**LESSON PLAN**

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| **Lesson** | Medium Turns | **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 Vigilant | |
| **Need** | To learn how to execute medium level turns. | |
| **Title** | Take Off & Climb **REF – FTP 124 (P22 - 24)** | |
| **Revision** | * Attitudes * Transition * Lookout | * FRC’s * Co-ordinated Controls * Airbrakes |
| **Objectives** | * By the end of this lesson you will be able to:   + To turn onto specific features using up to 30º of bank | |
| **Scope** | This lesson will last 1 hour | |
| **Handouts** |  | |

**DEVELOPMENT**

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| **Content** | **Notes** |
| Flight Simulator Scenario: The simulator should be launched using the Grob G109B Vigilant in flight above an appropriate airfield. | |
| Each exercise should be followed by the cadet(s) practicing that exercise. | |
| **1. Airmanship.** | 5 min. Lookouts. |
| **3.a. Maintaining the turn.** | 10 min. Demonstrate importance of LAI. |
| **3.b. Entering the turn.** | 10 min. Lookouts and use of co-ordinated controls up to 30° angle of bank. |
| **3.c. Exiting the turn.** | 10 min. Use of co-ordinated controls and lookout. level attitude achieved. |
| **4. Turning in the opposite direction.** | 5 min. explain that the view ahead will be noticeably different when turning in another direction. |
| **5. Rolling out onto a selected feature.** | 5 min. anticipate the turn, and be away of delay. |
| **6. Turning in the glide.** | 5 min. Notice may need more rudder than normal for co-ordinated controls. |
| **7. Turning in the climb** | 5 min. Notice may need less rudder than normal for co-ordinated controls. Limit to 15° of bank. |
| **8. Recovery from an overbanked turn** | 10 min. reduce bank using co-ordinated controls, then correct pitch and regain datum attitude |

**CONSOLIDATION**

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| **Summary**  The Cadet(s) have now learnt how to execute turns of up to 30° in the glide, level and climb attitude as well as how to recover from a large turn. |
| **Test Learning**  Instruct the cadet to perform a medium turn onto a reference point. |
| **Restate Objectives**  By the end of this lesson you will be able to:   * + To turn onto specific features using up to 30º of bank |
| **Student Questions** |
| **Review and Look Forward**  Next lesson: Approach and Landing  AIM. To fly the approach and land the aircraft. |