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| The CIX VFR Club | Flight Training Notes | Exercise 32 |
| For Simulation Purposes only. Not to be used for real World flight | MULTI-ENGINE PISTON AIRCRAFT TRAINING SYLLABUS | Issue 1.1 05/04/11 |

1 INTRODUCTION

Flying a small twin engine aircraft is significantly different from flying a similar single engine aircraft. The main differences are: -

- 1) Two engines, naturally.
- 2) Two of every engine control
- 3) Constant Speed Propellers requiring different power management techniques
- 4) Retractable undercarriage in most twin aircraft.
- 5) Higher aircraft weight and payloads
- 6) Higher flying speeds; different handling techniques
- 7) Different emergency procedures

2 TRAINING SYLLABUS

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| Exercise 1 | Aeroplane Familiarization and Preparation for Flight |
| Exercise 1A | Documents and Airworthiness |
| Exercise 1B | Performance and Limitations |
| Exercise 1C | Principles of Flight - One Engine Inoperative |
| Exercise 1D | Weight and Balance, Loading |
| Exercise 1E | Pre-Flight Inspection (Air Item) |
| Exercise 1F | Engine Starting, Run-up, Use of Checklists |
| Exercise 2 | Ancillary Controls/Operation of Aircraft Systems |
| Exercise 3 | Taxiing |
| Exercise 4 | Takeoff, Circuit and Landing |
| Exercise 4A | Takeoff |
| Exercise 4B | Circuit |
| Exercise 4C | Approach and Landing |
| Exercise 5 | Cruising Flight |
| Exercise 6 | Engine Failure (Cruise Flight) and Manoeuvring with One Engine Inoperative |
| Exercise 6A | Aeroplane Control |
| Exercise 6B | Cockpit Checks |
| Exercise 6C | Single-engine Manoeuvring |

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- Exercise 7 Manoeuvring at Reduced Airspeed
- Exercise 8A Stall (Clean Configuration)
- Exercise 8B Approach to Stall (Landing Configuration)
- Exercise 9 Steep Turn
- Exercise 10 Engine Failure During Takeoff or Overshoot
- Exercise 10A Aeroplane Control
- Exercise 10B Cockpit Checks
- Exercise 11 Intentional Engine Shutdown
- Exercise 11B Arrival, Approach and Landing - One Engine Inoperative
- Exercise 12 Emergency Procedures/Malfunctions