**LESSON PLAN**

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| **Lesson** | Straight Glide | **Instructor** |  | **Class/Group** |  |
| **Location** | Maps & Simulation Room | **Date / Time** | / | **Equipment** | Flight Sim |

**INTRODUCTION**

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| **Interest** | To develop your piloting skills in preparation for a Gliding Scholarship in the Viking. | |
| **Need** | To achieve and maintain the straight glide in balance and in trim. | |
| **Title** | Straight Glide  **REF – ACP122 (P24- 25)** | |
| **Revision** | * About the Viking * Cockpit Layout * Axes of Aircraft * Further effects of control surfaces * Use of trimmer | * Primary effects of control surfaces * Secondary effects of control surfaces * Definition of datum attitude * Use of airbrakes |
| **Objectives** | * By the end of this lesson you will be able to:   + To achieve and maintain the straight glide in balance and in trim. | |
| **Scope** | This lesson will last 1 hours | |
| **Handouts** |  | |

**DEVELOPMENT**

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| **Content** | **Notes** |
| Flight Simulator Scenario: The simulator should be launched using the Grob G103a Twin ӀӀ Viking above an appropriate airfield. | |
| Each exercise should be followed by the cadet(s) practicing that exercise. | |
| **1. Airmanship.** | 5 min. Discuss Lookout Attitude Instruments (LAI) |
| **2. Straight glide.** | 10 min. Recognise 5 points: wings level, normal gliding attitude, airspeed 50 kts, aircraft in balance and flying on a constant heading towards reference point. |
| **3. The Exercise.** |  |
| **3.a. Achieving the straight glide.** | 5 min. Use co-ordinated controls to achieve straight glide. |
| **3.b. Maintaining the straight glide.** | 5 min. Keep up LAI. |
| **3.c. Regaining a heading reference.** | 5 min. To regain a heading reference use small amounts of co-ordinated control and continue LAI. |

**CONSOLIDATION**

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| **Summary**  The cadet(s) have now learnt how to achieve and maintain the straight glide in balance and in trim. |
| **Test Learning**  Select datum attitude then ask cadet to transition to the glide. |
| **Restate Objectives**  By the end of this lesson you will be able to:   * + To achieve and maintain the straight glide in balance and in trim. |
| **Student Questions** |
| **Review and Look Forward**  Next Lesson: Winch Launch  AIMS To take-off, climb and release. |