**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.
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| **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.
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| **Student Questions** |
| **Review and Look Forward**Next Lesson: Winch LaunchAIMS To take-off, climb and release. |