

UNIT 1.01 – GROUP A (3-AXIS) SYLLABUS

ELEMENT: 1. FLIGHT PREPARATION AND GROUND HANDLING

| CODE: FP | Before Solo | Pilot Certificate | Inst Rating |
|--|-----------------------|-----------------------|-----------------------|
| 1.1 Complete pre and post flight administration | | | |
| <ul style="list-style-type: none"> • Daily and pre-flight inspection conducted including checking of fluid levels and aeroplane serviceability • Aeroplane is prepared for flight-untied or moved to appropriate start up area • Equipment and documentation as required by legislation is identified and secured in the aeroplane, and internal and external checks are completed in accordance with approved checklist • Aeroplane take-off and landing performance and weight and balance is calculated in accordance with the aeroplane Flight Manual for the proposed operation and ambient conditions • Pre and post flight logbook and flight administration is completed in accordance with Technical manual and/or Operations manual | 3 3 3 3 3 | 2 2 2 2 2 | 1 1 1 1 1 |
| 1.2 Cockpit familiarisation | | | |
| <ul style="list-style-type: none"> • Aeroplane instruments, use of adjustable items and emergency equipment use | 3 | 2 | 1 |
| 1.3 Fuel System. | | | |
| <ul style="list-style-type: none"> • Components of fuel system | 3 | 2 | 1 |
| 1.4 Plan Fuel Requirements | | | |
| <ul style="list-style-type: none"> • Flight, (holding and alternate – when appropriate) fuel determined. • Fuel reserves determined. • Total fuel requirement determined. | 3 3 3 | 2 2 2 | 1 1 1 |
| 1.5 Refuel aeroplane | | | |
| <ul style="list-style-type: none"> • Aeroplane is refuelled in accordance with Flight Manual, health and safety and local requirements. | 3 | 2 | 1 |
| 1.6 Perform checks as appropriate | | | |
| <ul style="list-style-type: none"> • Pre-start, after start, taxiing and run-up checks • Vital actions before take-off, checks during and after take-off, climb or descend checks • Pre-landing and after landing checks • Pre-shut down and after shut down checks • Aeroplane secured after flight, post-flight checks | 3 3 3 3 3 | 2 2 2 2 2 | 1 1 1 1 1 |
| 1.7 Taxiing aeroplane | | | |

| | | | |
|--|---|---|---|
| • Lookout and situational awareness | 3 | 2 | 1 |
| • Directional control and turning, including manoeuvring in confined spaces | 3 | 2 | 1 |
| • Effect of wind with regard to positioning of controls | 3 | 2 | 1 |
| • Propeller care and consideration of prop wash and slipstream | 3 | 2 | 1 |
| • Ground surface and slope considerations | 3 | 2 | 1 |
| • Appropriate taxiing speed | 3 | 2 | 1 |
| • Emergency situations including loss of steering, brakes or other emergencies are managed in accordance with Flight Manual. | 3 | 2 | 1 |
| 1.8 Procedures | | | |
| • Taxi clearance or call is obtained or broadcast as applicable | 3 | 2 | 1 |
| • Correct airmanship demonstrated | 3 | 2 | 1 |
| • Approved marshalling signals are utilised | 3 | 2 | 1 |

ELEMENT: 2. RADIO EQUIPMENT AND PROCEDURES

| CODE: FR | Before Solo | Pilot Certificate | Inst Rating |
|--|-------------|-------------------|-------------|
| 2.1 Radio equipment | | | |
| • Familiarisation with radio equipment | 3 | 2 | 1 |
| • Familiarisation with intercom | 3 | 2 | 1 |
| • Familiarisation with transponder (if applicable) | 3 | 2 | 1 |
| 2.2 Procedures | | | |
| • Radio use and procedures | 3 | 2 | 1 |

ELEMENT: 3. EFFECT OF CONTROLS

| CODE: EC | Before Solo | Pilot Certificate | Inst Rating |
|---|--------------------------------------|--------------------------------------|--------------------------------------|
| 3.1 Airmanship considerations | | | |
| <ul style="list-style-type: none"> • Lookout • Situational awareness • Handover and take over procedures • Follow me through procedures | 3 3 3 3 | 2 2 2 2 | 1 1 1 1 |
| 3.2 Primary effects | | | |
| <ul style="list-style-type: none"> • Elevator • Aileron • Rudder | 3 3 3 | 2 2 2 | 1 1 1 |
| 3.3 Secondary and further effects | | | |
| <ul style="list-style-type: none"> • Further effect of elevator • Secondary effect of aileron • Secondary effect of rudder | 3 3 3 | 2 2 2 | 1 1 1 |
| 3.4 Ancillary controls and additional effects | | | |
| <ul style="list-style-type: none"> • Effect of airspeed • Effect of slipstream • Effect of power • Control response at varying speeds and power settings • Control response relative to aeroplane axis at any attitude • Trim system • Effects of flap (if fitted) • Instrument indications | 3 3 3 3 3 3 3 3 | 2 2 2 2 2 2 2 2 | 1 1 1 1 1 1 1 1 |

SYLLABUS OF FLIGHT TRAINING

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ELEMENT: 4. STRAIGHT AND LEVEL

| CODE: SL | Before Solo | Pilot Certificate | Inst Rating |
|---|-------------|-------------------|-------------|
| 4.1 Airmanship considerations | | | |
| • Lookout | 3 | 2 | 1 |
| • Use of clock code | 3 | 2 | 1 |
| • Situational awareness | 3 | 2 | 1 |
| • Scanning and work cycle to ensure correct management of S & L | 3 | 2 | 1 |
| • Identification of training area boundaries | 3 | 2 | 1 |
| 4.2 Maintain straight and level flight | | | |
| • Straight and level - normal cruise (adjusting for heading or height deviations, or by instructor's direction) | 3 | 2 | 1 |
| • Straight and level - varying airspeeds (adjusting for heading or height deviations, or by instructor's direction) | 3 | 2 | 1 |
| • Balance technique | 3 | 2 | 1 |
| • Trim technique | 3 | 2 | 1 |
| • Stability considerations - lateral and longitudinal | 3 | 2 | 1 |

ELEMENT: 5. CLIMBING AND DESCENDING

| CODE: CD | Before Solo | Pilot Certificate | Inst Rating |
|--|-------------|-------------------|-------------|
| 5.1 Airmanship | | | |
| • Lookout prior to entering climb or descent | 3 | 2 | 1 |
| • Lookout and engine monitoring during climb or descent manoeuvres | 3 | 2 | 1 |
| • Situational awareness | 3 | 2 | 1 |
| 5.2 Climbing aeroplane | | | |
| • Correct technique for climb entry | 3 | 2 | 1 |
| • Maintenance of required climb performance | 3 | 2 | 1 |
| • Return to straight and level | 3 | 2 | 1 |
| • Effect of flap | 3 | 2 | 1 |
| • Normal/cruise climb | 3 | 2 | 1 |
| • Best rate of climb | 3 | 2 | 1 |
| • Best angle of climb | 3 | 2 | 1 |
| 5.3 Descending aeroplane | | | |
| • Correct technique for descent entry | 3 | 2 | 1 |
| • Maintenance of required descent performance | 3 | 2 | 1 |
| • Return to straight and level | 3 | 2 | 1 |
| • Effect of flap | 3 | 2 | 1 |
| • Glide descent | 3 | 2 | 1 |
| • Cruise descent | 3 | 2 | 1 |
| • Emergency descent | 3 | 2 | 1 |

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ELEMENT: 6. TURNING

| CODE: TN | Before Solo | Pilot Certificate | Inst Rating |
|--|----------------------------|----------------------------|----------------------------|
| 6.1 Airmanship | | | |
| <ul style="list-style-type: none"> Lookout prior to entering turn, during turn and prior to exit Airframe limitations Situational awareness | 3 3 3 | 2 2 2 | 1 1 1 |
| 6.2 Level Turns | | | |
| <ul style="list-style-type: none"> Entry / exit technique with due regard to adverse aileron yaw Maintenance of turn performance Exit technique to specific geographic feature or compass heading Turns (30° AoB) Turns (45° AoB) Turns (60° AoB as appropriate) | 3 3 3 3 3 3 | 2 2 2 2 2 2 | 1 1 1 1 1 1 |
| 6.3 Climbing turns | | | |
| <ul style="list-style-type: none"> Climbing turns (15° AoB) Climbing turns - effect on climb rate at bank angles >15° AoB | 3 3 | 2 2 | 1 1 |
| 6.4 Descending turns | | | |
| <ul style="list-style-type: none"> Medium descending turns (30° AoB) Steep descending turns (45° AoB) | 3 3 | 2 2 | 1 1 |

ELEMENT: 7. STALLING

| CODE: ST | Before Solo | Pilot Certificate | Inst Rating |
|--|-----------------------|--------------------------|-----------------------|
| 7.1 Airmanship | | | |
| <ul style="list-style-type: none"> • Pre manoeuvre checks carried out including height considerations / limitations • Airspace cleared prior to each stall • Airframe limitations • Appropriate orientation • Situational awareness | 3 3 3 3 3 | 2 2 2 2 2 | 1 1 1 1 1 |
| 7.2 Stall and recover aeroplane with or without flaps (if fitted) | | | |
| <ul style="list-style-type: none"> • Correct entry technique from straight & level with and without flap • Recognise symptoms of approaching stall and pre-stall recovery (all configurations) • Recognise developed stall and post-stall recovery (all configurations) - with and without power • Minimum height loss during recovery • Correct recovery technique when wing drops | 3 3 3 3 3 | 2 2 2 2 2 | 1 1 1 1 1 |
| 7.3 Stall and recover aeroplane in various attitudes with or without flaps and with various power settings | | | |
| <ul style="list-style-type: none"> • Correct entry technique for stall in nominated configuration • Recognise symptoms of approaching stall and pre-stall recovery (all configurations) • Correct recovery technique - with power (if available) • Minimum height loss during recovery | 3 3 3 3 | 2 2 2 2 | 1 1 1 1 |
| 7.4 Demonstration of stall entry at greater than 1G | | | |
| <ul style="list-style-type: none"> • Critical angle of attack is exceeded at a higher airspeed | - | - | 1 |

ELEMENT: 8. CIRCUITS

| CODE: CT | Before Solo | Pilot Certificate | Inst Rating |
|--|--|--|--|
| 8.1 Airmanship | | | |
| <ul style="list-style-type: none"> • Effects of ambient weather conditions and fly neighbourly matters • Circuit traffic levels and appropriate spacing • Situational awareness - including circuit / inbound / outbound traffic • Appropriate entry and exit runway procedures | 3 3 3 3 | 2 2 2 2 | 1 1 1 1 |
| 8.2 Conduct circuits | | | |
| <ul style="list-style-type: none"> • Normal circuit • Low level circuit | 3 3 | 2 2 | 1 1 |
| 8.3 Take-offs and approaches / landings | | | |
| <ul style="list-style-type: none"> • Normal take-off • Crosswind take-off • Short field take-off • Soft field take-off • Glide approach and landing • Powered approach and landing • Cross wind approach and landing • Short field approach and landing • Full stop landing • Touch and go landing • Stop and go landing • Flapless approach and landing (as applicable) | 3 3 3 3 3 3 3 3 3 3 3 3 | 2 2 2 2 2 2 2 2 2 2 2 2 | 1 1 1 1 1 1 1 1 1 1 1 1 |
| 8.4 Short field circuits | | | |
| <ul style="list-style-type: none"> • Take off with due regard for short field procedures • Appropriate circuit profile and procedures • Powered approach and landing • Brakes applied and controlled as appropriate | 3 3 3 3 | 2 2 2 2 | 1 1 1 1 |
| 8.5 Emergencies and precautions in the circuit | | | |
| <ul style="list-style-type: none"> • Aborted take off • Engine failure after take off • Engine failure elsewhere in circuit • Partial power failure and abnormal instrument indications • Ancillary control failures including flaps, trim, etc. • Flight instrument failures • Undercarriage or tyre problems • Considerations due to animal hazards • Engine management considerations | 3 3 3 3 3 3 3 3 3 | 2 2 2 2 2 2 2 2 2 | 1 1 1 1 1 1 1 1 1 |

| 8.6 Go-around procedures | | | |
|--|---|---|---|
| • Procedure from base leg | 3 | 2 | 1 |
| • Procedure from final approach | 3 | 2 | 1 |
| • Recovery from an unstable approach | 3 | 2 | 1 |
| • Procedure from overshoot or undershoot position | 3 | 2 | 1 |
| • Procedure after bounce or balloon | 3 | 2 | 1 |
| • Recognition and appropriate procedure from pilot induced oscillation | 3 | 2 | 1 |
| • Awareness of engine management considerations | 3 | 2 | 1 |

ELEMENT: 9. FORCED LANDING AND PRECAUTIONARY SEARCH

| CODE: FL | Before Solo | Pilot Certificate | Inst Rating |
|---|--------------------|--------------------------|--------------------|
| 9.1 Airmanship | | | |
| • Lookout | 3 | 2 | 1 |
| • Situational awareness | 3 | 2 | 1 |
| • Engine clearing / warming | 3 | 2 | 1 |
| 9.2 Forced landings | | | |
| • Initial actions | 3 | 2 | 1 |
| • Best glide speed selected and trim | 3 | 2 | 1 |
| • Landing area general selection | 3 | 2 | 1 |
| • Radio broadcast (mayday) | 3 | 2 | 1 |
| • Detailed trouble checks | 3 | 2 | 1 |
| • Engine restart (if applicable) and management considerations | 3 | 2 | 1 |
| • Activation of PLB/ELT | 3 | 2 | 1 |
| • Passenger brief | 3 | 2 | 1 |
| • Shutdown checks (as appropriate) | 3 | 2 | 1 |
| • Go-around height when undertaking training | 3 | 2 | 1 |
| 9.3 Sideslip aeroplane | | | |
| • Aerodynamic or airframe limitations considered and complied with | 3 | 2 | 1 |
| • Correct entry technique utilised | 3 | 2 | 1 |
| • Slip conducted with or without flaps (subject to Flight Manual limitations) | 3 | 2 | 1 |
| • Slip is maintained and monitored throughout manoeuvre | 3 | 2 | 1 |
| • Slipping turns | 3 | 2 | 1 |
| • Correct exit technique utilised | 3 | 2 | 1 |
| 9.4 Precautionary search and landing | | | |
| • Determine need | 3 | 2 | 1 |
| • Advice to ATS or other aeroplanes (as applicable) | 3 | 2 | 1 |
| • Field selection | 3 | 2 | 1 |
| • Inspection runs | 3 | 2 | 1 |
| • Go-around height for training purposes | 3 | 2 | 1 |

ELEMENT: 10. OPERATIONS IN THE TRAINING AREA

| CODE: TA | Before Solo | Pilot Certificate | Inst Rating |
|---|--------------------|--------------------------|--------------------|
| 10.1 Airmanship | | | |
| • Approval and duration of flight is determined | 3 | 2 | 1 |
| • Situational awareness of traffic and weather requirements | 3 | 2 | 1 |
| • Fuel requirements | 3 | 2 | 1 |
| • Lost procedures (if appropriate) | 3 | 2 | 1 |
| • Training area boundaries | 3 | 2 | 1 |
| 10.2 Transit to and from training area | | | |
| • Circuit departure procedures | 3 | 2 | 1 |
| • Circuit joining procedures | 3 | 2 | 1 |
| • Transit to and from training area | 3 | 2 | 1 |

ELEMENT: 11. MANAGE ABNORMAL SITUATIONS AND EMERGENCIES

| CODE: EO | Before Solo | Pilot Certificate | Inst Rating |
|--|--------------------|--------------------------|--------------------|
| 11.1 Control systems | | | |
| • Procedures for flight control loss or malfunction | 3 | 2 | 1 |
| • Procedures for ancillary control loss or malfunction | 3 | 2 | 1 |
| • Airframe including flaps or hatches, etc. | 3 | 2 | 1 |
| 11.2 Other abnormal or emergency situations | | | |
| • Fire, smoke or fumes | 3 | 2 | 1 |
| • Recovery from unusual attitudes | 3 | 2 | 1 |
| • Spiral dive recognition and recovery | 3 | 2 | 1 |
| • Collision avoidance / controllability checks after a collision | 3 | 2 | 1 |
| • Loss of radio or intercom transmissions | 3 | 2 | 1 |
| • Airspeed indicator, altimeter or other instrument malfunction | 3 | 2 | 1 |
| • Ditching (type specific) | 3 | 2 | 1 |

-End of Group A Syllabus-