AN ERGONOMIC AND FUNCTIONAL APPRAISAL OF AVIATION FIREFIGHTERS



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The Culture...



"We minimise work-related fatalities, injuries, ill-health and adverse effects on the environment, and we reduce health and safety risks so that they are as low as reasonably practicable"

❖ Rt Hon Gavin Williamson (20Jun18)





The Need...





Aim: high fidelity assessment

- Observing FUNCTION in current practice
- Consent:"no surprises"
- Assessment after rehabilitation







Observations



Key metrics:

- Range of movement
- Functional strength
- Safe activity
- Perceived work intensity





Functional Reporting



EFFECTIVE:

- Grip Strength
- Core Stability
- Spinal Mobility
- Neck Strength & Movement
- Leg Strength
- > (Aerobic fitness)





Fitness for Duty

- Terms of Reference
- Scope of <u>Employment</u>
- Scope for <u>Deployment</u>
- Evidence based Medical Boarding process







Future Recommendations

 Improved design of Fire Fighting equipment

 Functional Assessment tool for ARFFs

Future policy needs
Functional Assessment





Conclusions

- > A culture of total safety in training
- ➤ Total Aviation Safety for the Duty Holder
- > Equality and Diversity
- Quality management assists retention in Service









