





POOLEYS

Pilot's Work Book

Pooleys EASA PPL Ground School

- To accompany the Air Pilot's Manuals -



Pooleys Flight Equipment Ltd | Elstree Aerodrome | Hertfordshire | WD6 3AW

Tel: **+44(0)20 8953 4870** | Fax: **+44(0)20 8953 2512** Email: **sales@pooleys.com** | Website: **www.pooleys.com**

Nothing procedures and any in this manual supersedes any EU legislation, rules or EASA regulations or operational documents issued by The Stationery Office, the Civil Aviation Authority, National Aviation Authorities, the manufacturers of aircraft, engines and systems, or by the operators of aircraft throughout the world. Note that as maps and charts are changed regularly, those extracts reproduced in this presentation must not be used for flight planning or flight operations.







Pooleys EASA PPL Ground School - To accompany the Air Pilot's Manual, Vol. 2

Nothing in this manual supersedes any legislation, rules, regulations or procedures contained in any operational document issued by Her Majesty's Stationery Office, the Civil Aviation Authority, the European Union, the European Commission, EASA, ICAO, the manufacturers of aircraft, engines and systems, or by the operators of aircraft throughout the world.

Pooleys Air Presentations, Air Law, Pilot's Work Book.

Copyright 2016 © Pooleys Flight Equipment Ltd

ISBN: 978-1-84336-231-9

First Edition June 2016

All rights reserved. No part of this publication may be reproduced in any material form (including photocopying or storing it in any medium by electronic means and whether or not transiently or incidentally to some of the use of this publication (without the written permissions of the copyright owner) except in accordance with the provisions of the Copyright, Designs and Patent Act 1988 or under the terms of a licence issued by the Copyright Licensing Agency Limited, 90 Tottenham Court Road, London, England W1P 0LP. Applications for the copyright owner's written permission to reproduce any part of this publication should be addressed to the publisher.

Warning: The doing of an unauthorised act in relation to a copyright work may result in both a civil claim for damages and criminal prosecution.

Pooleys Flight Equipment Ltd Elstree Aerodrome Hertfordshire WD6 3AW England, UK

Tel: 0208 953 4870 Fax: 0208 953 2512

Email: sales@pooleys.com Website: www.pooleys.com









Editorial Team

Author: Helena Hughes BA (Hons)

Helena Hughes was born into an aviation household, having her first informal "flying lesson" at the age of four. Her late father David was a flying instructor and also flew corporate jets. On leaving University in 1989 Helena went to America to obtain a PPL, converting to a UK licence on return. Shortly afterwards she started work in Air Traffic Control at London Luton Airport earning her Controllers Licence in 1990. During her time at Luton she was involved in controller training as both an Instructor and Assessor. Helena continues to be an operational Air Traffic Control Officer and is currently posted to Swanwick working "Luton Radar", "Thames Radar" and "Heathrow Special." She holds a CPL/IR(A) and has been a flying instructor since 1996 teaching PPL and associated ratings, Helena also has a PPL(H). She is an ATC, AGCS, Ground and Communications Examiner.









Index

| International Aviation (ICAO) | 1 | Airborne Collision Avoidance: | |
|--|----|---|----|
| ICAO Articles (1) | 2 | Order of Landing | 33 |
| ICAO Articles (2) | 3 | Airborne Collision Avoidance: | |
| ICAO Articles (3) | 4 | Landing & Take-Off (1) | 34 |
| ICAO Articles (4) | 5 | Airborne Collision Avoidance: | |
| ICAO Articles (5) | 6 | Landing & Take-Off (2) | 35 |
| ICAO Articles (6) | 7 | Right Hand Traffic Rule (Rule 16) | 36 |
| ICAO Articles (7) | 8 | Aircraft Lights (Rule 46) | 37 |
| ICAO Articles (8) | 9 | Navigation Lights | 38 |
| ICAO Articles (9) | 10 | Aircraft Lights (Rule 46) | 39 |
| EASA/UK Aviation Law | 11 | Failure of Navigation or | |
| Aeronautical Information Service (1) | 12 | Anti-Collision Lights (Rule 48) | 40 |
| Aeronautical Information Service (2) | 13 | Aerodrome – Definitions | |
| Summary | 14 | Right of Way on the Ground (Rule 42) | 41 |
| Rules of the Air | 15 | Collision Avoidance | |
| Applicability (Rule 2) | 16 | on the Ground (Rule 43) | 42 |
| Low Flying (Failure of Power Unit) | 17 | Rules for Taxying | 43 |
| Low Flying (1000 feet Rule) | 18 | Aerodrome Traffic Zone | 44 |
| Low Flying (Land Clear Rule) | 19 | Operation in an Aerodrome Traffic Zone | 45 |
| Low Flying (Assemblies) | 20 | Standard Overhead Join | 46 |
| Low Flying (500 Feet Rule) | 21 | Declared Distances | 47 |
| Aerobatics (Rule 15) | | Water Contamination on Runways | 48 |
| & Weather Reports (Rule 7) | 22 | Aerodrome Beacons | 49 |
| Notification of Arrival & Departures | 23 | Light Signals from the Ground | 50 |
| Simulated Instrument Flight (Rule 23) | 24 | Light Signals from an Aircraft | 51 |
| Practice Instrument Approaches (Rule 24) | 25 | Ground Signals & Markings (1) | 52 |
| Aerodrome Traffic Zone (ATZ)(Rule 45) | 26 | Ground Signals & Markings (2) | 53 |
| Airbourne Collision Avoidance (Rules 8-11) | 27 | Ground Signals & Markings (3) | 54 |
| Airborne Collision Avoidance: | | Ground Signals & Markings (4) | 55 |
| Converging (1) | 28 | Runway Threshold Markings | |
| Airborne Collision Avoidance: | | Displaced Threshold Marking Perm./Temp | 56 |
| Converging (2) | 29 | Runway Unservicable/Runway Markings | 57 |
| Airborne Collision Avoidance: | | Taxiway Markings/Information Signs for | |
| Approaching Head On | 30 | Surface Movement | 58 |
| Airborne Collision Avoidance: Overtaking | 31 | Taxiway Intersections | 59 |
| Airborne Collision Avoidance: | | Mandatory Signs for Surface Movement | 60 |
| Flight in the vicinity of an Aerodrome | 32 | Taxiway Holding Position–Signs & Markings | 61 |
| | | Marshalling Signs (1) | 62 |
| | | | |









Index

| Marshalling Signs (2) | 63 | Transition Altitude and Level | 93 |
|---|----|---|-----|
| Runway Lighting (1) | 64 | Which Pressure Setting to use? | |
| Runway Lighting (2) | 65 | & Registration | 94 |
| Obstacle Marking and Lighting | 66 | Registration Markings | 95 |
| Flight Information Regions | 67 | Airworthiness | 96 |
| Classification of Airspace/Class A Airspace | 68 | Maintenance/Technical Log/ Flight Manual | 97 |
| Class B & C Airspace | 69 | Documents to be Carried | 98 |
| Class D & E Airspace | 70 | EASA Licensing & Student Pilots | 99 |
| Class F and G Airspace | | Private Pilot's Licence | |
| & Control Zones and Areas | 71 | Requirements/Privileges | 100 |
| Airways and TCA | 72 | Private Pilot's Licence | |
| Military Air Traffic Zones | 73 | –Weather Minima (CAS) | |
| Airspace Restrictions | 74 | -Weather Minima (Outside CAS) | 101 |
| Danger Areas | 75 | Private Pilot's Licence – Currency | 102 |
| Areas of Intense Aerial Activity | 76 | Type and Class Ratings | 103 |
| Air Traffic Services – Objectives | 77 | Class Ratings EASA Part-FCL 1 | |
| Air Traffic Services – Types | 78 | & Class Ratings EASA Part-FCL 1 | 104 |
| Flight Information Service at Aerodromes | | Medicals – Requirements | 105 |
| & Control Zones and Areas | 79 | Flight Radio Telephony Operator's Licence | |
| Safetycom and Alerting Service | 80 | & Personal Logbooks | 106 |
| Air Traffic Services Outside Controlled | | Personal Logbooks | 107 |
| Airspace (ATSOCAS) | | Pre-Flight Action | 108 |
| & Lower Airspace Radar Services | 81 | Transponder Modes | 109 |
| Traffic Service & Deconfliction Service | 82 | Transponder – Conspicuity Code | |
| Non-Radar Services – Basic Service | | & Special Purpose Codes | 110 |
| & Procedural Service | 83 | Wake Turbulence – General | 111 |
| Visual Flight Rules – by Day | | Wake Turbulence – Departure Separations | |
| & Alternatives by Day | 84 | & Emergencies – Distress | 112 |
| Visual Flight Rules – by Night | | Emergencies – Urgency | 113 |
| & Alternatives by Night | 85 | Search and Rescue (SAR) | 114 |
| Semi-Circular Rule | 86 | Search and Rescue – Emergency Phases, | |
| Instrument Flight Rules (Rules 32-37) | | & Signals | 115 |
| & Minimum Height (Rule 33) | 87 | Accident Investigations | 116 |
| IFR Rules 35, 36 and 37 | 88 | Interception Procedures | 117 |
| Special VFR – Pilot's Responsibilities | 89 | Interception Procedures | |
| Altimetry – Terminology (1) | 90 | – Signals from the Intercepting Aircraft | |
| Altimetry – Terminology (2) | 91 | – Signals from the Intercepted Aircraft | 118 |
| Altimeter Setting Regions | 92 | | |