

2008 Proposed New Schedule

Advanced

A1 Vertical Rectangle with 360 degree pirouettes

Model takes off from central helipad and ascends vertically to eye level and stops. Model then flies backwards to one of the flags (1 or 2) and stops. Model then climbs vertically 4 metres and stops. Model performs a 360 degree pirouette in either direction and stops. Model then flies forwards 10 metres to opposite flag and stops. Model performs another 360 degree pirouette in either direction and stops. Model then descends 4 metres and stops. Model flies backwards to central helipad and stops. Model then descends to a landing on the central helipad.

Points will be deducted for the following reasons:

1. Model pauses during the ascents and descents.
2. Model did not maintain lateral position during pirouettes.
3. Model did not land smoothly on the helipad.

A2 Inverted triangle with opposite 180 degree pirouettes

Model takes off from central helipad and ascends vertically to eye level and stops. Model then climbs backwards at 45 degrees to an altitude of 5 m above eye level directly over a flag (1 or 2) and stops. Model performs a 180 degree pirouette in either direction and stops. Model then flies backwards 10 metres to opposite flag and stops. Model performs a 180 degree pirouette in either direction and stops. Model then descends backward at 45 degrees to eye level directly over central helipad and stops and descends to a landing on the central helipad.

Points will be deducted for the following reasons:

1. Ascent and / or descent was not 45 degrees.
2. Model did not maintain lateral position during pirouettes.

A3 Vertical circle

Model aircraft takes off vertically from helipad and stops at eye level. Model flies forward into an ascending vertical circle (5m diameter) stopping over the helipad at eye level. Model then descends to a landing on the helipad.

1. Shape was not round
2. Model pauses during circle

A4 Inside Loop - upwind/upwind

Model flies straight and level for a minimum of 10 metres then climbs for a loop

while maintaining the nose in the direction of flight. The model ends the loop and flies straight again and horizontal for a minimum of 10 metres on the same heading and same altitude as the start of the manoeuvre.

Points will be deducted for the following reasons:

1. The loop is not round.
2. The model did not maintain the same heading throughout the manoeuvre.
3. The model started and finished the manoeuvre at different attitudes.

A5 Slow Roll - downwind/downwind

Model flies straight and level for a minimum of 10 metres. At a constant altitude the model starts a slow roll in either direction around an axis which coincides with the line of flight. The model continues this roll in the same direction until it flies horizontally again and at a constant altitude for a minimum of 10 metres.

Points will be deducted for the following reasons:

1. The roll should be a minimum duration of 3 seconds.
2. The model loses altitude during the roll.
3. The model finishes the manoeuvre on a different heading from that on which it started the manoeuvre.

A6 180 degree stall turn - upwind/downwind

Model flies straight and level for a minimum of 10 metres then climbs vertically with a smoothly rounded curve of 90°. When the vertical climb stops the model turns 180° around the yaw axis so that the nose points downward. While diving the model follows the same path as the climb and recovers to straight and level flight for a minimum of 10 metres.

Points will be deducted for the following reasons:

1. The model does not climb exactly vertical or does not end its vertical climb.
2. The model does not rotate exactly 180° and oscillates before diving.
3. The model finishes the manoeuvre on a different heading to that on which it started and manoeuvre.

A7 Pushover - Upwind/Upwind

Model flies straight and level for a minimum of 10 metres then enters a 90° vertical ascent. When model comes to a stop nose of model is pushed forward 90° to level and upright position and stops. Nose of model is then pushed over 90° again to vertical (nose down) position followed by vertical descent and 90° pullout back to straight and level flight for a minimum of 10 metres.

Points will be deducted for the following reasons:

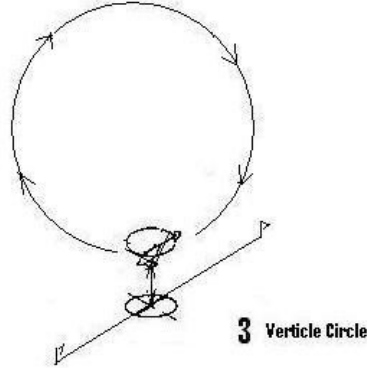
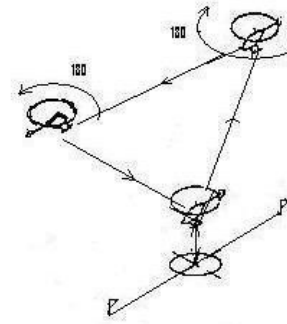
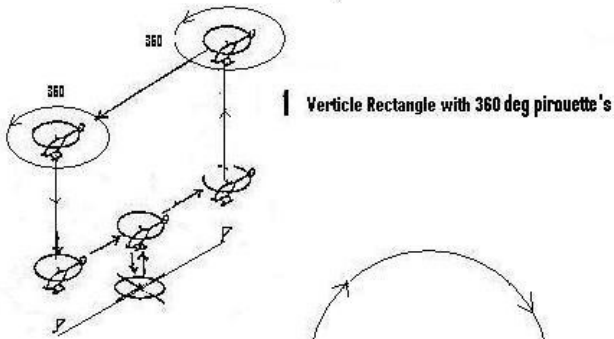
1. Vertical segments were not parallel.
2. Model drifted toward or away from the judges.

3. Pushovers were not 90 degrees.

A8 Straight line autorotation - Upwind

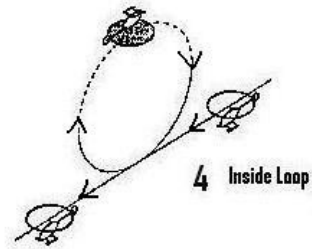
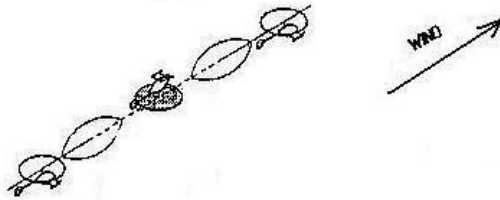
Model aircraft flies at a minimum altitude of 20m. As the model crosses the line which descends at 45 degrees from the height of the model to the central helipad, the model aircraft must be in the auto rotation state, the engine must be off at this point and the model aircraft must be descending. The descending rate must be constant from this point to a point just before touchdown on the helipad.

Advanced Schedule



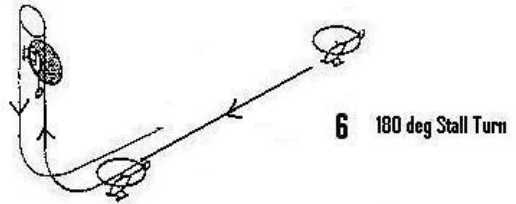
2 Inverted Triangle with 180 deg pirouette's

3 Verticle Circle

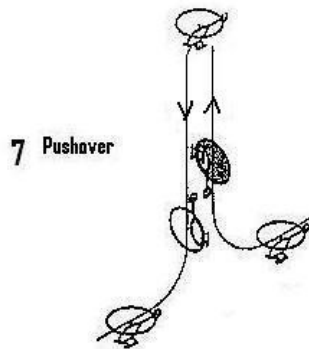


5 Slow Roll

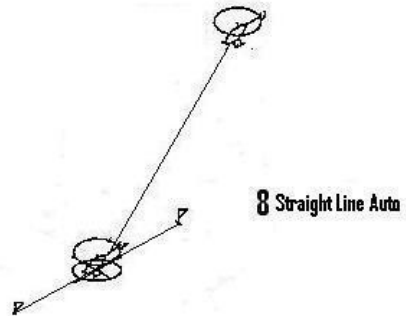
4 Inside Loop



6 180 deg Stall Turn



7 Pushover



8 Straight Line Auto