

## RCHN Pilot Proficiency Program

The pilot must state the maneuver(s) for which they would like to be tested prior to each attempt. Each maneuver can be attempted a total of three times per flight. If the maneuver cannot be executed within three attempts, then the pilot must wait until the next flight to test for that maneuver again.

### 179 TOTAL MANEUVERS

#### Level 1: Beginner (9 Maneuvers/9 Cumulative)

Maneuver ID	Title	Variations	Witness
1.1	Take-Off (Tail-In)	N/A	
1.2	Stationary Hover (Tail-In)	N/A	
1.3	Lateral Hovering (Tail-In)	N/A	
1.4	Multi-Level Hover (Tail-In)	N/A	
1.5	45-Degree Side Hovering	N/A	
1.6	90-Degree Side Hovering (Side-In)	N/A	
1.7	Diagonal Hovering (Tail-In)	N/A	
1.8a	Constant-Heading Circle	CW	
1.8b		CCW	

#### Level 2: Basic Sport (16 Maneuvers/25 Cumulative)

Maneuver ID	Title	Variations	Witness
2.0	Complete Level 1	N/A	
2.1a	Constant-Heading Figure 8	Forward	
2.1b		Reverse	
2.2a	Circuits	CW	
2.2b		CCW	
2.3a	Figure 8	Forward	
2.3b		Reverse	
2.4a	Side-In Landing	Left	
2.4b		Right	
2.5a	Pirouette	Left	
2.5b		Right	
2.6a	Stall Turn	Left-Side/Left-Piro	
2.6b		Left-Side/Right-Piro	
2.6c		Right-Side/Left-Piro	
2.6d		Right-Side/Right-Piro	
2.7a	Inside Loop	Left	
2.7b		Right	

#### Level 3: Intermediate Sport (30 Maneuvers/55 Cumulative)

Maneuver ID	Title	Variations	Witness
3.0	Complete Levels 1-2	N/A	

3.1	Stationary Hover (Nose-In)	N/A	
3.2	Take-Off (Nose-In)	N/A	
3.3	Constant-Heading Circle (Nose-In)	N/A	
3.4	Landing (Nose-In)	N/A	
3.5a	540-Degree Stall Turn	Left-Side/Left-Piro	
3.5b		Left-Side/Right-Piro	
3.5c		Right-Side/Left-Piro	
3.5d		Right-Side/Right-Piro	
3.6a	Flying Roll	Left-Side/Left-Roll	
3.6b		Left-Side/Right-Roll	
3.6c		Right-Side/Left-Roll	
3.6d		Right-Side/Right-Roll	
3.7a	Loop with Pirouette at Top	Left-Side/Left-Piro	
3.7b		Left-Side/Right-Piro	
3.7c		Right-Side/Left-Piro	
3.7d		Right-Side/Right-Piro	
3.8a	Immelmann	Left-Side/Left-Roll	
3.8b		Left-Side/Right-Roll	
3.8c		Right-Side/Left-Roll	
3.8d		Right-Side/Right-Roll	
3.9a	1/2 Cuban 8	Left-Side/Left-Roll	
3.9b		Left-Side/Right-Roll	
3.9c		Right-Side/Left-Roll	
3.9d		Right-Side/Right-Roll	
3.10a	Flying Circle	CW	
3.10b		CCW	
3.11a	Center-Heading Figure 8	CW	
3.11b		CCW	
3.12a	Autorotation Landing	Left	
3.12b		Right	

<b>Level 4: Advanced Sport (34 Maneuvers/89 Cumulative)</b>			
<b>Maneuver ID</b>	<b>Title</b>	<b>Variations</b>	<b>Witness</b>
4.0	Complete Levels 1-3	N/A	
4.1a	Sustained Inverted Flight	Left	
4.1b		Right	
4.2a	Sustained Inverted Hover	Nose-In	
4.2b		Tail-In	
4.2c		Nose-Left	
4.2d		Nose-Right	

4.3a	Inverted Pirouettes	CW	
4.3b		CCW	
4.4a	Inverted Figure 8	Forwards	
4.4b		Backwards	
4.5a	Two Consecutive Stationary Rolls	Tail-in/Left	
4.5b		Tail-in/Right	
4.5c		Nose-in/Left	
4.5d		Nose-in/Right	
4.6a	180-Degree Autorotation	Left	
4.6b		Right	
4.7a	Forward Flips	Tail-In	
4.7b		Nose-In	
4.7c		Nose-Left	
4.7d		Nose-Right	
4.8a	Backward Flips	Tail-In	
4.8b		Nose-In	
4.8c		Nose-Left	
4.8d		Nose-Right	
4.9a	Side Flips	Tail-in/Left	
4.9b		Tail-in/Right	
4.9c		Nose-in/Left	
4.9d		Nose-in/Right	
4.10a	Two Consecutive Stationary Flips	Tail-In/Forward	
4.10b		Tail-In/Backward	
4.10c		Nose-In/Forward	
4.10d		Nose-In/Backward	

<b>Level 5: Basic 3D (36 Maneuvers/125 Cumulative)</b>			
<b>Maneuver ID</b>	<b>Title</b>	<b>Variations</b>	<b>Witness</b>
5.0	Complete Levels 1-4	N/A	
5.1a	Sustained Backward Flight	Left	
5.1b		Right	
5.2a	Backward Figure Eight	Forward	
5.2b		Reverse	
5.3a	Backward Inside Loop	Tail-In	
5.3b		Nose-In	
5.3c		Nose-Left	
5.3d		Nose-Right	
5.4a	Traveling Backward Rolls	Left-Side/Left-Roll	
5.4b		Left-Side/Right-Roll	

5.4c		Right-Side/Left-Roll	
5.4d		Right-Side/Right-Roll	
5.5a	Sustained Backwards Inverted Flight	Left	
5.5b		Right	
5.6a	Backward Inverted Figure Eight	Forward	
5.6b		Reverse	
5.7a	Inverted Autorotation	Left	
5.7b		Right	
5.8a	Knife Edge Pirouette	Left-Side/Left-Roll/Left-Piro	
5.8b		Left-Side/Right-Roll/Right-Piro	
5.8c		Right-Side/Left-Roll/Left-Piro	
5.8d		Right-Side/Right-Roll/Right-Piro	
5.9a	Death Spiral	Left-Roll/Forward	
5.9b		Left-Roll/Backward	
5.9c		Right-Roll/Forward	
5.9d		Right-Roll/Backward	
5.10a	Tic-Tocs (Skids Out)	Nose-Up Elevator	
5.10b		Nose-Down Elevator	
5.10c		Nose-Left Aileron	
5.10d		Nose-Right Aileron	
5.11a	Vertical 8	Left-Side/Forward	
5.11b		Left-Side/Backward	
5.11c		Right-Side/Forward	
5.11d		Right-Side/Backward	
5.12a	Tumbles	Left-Side/Forward	
5.12b		Left-Side/Backward	
5.12c		Right-Side/Forward	
5.12d		Right-Side/Backward	

<b>Level 6: Intermediate 3D (26 Maneuvers/151 Cumulative)</b>			
<b>Maneuver ID</b>	<b>Title</b>	<b>Variations</b>	<b>Witness</b>
6.0	Complete Levels 1-5	N/A	
6.1a	Sideways Inside Loop	Tail-In/Left	
6.1b		Tail-In/Right	
6.1c		Nose-In/Left	
6.1d		Nose-In/Right	
6.2a	Sideways Outside Loop	Tail-In/Left	
6.2b		Tail-In/Right	
6.2c		Nose-In/Left	
6.2d		Nose-In/Right	

6.3a	Sideways Tumbles	Tail-In/Forward	
6.3b		Tail-in/Backward	
6.3c		Nose-In/Forward	
6.3d		Nose-In/Backward	
6.4a	Rainbows	Left-Side	
6.4b		Right-Side	
6.5a	Tic Tocs (Skids in)	Nose-Up Elevator	
6.5b		Nose-Down Elevator	
6.5c		Nose-Left Aileron	
6.5d		Nose-Right Aileron	
6.6a	4-Point tic Tocs (Skids out)	CW	
6.6b		CCW	
6.7a	Half-Pirouetting Flips	Left	
6.7b		Right	
6.8a	Mobius	Left	
6.8b		Right	
6.9a	Forward Rolling Circles	CW	
6.9b		CCW	

<b>Level 7: Advanced 3D (28 Maneuvers/179 Cumulative)</b>			
<b>Maneuver ID</b>	<b>Title</b>	<b>Variations</b>	<b>Witness</b>
7.0	Complete Levels 1-6	N/A	
7.1a	Pirouetting Inside Loop	Left-Side/Left-Piro	
7.1b		Left-Side/Right-Piro	
		Right-Side/Left-Piro	
		Right-Side/Right-Piro	
7.2a	Pirouetting Outside Loop	Left-Side/Left-Piro	
7.2b		Left-Side/Right-Piro	
		Right-Side/Left-Piro	
		Right-Side/Right-Piro	
7.3a	Pirouetting Figure 8	Forward/Left-Piro	
7.3b		Forward/Right-Piro	
7.3c		Reverse/Left-Piro	
7.3d		Reverse Right-Piro	
7.4a	Inverted Pirouetting Figure 8	Forward/Left-Piro	
7.4b		Forward/Right-Piro	
7.4c		Reverse/Left-Piro	
7.4d		Reverse Right-Piro	
7.5a	Double-Pirouetting Flips	Left	
7.5b		Right	

7.6a	4-Point Tic Tocs (Skids In)	CW	
7.6b		CCW	
7.7a	Traveling Double-Pirouetting Flips	Left-Piro/CW	
7.7b		Left-Piro/CCW	
7.7c		Right-Piro/CW	
7.7d		Right-Piro/CCW	
7.8a	Pirouetting Autorotation	Left	
7.8b		Right	
7.9a	Pirouetting Tic Tocs	Left	
7.9b		Right	