator training





Non-Technical Training

- > Human Factors
- Non-Technical Skills
- Crew Resource Management

Easy for "Bean Counters" to ask what the <u>tangible</u> benefits are.



A ripe target for trimming in organisations without serious commitment to CRM

WHAT ARE THE BENEFITS OF NON-TECHNICAL SKILLS / HUMAN FACTORS / CRM TRAINING?

Development of:

- Knowledge
- > Skills
- > Attitudes

All of which contribute to both CRITICAL and ENABLING abilities which we need to do the job effectively

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WHAT ARE THE BENEFITS OF NON-TECHNICAL SKILLS / HUMAN FACTORS / CRM TRAINING?

A combination of these Knowledge, Skills and Attitudes make up the behavioural competencies which we need to do the job successfully.

These include: - Situational Awareness / SMM

- Decision making
- Leadership / Followership
- Teamwork / Coordination
- Communication
- Threat and Error Management



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Various studies have tried to analyse the benefits of CRM type training in an empirical sense.

A meta-analysis by O'Connor, Campbell, Newon, Melton, Salas & Wilson (2008) examined CRM effectiveness in 74 previous studies in this area.

Previous meta-analyses in 2001, 2002 and 2006 by researchers returned vary similar results.

EMPIRICAL BENEFITS OF NTS/HF/CRM TRAINING?

O'Connor et al came up with four common areas of assessment, and concentrated their paper on studies which conformed to these four levels of CRM effectiveness:

- 1. Reactions by crews to CRM training
- 2. Learning of principles, facts and skills
- 3. Behavioural changes
- 4. Organisational impact







Level 1: Reactions by crews to CRM training

Generally based on feedback at the end of training via some feedback process.

On average participants gave the usefulness of CRM training 4.18 out of 5, indicating a high degree of usefulness.





Level 2: Learning of principles, facts and skills

Includes two areas: retention of information, and a change of attitudes.

> Attitudes generally assessed using CMAQ/FMAQ type instruments.

Generally indicated a large and significant improvement in attitudes of participants to the topics covered in CRM





Level 3: Behavioural changes

Based on Behavioural Marker assessments such as the NOTECHS, LLC or TARGETS systems

Some studies indicated changes in behaviours, but others were less conclusive.







Level 4: Organisational impact

Generally assessed by tangible evidence at an organisational level of improvements in safety and productivity.

Given inherently low accident rates, it is difficult to assess this.



Analysis of Human Factors causation in incident rates warrants further study.

WHAT ARE WE AFTER FROM NTS/HF/CRM TRAINING?

- Marie Control

- 1. A greater level of knowledge, retention and understanding about NTS/HF/CRM topics
- 2. Positive Attitudes to CRM which encourage crews to participate in training, to learn and retain information, and to want to use the skills they learn in practice on the line.
- 3. A change in behaviours whereby crews practise sound Non-technical skills and apply them in all areas of the job, including Threat and Error Management

HOW DO WE ACHIEVE THIS?



- Engagement
- Quality training with knowledgeable, well trained and capable facilitators
- Sufficient training time and resources
- Organisational buy-in and commitment
- An emphasis on practical application of Non-Technical skills
- Holistic reinforcement of positive Non-Technical Skills in all areas of both training and assessment
- Using explicit Behavioural Markers as guidelines and yardsticks

HOW IS THIS ACHIEVABLE IN THE CURRENT FISCAL ENVIRONMENT?

- 1. Continued organisational commitment
- In some organisations there is no wavering here. There is a clear and overt commitment to NTS/HF/CRM training.
- In other organisations financial constraints force senior managers without such commitment to look at ways in which they can reduce spending on "nice to have" training eg.
 - using cheaper facilitators
 - reduced training time
 - reduced resourcing



HOW IS THIS ACHIEVABLE IN THE **CURRENT FISCAL ENVIRONMENT?**



- 2. Smarter, more productive training with an emphasis on outcomes and behavioural changes.
 - Engagement of participants
 - Effective classroom training which promotes retention and comprehension
 - A more practical rather than theoretical emphasis
 - Positive reinforcement of behavioural and attitudinal changes



HOW IS THIS ACHIEVABLE IN THE CURRENT FISCAL ENVIRONMENT?

- 3. Ubiquitous promotion across the industry of the benefits of NTS/HF/CRM training
 - Overt campaigning by NTS/HF/CRM Training Managers and Facilitators
 - Promotion of tools such as FMAQ/CMAQ and LOSA as empirically based measurements of CRM success
 - Relevant academic studies which quantify the benefits of NTS/HF/CRM Trg.
 - Positive promotion of the benefits of forums such as AAvPA and PACDEFF



SUMMARY



These are challenging times across this industry, and across other high risk/high tech industries which rely intensely on human participation.

We are here because we are believers and supporters of NTS/HF/CRM training, but not all organisations or individual managers share our level of support.

Training smarter, and aiming for practical improvements in both attitude and behaviours, will help engender support for HF programmes in these troubling times.