



Evolution

Cabin Crew Training & Assessment for the Future

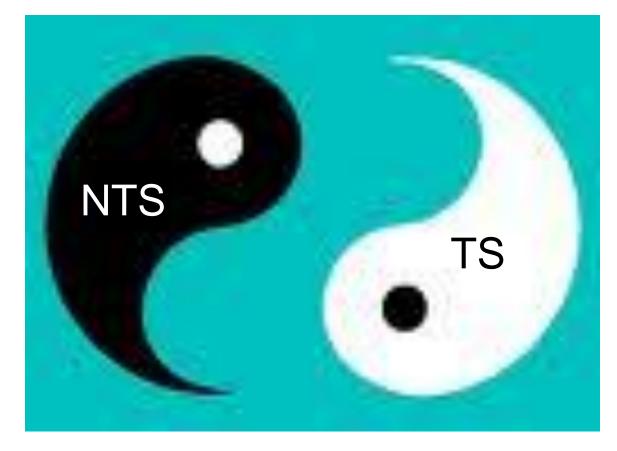
Objective

- Current Training Practices
- Vision
- Moving Toward Skill Assessment
- Behavioural Marker System
- NTS Rating Scale
- Challenges





Training









Technical Skills + Non Technical Skills = Skills for Crew Proficiency



Current Training

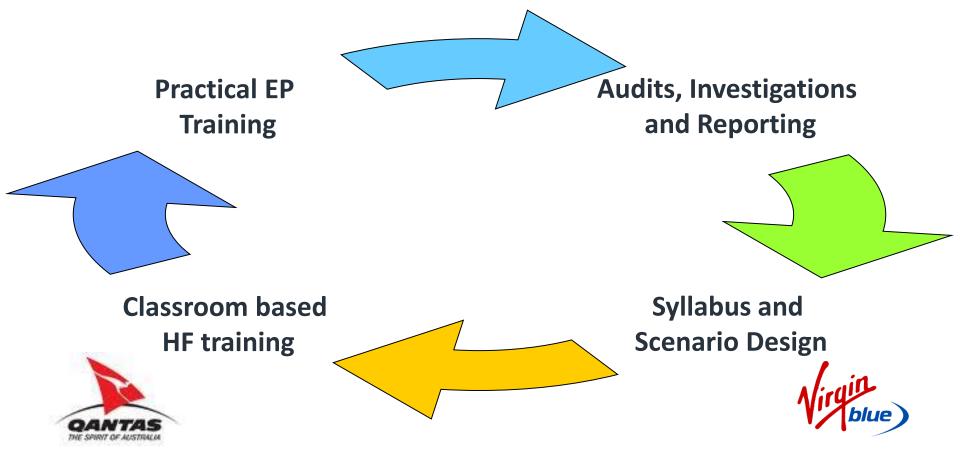
	Virgin Blue	Qantas	
Initial	1 Day	5 Hrs	
Recurrent	1 Day	2 Hrs	
	CC Focus+ Safety	Part of Eps	
Conversion		1.5 Hrs	
Command	2.5 Hrs	1 Day	

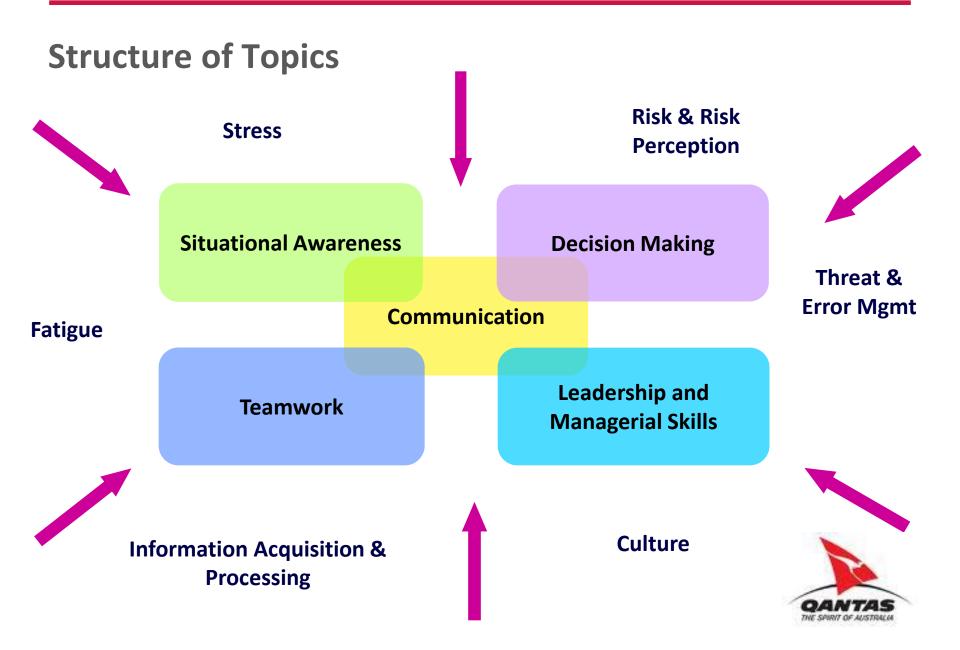




Integrating Human Factors training

• Common concepts and terminology through different types of training and different aircrew roles.





Situational Awareness **Decision Making**

Leadership

Communication & Teamwork

Stress

Management

Health

Fatigue

Management

Case Based Studies

Workload Management

Vigilance

Human Error & Reliability

Cultural Factors

Threat & Error Management

Information Acquisition & Processing

Moving toward Skill Assessment

Skills

Jeopardy Assessment?

Rating of NT Performance?

Re - Calibration of Facilitators

EP Sim Debrief - Standardisation

Development of Deficiencies Training

NTS Behaviours Incorporated in Ops Manual

Integration in all Phases of Training

Training Crew Members

Training Facilitators - Standardisation

Development of Behavioural Marker System

Practical Knowledge

Assessment

- NOTECHS
- University of Texas Model (LOSA)
- LMQCRM Standard



Behavioural Marker

Specific observable, non-technical behaviours that contribute to superior or substandard performance within a work environment. Enactment of skills or knowledge is shown in behaviour.

- Has a causal relationship to performance outcome
 - It does not have to be present in all situations
 - Its appropriateness depends on context
- It employs simple phraseology
- It describes a clear concept





NTS Category

Situational Awareness

NTS Element	NTS Behaviour		
System Awareness	Demonstrates basic knowledge of aircraft systems		
	Monitors and reports changes in system states		
Environmental Awareness	Maintains awareness of flight phase		
	Gathers all available information about the environment and informs others in a timely manner		
	Maintains awareness of whole picture - guards against tunnel vision		
	 Monitors behaviour /condition of passengers and crew 		
Anticipation	Identifies possible/ future threats to the safety of the aircraft and occupants		
	Discusses contingency strategies		
	Thinks/plans ahead of current status		

NTS Rating Scale

1	2	3	4	5
Observed behaviour directly endangers flight safety	Observed behaviour in other conditions could endanger flight safety	Observed behaviour does not endanger flight safety but could be improved	Observed behaviour enhances flight safety	Observed behaviour optimally enhances flight safety and serves as an example for other crew





NTS Principles

- Evaluations should be based only on observable behaviours
- Repetition of unacceptable behaviour must be observed
- The need for technical consequences from unacceptable NTS behaviour
- Explanation required for each category rated as unacceptable







Lack of Experience CRM- Talk to the Flight Crew Intimidation Intangible – Non Jeopardy Company Culture Cost

Facilitators

Perceptions

Time Constraints

Back Training

Inter-rater reliability

Line Audit

Non Jeopardy – Box Ticking Exercise

