



# Hydrogen safety in aviation

---

**An immersive training programme  
for practitioners**

**Digital Aviation Research  
and Technology Centre**



**Hydrogen is widely seen as having an important role to play in aviation becoming carbon net zero. However, hydrogen aircraft pose new safety challenges compared with traditional technologies, and there remain key knowledge gaps in terms of future training provision and qualifications for fire and rescue, ground handling, and fuel service providers.**

## **Hydrogen safety in aviation programme**

Funded by the Connected Places Catapult and working alongside Cranfield Aerospace Solutions and Cranfield Airport, immersive 360 and XR (extended reality) technologies will be used to develop a free interactive familiarisation programme covering a basic 'awareness level' overview of hydrogen safety in aviation. This will give users the opportunity to develop their basic knowledge and understanding of hydrogen safety in a secure, interactive, and immersive training environment.





## Training programme details

**The programme will be based on live demonstrations using Cranfield Aerospace Solution's 'Project Fresson' Britten Norman Islander, one of the first gaseous hydrogen fuel cell aircraft in the UK and Cranfield Airport's Fire and Rescue Service.**

The demonstrations will be conducted in the Ground Operations (GO) laboratory at Cranfield University's Digital Aviation Research Technology Centre (DARTEC), a test-bed demonstrator for developing innovative technologies related to aircraft ground operations.

The programme is due for completion by March 2022. To find out how to access this training or for further information please visit [www.cranfield.ac.uk/dartecseamlessjourney](http://www.cranfield.ac.uk/dartecseamlessjourney)



T: +44 (0)1234 758540

[www.cranfield.ac.uk/dartecseamlessjourney](http://www.cranfield.ac.uk/dartecseamlessjourney)



THE QUEEN'S  
ANNIVERSARY PRIZES  
For Honours and Prizes in Education  
2019