**LESSON PLAN**

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| **Lesson** | Stalling | **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 recognise a stall and recover from it. |
| **Title**  | Stalling  **REF – FTP 124 (P30 - 32)** |
| **Revision** | * Attitudes
* Transition
* Lookout
 | * FRC’s
* Co-ordinated Controls
* Angle of attack
 |
| **Objectives** | * By the end of this lesson you will be able to:
	+ To monitor the speed and prevent the stall.
	+ To recognise and recover from stalls with minimum height loss
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| **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. Before deliberately stalling, Pre-Stalling checks must be carried out from FRC’s. |
| **2. Considerations.** | 10 min. Explain what happens during a stall and why an aircraft will stall. |
| **5. The full stall.** | 15 min. Notice the 4 symptoms of the stall |
| **6. Standard stall recovery.** | 10 min. control column central forward. Regain safe flying speed 50 kts. Level wings, return to correct attitude. |
| **8. Stalling in a turn.** | 5 min. Still use Standard stall recovery. |
| **9. Approach to the stall.** | 10 min. notice 4 signs of an approaching stall.  |
| **10. Stall prevention.** | 5 min. must be able to recover from full stall. Recognise signs, and set correct attitude. |
| **11. Approaching stall in the turn.** | 5 min. same signs, and same method for preventing the stall. |
| **12. Approaching stall on the final approach.** | 10 min, difficult to detect stall during final approach. If recognised, close airbrakes. Reselect attitude, check for approach speed then reselect airbrakes. |

**CONSOLIDATION**

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| **Summary**The cadet(s) have now learnt how to recognise the signs of an approaching stall and the symptoms. The cadet(s) have also learnt how to recover from a stall and avoid it occurring. |
| **Test Learning**Place the aircraft into an attitude where it will stall, instruct the cadet to hold the attitude until the aircraft stalls and then recover. Cadet should point out signs and symptoms.  |
| **Restate Objectives** By the end of this lesson you will be able to:* + To monitor the speed and prevent the stall.
	+ To recognise and recover from stalls with minimum height loss
 |
| **Student Questions** |
| **Review and Look Forward**Next lesson: CircuitsAIM To fly a normal circuit. |