International Radio Control Helicopter Association
Pilot Proficiency Program
Level III 22 October 1998

INTERNATIONAL
RADIO CONTROLLED
HELICOPTER
ASSOCIATION

Level III is an advanced intermediate level of proficiency and completion of this level takes the pilot to the level of a pilot capable of performing all Upright Flight skills. Intrinsic to this level is successfully completing all components of both Level II, and I and then advancing to the ability to control the Helicopter in all upright orientations.

Maneuver Description

A. Complete Level I & II

B. Nose-in - Hover
   1. Take-off from the landing area (a 36" or 1 meter circle) to an eye-level hover; hold momentarily.
   2. Either Pirouette or Fly and stop in the Nose-in condition, the preferred method is to Pirouette to nose-in.
   3. Hold in the Stationary Nose-in Hover for one (1) minute.
   4. The Stationary Hover should give the appearance of being under total control.
   5. Land with the skids completely within the landing area.

C. Nose-in - Circle
   1. Take-off, move into a Nose-in Hover, hold hover for five (5) seconds.
   2. Move the helicopter to the right, keeping the tail pointed away from the pilot, in a circle around the pilot, until the helicopter is hovering over the take-off point.
   3. Move the Helicopter to the left, repeating step 2 above.

D. Nose-in - Take-off
   1. With the Helicopter in the landing area, and the pilot standing a SAFE distance, in front of the helicopter.
   2. Take-off into a Nose-in hover

E. Nose-in - Landing
   1. From a Stationary Nose-in Hover.
   2. Land while still Nose-in, with the skids completely within the landing area.

C/o AMA
P.O.Box 3028
Muncie, IN 47302-1028

Maneuver Description Continued

F. Basic Aerobatics (Unusual Attitudes Training)
    1. 540 Stall Turn
        a. Start by performing a Stall Turn similar to that in Level II.
        b. Instead of rotating the helicopter only 180 degrees this time rotate the helicopter 540 degrees (1-1/2 revolutions).
        c. This maneuver must be done both to the right and the left of the pilot.
    2. Horizontal Roll
        a. Helicopter flying straight and level.
        b. Then rolls slowly through one (1) complete revolution.
        c. This maneuver must be done from the right to the left and from the left to the right.
    3. Immelmann Turn
        a. Helicopter flying straight and level.
        b. Then perform 1/2 loop, to inverted.
        c. Then helicopter performs 1/2 roll to upright.
        d. Fly straight and level.
        e. This maneuver must be done starting from both the right and the left of the pilot.
    4. 1/2 Cuban Eight
        a. Helicopter flying straight and level.
        b. Then perform 5/8 loop, helicopter should be inverted on a 45 degree down line.
        c. Then helicopter performs 1/2 roll to upright.
        d. Level out and fly straight and level.
        e. This maneuver must be done starting from both the right and the left of the pilot.

    5. Loop w/Pirouette at the Top
        a. Start by performing a Loop similar to that in Level II.
        b. When the helicopter is inverted add enough negative pitch to support the helicopter and remove the Aft cyclic control.
        c. Perform a Pirouette while inverted.
        d. Complete the Loop as normal.
        e. This maneuver must be done once with the Pirouette to the right and once with the Pirouette to the left.

Maneuver Description Continued

F. Basic Aerobatics - Continued

6. Flying Circle
    a. Starting from a tail-in hover, rotate the helicopter 90 degree.
    b. Fly in a circle back to the starting point, while maintaining constant altitude, and speed.
    c. This maneuver must be done circling both clockwise and counter-clockwise.
7. Figure of Eight - Nose-In, Tail-In
    a. Take-off to eye-level, hold momentarily, hover the helicopter out to a SAFE distance and height before starting this maneuver.
    b. While maintaining constant altitude, speed and heading begin a circle to either the right or the left with the tail of the helicopter pointing to the center of the circle.
    c. As the helicopter reaches the starting point continue hovering, but in a circle in the opposite direction from before and with the nose of the helicopter pointing to the center of the circle.
    d. This maneuver must be done starting the nose-in circle both clockwise and counter-clockwise.
8. Autorotation Landing
    a. Starting from an altitude of no less than twenty (20) meters and on a heading parallel to the flight line, start your Autorotation.
    b. Try for a smooth constant rate of descent directly to a one (1) meter landing circle.
    c. The tail blades must stop before the helicopter touches the ground.
    d. All of the helicopters landing skids must be within the landing circle.
    e. This maneuver must be done starting from the right and from the left of the pilot. The pilot may stand anywhere they wish during this maneuver.

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		Witness #1	Witness #2
A.	Completed Level I & II	_____	_____
B.	Nose-in - Hover	_____	_____
C.	Nose-in - Circle	_____	_____
D.	Nose-in - Take-off	_____	_____
E.	Nose-in - Landing	_____	_____
F.	Basic Aerobatics		
	1. 540 Stall Turn	_____	_____
	2. Horizontal Roll	_____	_____
	3. Immelmann Turn	_____	_____
	4. ½ Cuban Eight	_____	_____
	5. Loop w/Pirouette at the Top	_____	_____
	6. Flying Circle	_____	_____
	7. Figure of Eight - Nose-in, Tail-in	_____	_____
	8. Autorotation Landing	_____	_____

Name:_____ IRCHA #: _____ Date: _____

Helicopter(s), Engine & radio used for this Level: _____

_____

Email:_____

Witness #1: _____ IRCHA #: _____ PPP Level: _____

Witness #2: _____ IRCHA #: _____ PPP Level: _____

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