

SECTION 6 FLIGHT ACTIVITY ENDORSEMENT STANDARDS

F AE-1 Aerobatics — 3,000 ft AGL

1 Unit description

This unit describes the skills and knowledge required to perform aerobatic manoeuvres not below 3,000 ft AGL.

2 Elements and performance criteria

2.1 FAE-1.1 – Prepare for aerobatic flight

- (a) select suitable airspace that allows the completion of all aerobatic manoeuvres above the authorised minimum altitude;
- (b) perform pre-manoeuve checks and select appropriate aircraft configuration;
- (c) maintain lookout using a systematic scan technique at a rate determined by traffic density, visibility or terrain.

2.2 FAE-1.2 – Perform looping manoeuvre

- (a) pitch the aircraft vertically at a continuous rate through 360° in balanced flight, maintaining wings parallel to the Earth's horizon, positive 'g', without stalling and maintaining alignment with a nominated line feature from a nominated airspeed that will ensure completion of a loop;
- (b) comply with engine, airframe and physiological limitations;
- (c) observe entry and recovery heights.

2.3 FAE-1.3 – Perform rolling manoeuvre

- (a) roll the aircraft from a nominated airspeed around the fore and aft axis through 360° while maintaining direction and altitude, or a height loss appropriate to the aircraft type;
- (b) observe entry and recovery height.

2.4 FAE-1.4 – Perform stall turn-hammerhead (vertical yaw reversal)

- (a) pitch aircraft from a nominated airspeed to the vertical in balanced flight with the wings parallel to the horizon and terminate the pitch at the vertical;
- (b) maintain the aircraft vertical and yaw through 180°, descending vertically in balanced flight and recover the aircraft from the dive to straight and level flight, aligned with a nominated line feature 180° to the original heading;
- (c) observe entry and recovery height.

2.5 FAE-1.5 – Recover from unusual attitudes

- (a) recover aircraft to controlled flight, in the height available, from any attitude, bank angle or speed within the limitations of the aircraft;
- (b) recover aircraft to controlled flight, in the height available from any inverted negative 'g' attitude, bank angle or speed within the limitations of the aircraft.

2.6 FAE-1.6 – Recover from spin

- (a) perform pre-manoeuve checks;
- (b) enter and establish an upright spin;
- (c) identify upright spin and direction of yaw;
- (d) close throttle;
- (e) stop yaw;
- (f) unstall wing by reducing AOA (aeroplane);
- (g) recover to controlled flight;