



## **Pilot Proficiency Program**

### **Level III**

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.

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**Maneuver Description**

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.

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**Maneuver Description**

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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	<u>Witness #1</u>	<u>Witness #2</u>
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: \_\_\_\_\_

\*\*\* Please keep a copy of this for your records \*\*\*