

The Air Pilot's **Manual**

## **Volume 3**

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# **Air Navigation**

*'Recommended reading'*  
*Civil Aviation Authority*



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Air Pilot Publishing

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## Editorial Team

### **Dorothy Saul-Pooley LLB (Hons) FRAeS FRIN**

Dorothy held both an ATPL (A) and CPL (H) and was an instructor and examiner on aeroplanes and an instructor on helicopters for over 25 years. For 15 years she was Head of Training of a school dedicated to running Flight Instructor and examiner courses at Shoreham Airport. For 20 years Dorothy was also a CAA Flight Instructor Examiner (Senior Examiner).

Dorothy originally qualified as a solicitor in 1982 and acted for many years as a specialist dealing with aviation insurance liability issues and aircraft accident investigation work. She has lectured widely on aviation law and insurance matters. This highly unusual combination of qualifications and experience led to Dorothy's appointment as one of the Honorary Solicitors to the Guild of Air Pilots and Air Navigators (GAPAN).

Dorothy is a Fellow of the Royal Aeronautical Society and of the Royal Institute of Navigation. She is the Past Chairman of the GAPAN Instructor Committee, of which she was a founding member and she was the prime instigator of the Guild's biennial joint Forum with the Central Flying School at RAF Cranwell for Senior Flight Instructors, both civil and military. She is also Past Chairman of the Education and Training Committee. Dorothy was elected to the post of Master of the Honourable Company of Air Pilots (formerly GAPAN) for the year 2014-2015, the first woman to hold that post. Dorothy currently holds the post of Chairman of the Professional Flying Instructors Association and is the Governor of the British Section of the 99s, an international women pilots' organisation.

In 2003, Dorothy was awarded the Jean Lennox Bird Trophy for her contribution to aviation and support of Women in Aviation and the British Women Pilots Association (BWPA). In 2013, Dorothy was honoured to receive the prestigious award of a Master Air Pilot certificate from GAPAN. In 2015 she was awarded the Brabazon Cup by the BWPA for her outstanding achievements in aviation. In 2019 Dorothy was awarded the Pike Trophy by the Honourable Company of Air Pilots for her outstanding contribution to the maintenance of civil flying instruction standards.

As consulting editor for Air Pilot Manuals and for Pooleys Flight Equipment, Dorothy has written, edited and contributed to more than 30 training manuals and has published many articles in aviation magazines, legal journals and on-line publications.

### **Stephen Wicks PhD**

Steve won an ATC Flying Scholarship and made his first solo flight at Ipswich Airport, moving on to join the Stapleford Flying Club as a PPL. He was a member of the Bristol University Air Squadron and trained on Bulldogs at Filton and RAF St Mawgan whilst at the University of Bath. Steve acted for many years both as a university lecturer and industrial scientist, publishing patents and articles in scientific journals. He is a regular contributor to scientific conferences, seminars and executive education workshops and is a visiting professor at the University of Bath and the University of Greenwich. After retiring from an industrial career, he started flying with TG Aviation at Manston and obtained a CPL(A) from the London Metropolitan University and the Sussex Flight Centre at Shoreham.

He obtained a Flight Instructor Certificate from Pooley's Flying Instructor School and is now active in *ab initio* flight training and the ground school operation at TG Aviation, Lydd. He is an activist in the Save Manston Airport campaign.

## **Claire Hatton**

Claire became obsessed with flying at the age of 14, during a family summer holiday (although strangely, no-one in her family had any connection to flying!) A fact-finding visit to some local flying schools a few weeks later resulted in a Saturday job for Claire, helping on ops at Manchester School of Flying (MSF) at Manchester Airport – and having her first flying lesson! She worked at MSF throughout school, achieved her first solo flight on her 17th birthday (the earliest opportunity at the time) and gained her PPL four months later, during sixth form. Claire later flew Bulldogs with Bristol University Air Squadron, relishing solo aerobatics, then worked as cabin crew for Monarch Airlines to fund her ATPLs and Flight Instructor rating, assisted by the award of an Amy Johnson Memorial Scholarship.

Claire became the youngest female FI in the UK at the time, age 22, and immediately started instructing at Manchester School of Flying where her aviation journey had begun. She won the Jackie Moggridge Cup from the British Women Pilots' Association, awarded to a female pilot for achieving excellent qualifications in her chosen career. Later that year she added a Multi-Engine Instrument Rating, assisted by the award of an Air League bursary, and flew the 'Eye In The Sky' traffic watch flights for a local radio station, then worked at Caernarfon Airport as a pleasure flight pilot on a Piper Aztec.

Claire authored her flying instructor manual 'You Have Control! Being a Better Flying Instructor' and had regular instructional articles featured in the aviation press, both in the UK and other countries. She then added Multi-Engine Instructor privileges and focused on teaching the Multi-Engine CPL and Multi-Engine IR for Ravenair at Liverpool John Lennon Airport.

Having always had a keen interest in aviation safety, in 2015 Claire became Safety Manager for Air Traffic Control Services Ltd, the Air Navigation Services Provider (ANSP) for Liverpool John Lennon Airport, Doncaster Sheffield Airport and Teesside International Airport, continuing to fly and write in her spare time. She is a long-standing member of the British Women Pilots' Association and runs the BWPA North West Regional Group.

## **Martin Hatton**

Martin Hatton first learnt to fly with a Royal Air Force Sixth Form Scholarship and RAF Flying Scholarship in 1991 and after spending a few years in the military and working in civilian airfield operations, he became a Commercial Pilot Licence Holder in 1999 and Flying Instructor in 2000.

Since qualifying as an FI, Martin has kept progressing and adding to his instructor and examiner qualifications and in 2007 became Chief Flying Instructor and Flight Examiner at Ravenair, based at Liverpool John Lennon Airport. He was also a Training Captain for their AOC operation.

Martin was responsible for developing the Approved Training Organisation at Ravenair along with quality and standards. He also achieved compliance within the organisation in accordance with all the changes brought in with EASA.

Since leaving his full time position with Ravenair, Martin has worked for Eastern Airways flying the Jetstream 41 on a domestic flight network and flying charter operations for a variety of third party customers.

Over several years he, along with his wife and fellow instructor Claire, have written and produced a full set of groundschool courses for PPL students, and PPL holders, and have run many groundschool courses at flying schools and colleges.

Martin is an Upper Freeman (recently invited to take the Livery) of The Honourable Company of Air Pilots. He was an active member of the Instructor Working Group for 11 years, in which he was co-ordinator and editor for the Company's PPL Instructor Guide. He currently sits on the selection and interview panel for the Company's FI scholarships.

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## ***A Condensed History of the Air Pilot Manuals***

For over 35 years the Air Pilot Manuals have led the academic training of pilots in the United Kingdom and in many countries around the world.

I first met Trevor Thom, a professional pilot and natural teacher, in Melbourne during a visit to Australia in January 1985. He already had his series of PPL Manuals for the Australian market and I asked him to produce a series for the New Zealand market where we had a small aviation business. Having completed this task, Trevor immediately began writing the first of the Air Pilot Manuals for the United Kingdom market and this project began in earnest on 5<sup>th</sup> December 1985.

Both Trevor Thom and Robert Johnson commenced the task in my office at Felden, Hertfordshire. By the end of the following year, all four volumes were completed and were published in February 1987. By the end of that year, we estimated that 95% of all the UK Flying Schools were using our manuals. Volumes 5, 6 and 7 followed, so completing the full series which also now includes the Question & Answer Exam Books Volumes 1-9 and the Air Presentations series of PowerPoint Teaching Aids.

Unfortunately, Trevor Thom had a serious accident at home which prevented him from continuing with the editing of the manuals. His rights were eventually sold to David Robson, another experienced pilot and natural teacher, who progressively improved the drawings and brought colour into the manuals for the first time.

Over the years there have been many assistant editors, in particular Peter Godwin, whose help I first asked for in the very early days with Trevor Thom and which continued until quite recently. The rights in the Air Pilot Manuals are now vested with the Pooley family and they continue to be edited by Dorothy Saul-Pooley, with the assistance of Daljeet Gill who is responsible for the design and layout, and are published from our offices at Shoreham Airport. The APM series of manuals are used in many countries around the world.

**Robert Pooley** MBE CStJ FRIN FRAeS