Preparing for a Flight Test



CAA Chief Flight Instructors' Seminar

2025

Dave Brown

aspeq

beyond
question

A Personal Perspective



- Almost 50 years on the receiving end
- 37 years examining
- Outcome is important
- Nerves should be expected



A Personal Perspective

- How do you mitigate your flight test nerves?
- What do you tell your students to help them mitigate their nerves?
- Preparation is the key

Knowledge is Confidence

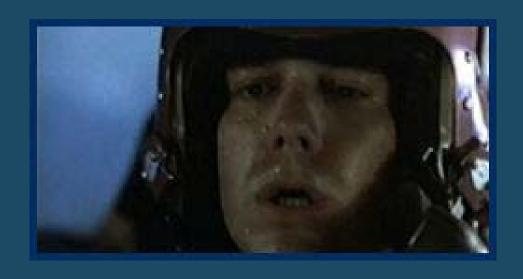
Flight Test vs Emergency

- Many similarities in how we approach and handle them
- Stress level can be high in both
- Don't rush into anything sit on your hands think before you act!

- Have you watched Top Gun?
- What did Maverick say to Cougar when he lost his nerve?



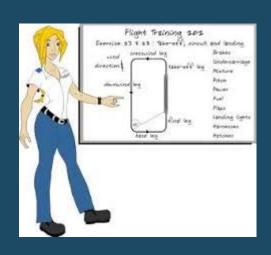
Just a walk in the park!





aspeq

beyond
question



Flight Test or Emergency

Rely on your training

Follow checklists and procedures



Good technical knowledge helps



Flight Test Preparation

Follow a process:

- Train to syllabus not to FTSG
- Aim is to learn to safely operate an aeroplane
- Practise ground work
- Mock Flight Test
- Actual Flight Test starts with a Pass
- Examiner present to validate result



Practising Ground Work

- Takes time use the bad weather days
- IFR knowledge
 - Complete full planning regardless of weather
 - Go/no-go once planning completed
- Performance calculations, Weight and Balance
- Aircraft Flight Manuals
- Emergency/Abnormal Procedures QRH



Training must be realistic and practical

- Aircraft faults, abnormalities and deferred defects
 - Deferred Defects need to be recorded
 - Don't ignore crew alerts
 - Action memory items or use QRH
- The dangers of ignoring crew alerts Negative Training

Normalisation of Deviance



A Recent Example



- A DA42 aircraft with diesel engines and FADEC's
 - During run up L ALTN FAIL caution problem?
 - This had been a recurring problem with this aircraft
 - L ALTN FAIL on and off throughout flight and ignored

A Recent Example (Cont'd)

- > LALTN FAIL followed by RALTN FAIL problem?
 - Candidate did not notice the dual failure
 - Did not know there was a QRH checklist and Warning associated with the dual failure

AFM/QRH Warning

If both alternators fail at the same time, reduce all electrical equipment to a minimum.

Expect battery power to last 30 minutes and land the airplane as soon as possible. Expect engine stoppage after this period of time.

aspec

Questions?