

Case Study - Aircraft Maintenance



George Martin
Aerospace Training Manager

George has worked at Macclesfield College for 18 months delivering Foundation Degrees in Aircraft Maintenance and EASA 147 for Licensed Aircraft Maintenance Engineers. George works very closely with aircraft maintenance companies in the North West, UK wide and internationally identifying and meeting their training needs.

Vocational Experience

29 Years Royal Air Force

Job role: Training and Resource Coordinator for the electrical trade training flight at RAF Cosford. Role included Flight Line maintenance, second line maintenance on VC10, Belfast, Britannia, Vulcan, Harrier, Jet Provost, Bulldog, Meteor, Vampire, Canberra and Victor Aircraft. Technical Instructor at RAF Halton and Cosford with responsibility for manning, timetables, equipment and training need planning.

3 Years British Airways Maintenance, Cardiff

Job role: B747-400 Instructor. Role as a Boeing 747 specialist included delivering Certificate of Release to Service (CRS) course to licensed engineers in both B1 and B2 disciplines. Experience in installation of onboard flight entertainment systems. Responsible for security, compilation and marking of examinations. In 2002, awarded the City and Guilds Medal of Excellence for innovative production and implementation of a student tracking database.

6 Years International Centre for Aerospace Training

Teaching on a range of programmes up to BSc level across a range of engineering related subjects including Mathematics, Electrical Fundamentals, Aircraft Electrical Systems and Avionics.

1 Year Macclesfield College

Training manager for European Centre for Aerospace Engineering. Teaching on CAA 147 and Foundation Degree programmes including; Aircraft Systems, Avionics, Human factors, and Air legislation.



Contact Macclesfield College for further information:

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Qualifications

B747-400 in B1 and B2
Formerly trained College Inspector
ISO9002 Internal Auditing
Civil Aviation Authority Form Four
Certificate in Education

Vocational Updating

In June 2009, following a bid to the New Engineering Foundation for an Industrial secondment, George was invited to attend a prestigious British Airways Training event in Cardiff. The training programme, Human Factors Update, was introduced as a direct response to a recent increase in aircraft maintenance accidents worldwide.



An update on current methods used to combat the chances of a recurrent aircraft in-flight explosion included the SFAR 88 training which described examples of probable design and maintenance faults and how they were overcome. It also highlighted the need for more practical training within areas such as termination of electrical wiring, insulation of connectors and also bonding testing. A session including a description of a 'near miss' where, following a routine maintenance of a high rise servicing platform, the up lock bolt failed to secure the platform and the result was that the platform floor crashed down about 40 feet - narrowly missing some engineers. Also included was the shift pattern structure where fatigue played a part in some minor but serious incidences. George commented, *"The course that I attended was exceptional and has already benefitted ECAT."*

George identified good practice which could be cascaded to the ECAT team and since attending, the team have introduced new systems in the ECAT hangar to improve student safety whilst they undertake learning and assessment. George has been able to apply the latest industry recommendations into his teaching on to EASA Part 66 "A" Licence Module 9, Foundation Degree and the full cost industrial courses.

Keeping up to date in the field of Aircraft maintenance is vital. ECAT staff have 'Essential Reading' requirements including a recent CAA –GASIL Issue 4 Update on altimeter serviceability.

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