### Lesson Plan and Training Record

### RPL(A) 16: Advanced Stalling

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| Flight no: | RPL(A) 16. \_\_\_ | Trainee name & ARN: |  | | |
| Date: |  | Instructor: |  | | |
| Aircraft registration: |  | Aircraft type: |  | Flight time: |  |

### **Lesson Overview**

* Recognition and recovery from nose high unusual attitude flight conditions
* Revise incipient stall and stall from straight and level
* Advanced stalls – stall entry from climbing, descending (including glide and approach configuration), turning
* Spin avoidance – entry from straight and level, climbing and turning
* Circuit departure and arrival procedures
* Local area airspace procedures
* Weather forecasts
* Assess:
  + advanced stalling and wing drop recovery

### Pre-Flight Knowledge

* Long Briefing: 0.8 hour
* Pre-flight Briefing: 0.3 hour
* Underpinning knowledge: as required

| Content | |
| --- | --- |
| **Long briefing** – Advanced Stalling   * Review essential knowledge from stalling brief * Advanced stalling – stall recognition, recovery and control technique, entry from the following manoeuvres:   + climbing   + descending (approach configuration and glide, simulated partial and complete engine failure configurations)   + turning   + climbing turn   + descending turn (approach configuration and glide) * Recognition of and recovery from a stall with a wing drop; entry from the following manoeuvres:   + straight and level   + climbing   + turning * Application in flight and checklist procedures (e.g. HASELL) | |
| **Underpinning knowledge**   * Review/expand previously introduced knowledge as required * Local weather patterns [C2 4(e)] * Documented radio procedures relevant to the VFR [C3 4(b)] (relevant to transit to and from, and operations within, the training area) * The environmental conditions that represent VMC [A1 4(h) & A3 4(n)]], Day VFR flight rules [A1 4(j) & A3 4(o)] * Relationship between AOB, LF & stall speed [A3 4(i)] * Relationship between induced drag and operating at low speed [A3 4(j)] * Local area operating procedures [A3 4(p)] (relevant to transit to and from, and operations within, the training area), training area lateral & vertical boundaries * Aerodynamic and aeroplane operational considerations related to slow flight, stalling, spinning & upset aeroplane states [A5 4(b)(i)-(xii)] | |
| **HF & NTS**   * Task management [NTS1 4(b)] * Undesired aeroplane state – prevention, identifying, controlling [NTS2 4(e)] * How an undesired aeroplane state can develop from unmanaged threat or error [NTS2 4(f)] * Use of checklists and standard operating procedures to prevent errors [NTS2 4(h)] | |
| **Pre-flight briefing**   * Review flight sequences, what to expect, see & do * Check essential knowledge * Reinforce threat & error management * Reinforce significant airmanship points | |
| Pre-flight knowledge components complete: | Instructor’s signature & date |
|  |  |

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| Performance Standard | | |
| ****3**** | ****2**** | ****1**** |
| Has received training in the element, however, is not able to consistently demonstrate competency to the standard required for qualification issue | Demonstrates a developing level of proficiency, and is deemed safe to conduct solo practice under direct supervision | Achieves competency to the standard required for qualification issue |

### Flight Training

### Suggested flight time: 1.0 hour dual

| MOS Reference | Lesson Content (Elements & Performance Criteria) | Performance  Standard | |
| --- | --- | --- | --- |
| Required | Achieved\* |
| C1.2 | Communicating face-to-face |  |  |
|  | 1. communicate effectively in unfamiliar, stressful or non-standard situations | 3 |  |
|  | 1. communicate effectively in unexpected, stressful or non-standard situations using standard phraseology or plain English | 3 |  |
| C2.1 | Pre-flight actions and procedures |  |  |
|  | 1. obtain, interpret and apply information contained in the required pre-flight operational documentation, including the following: |  |  |
|  | 1. weather forecasts | 3 |  |
|  | 1. identify all relevant radio and navigation aid facilities to be used during the flight (if applicable) | 3 |  |
|  | 1. determine the suitability of the forecast weather conditions for the proposed flight | 3 |  |
| A3.7 | Local area airspace |  |  |
|  | 1. using an appropriate chart, for the local area and circuit area: |  |  |
|  | 1. identify geographical features | 3 |  |
|  | 1. identify geographical limits | 3 |  |
|  | 1. identify restricted, controlled and uncontrolled airspace areas | 3 |  |
|  | 1. state local airspace limits | 3 |  |
|  | 1. identify the transit route between the departure aerodrome and training area | 3 |  |
|  | 1. identify the geographical limits of the training area | 3 |  |
|  | 1. identify aerodromes and landing areas within the local area | 3 |  |
|  | 1. maintain orientation and pinpoint location by using geographical features and a local area chart | 3 |  |
|  | 1. transit from the circuit area and transit to the designated training area | 3 |  |
|  | 1. operate safely within a transit lane (if applicable) | 3 |  |
|  | 1. remain clear of restricted, controlled and other appropriately designated airspace | 3 |  |
|  | 1. operate safely in the vicinity of local aerodromes and landing areas | 3 |  |
|  | 1. transit from the designated training area to the circuit area | 3 |  |
|  | 1. set QNH appropriately | 3 |  |
|  | 1. correctly determine which runway is to be used for landing | 3 |  |
|  | 1. ensure runway is serviceable and available | 3 |  |
|  | 1. position aircraft for arrival into the circuit | 3 |  |
| A5.1 | Enter and recover from stall |  |  |
|  | 1. perform stalling pre-manoeuvre checks | 2 |  |
|  | 1. recognise symptoms of a stall | 2 |  |
|  | 1. control the aeroplane by trimming and balancing accurately for slow flight and then applying the required pitch, roll and yaw inputs to enter and recover from the following: |  |  |
|  | 1. slow flight where initial symptoms of a stall become evident | 2 |  |
|  | 1. stall, recovering without application of power | 2 |  |
|  | 1. stall, recovering with full power applied (not required for multi-engine aeroplanes) | 2 |  |
|  | 1. stall under the following conditions: |  |  |
|  | 1. straight and level flight | 2 |  |
|  | 1. climbing flight (not required for multi-engine aeroplanes) | 2 |  |
|  | 1. descending flight (not required for multi-engine aeroplanes) | 2 |  |
|  | 1. approach to land configuration | 2 |  |
|  | 1. turning flight (not required for multi-engine aeroplanes) | 2 |  |
|  | 1. perform stall recovery including the following: |  |  |
|  | 1. reduce angle of attack | 2 |  |
|  | 1. prevent yaw | 2 |  |
|  | 1. use available power and height to increase the aircraft energy state | 2 |  |
|  | 1. avoid secondary stall | 2 |  |
|  | 1. re-establish desired flight path and aircraft control with balanced control application | 2 |  |
|  | 1. perform stall recovery in simulated partial and complete engine failure conditions | 2 |  |
|  | 1. perform stall recovery at simulated low altitude | 2 |  |
| 5.2 | Avoid spin  *(This element only applies to a single-engine aeroplane)* |  |  |
|  | 1. perform stalling pre-manoeuvre checks | 2 |  |
|  | 1. recognise wing drop at the stall | 2 |  |
|  | 1. from balanced flight, recover from stall in the attitudes and configurations most likely to cause a wing drop | 2 |  |
|  | 1. perform recovery where the aeroplane exhibits a tendency to drop a wing at the stall, in accordance with 5.1(d) | 2 |  |

\*Enter the performance standard achieved if it is different to that required

Where it has not been possible to introduce performance criteria or the trainee has not achieved the required standard, the performance criteria must be covered during the next lesson. Enter these performance criteria in the lesson record for the subsequent lesson.

### Consolidation and/or Remedial Training

| MOS Reference | Lesson Content (Elements & Performance Criteria) | Performance  Standard | |
| --- | --- | --- | --- |
| Required | Achieved |
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### Debriefing

| Content |
| --- |
| * Training review and outcomes achieved against lesson objectives and the Part 61 MOS competency standards * Recommendations for next lesson (including any carryover/remedial training) * Trainee preparation for next lesson * Training record completion and sign off |

| Comments and Outcomes | | |
| --- | --- | --- |
|  | | |
| Proceed to next training session? | Yes | No |

| Instructor’s signature & date | Trainee’s signature & date |
| --- | --- |
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