



## **HELICOPTER TRAINING INFORMATION BROCHURE (March 2011)**

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To The Aviation Enthusiast:

Thank you for your enquiry about helicopter training. You may be assured that you have chosen the finest basic and advanced helicopter training school in South Africa.

The information that follows is designed to answer the most popular questions, but please feel free to contact us should you have any additional questions.

### **WHAT QUALIFICATIONS ARE REQUIRED TO TRAIN AS A HELICOPTER PILOT?**

No formal qualifications are required to train as a helicopter pilot, and contrary to popular belief, NO previous flying experience is required before learning to fly helicopters. Due to the responsibility involved in flying, there are minimum age requirements, being 17 years for the Private Pilot's licence, and 18 years for the Commercial Pilots licence. The only other requirement is that you pass an aviation medical exam which requires only a reasonable level of fitness.

### **WHAT DO THE VARIOUS COURSES CONSIST OF?**

#### **Private Pilot Helicopter (PPL H)**

The Private Pilot licence is designed for those who wish to fly for pleasure rather than for a career.

The minimum requirements are:

- 17 years of age
- Aviation medical
- 50 Hours minimum flying time (including 15 hours of solo)
- Restricted radio licence and PPL Ground School
- PPL exams (These exams are done through the South African Civil Aviation Authority).

Note: the radio licence is done at Hover Dynamics

The PPL (H) course comprises both flying and a series of ground school subjects. These are designed to offer the student the handling skills required, together with a comprehensive understanding of the helicopter, leading to the award of a SACAA PPL (H) licence.



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The syllabus for the PPL (H) included herein indicates the exercises that will be covered both in the briefing room and in the air. Each lesson comprises between one and a half to two hours, with an equal amount of time spent on flying and briefing. Please note that the cost quoted per hour is for flying time only – all briefing time prior to and after flying is included at no additional cost.

The designated ground school subjects involve comprehensive briefing by an instructor/lecturer with some self-study on the part of the student. The students are examined using multi-choice papers.

The ground school subjects consist of: -

- Air Law and Operational Procedures.
- Meteorology
- Navigation
- Instruments
- Human Performance and Limitations
- Helicopter General and Principles of flight
- Flight Performance and Planning-Helicopter
- Radiotelephony Communications

Although this list may at first seem daunting, once a student has started the course, the ground school forms a logical and common sense part of the PPL (H) course.

We pride ourselves on the standard of instruction available here at Hover Dynamics and have found that the students find the one-to-one instruction more beneficial than a class structure. All our instructors are grade II's and III's with many having logged more than 1600 hours of instructional experience.

### **The Private Pilot's Licence Air Exercise Syllabus**

- |  |  |
|--|--|
| 1 Familiarization with helicopter.       | 17 Consolidating of skills learned to date.  |
| 2 Prep for flight & action after flight. | 18 Advanced hovering and manoeuvring.        |
| 3 Air experience.                        | 19 Precision transitions.                    |
| 4 Effect of controls in forward flight.  | 20 Quick stops.                              |
| 5 Attitude & power changes.              | 21 Tight circuits                            |
| 6 Straight & Level; Climbs & descents.   | 22 Steep turns                               |
| 7 Medium turns.                          | 23 Advanced auto-rotations                   |
| 8 Basic hover in-ground effect.          | 24 Limited-power operations.                 |
| 9 Lift-offs & touch-downs.               | 25 Transition in various wind directions     |
| 10 Hover & taxi out of wind.             | 26 Slope landings and take-offs.             |
| 11 Transitions.                          | 27 Confined area & out-of-ground effect ops. |
| 12 Circuit flying.                       | 28 Low Flying                                |
| 13 Vortex ring state.                    | 29 High altitude familiarization             |
| 14 Basic auto-rotations.                 | 30 Navigation                                |
| 15 Emergencies; engine-off landings.     |  |
| 16 First solo: (maximum of 2 circuits).  |  |



### **Frascas's Tru-flite Helicopter Simulator**

We at Hover Dynamics are proud to be the launch customer for the phenomenal Frasca Tru-flite helicopter simulator. This device is a type specific helicopter simulator which can be configured to the Robinson R22 or R44 helicopters. It is so true to life that at certain stages in your licence we can integrate the simulator into your normal training. This allows you to get to grip with some of the more difficult exercises in a completely safe training environment. The skill transfer from simulator to aircraft is amazing and will save you thousands of rand on your licence. This simulator is only available to Hover Dynamics students. Come and experience it for yourself, this is the Hover Dynamics difference.





### **Commercial Pilots Licence (CPL H)**

The Commercial Pilots licence is designed for those who wish to make a career of flying helicopters. The minimum requirements are:

- 18 years of age
- Aviation medical (Commercial)
- 200 hours of flying, (including the 50 hours from your PPL), of which 100 hours must be solo.
- General radio licence and CPL ground school
- CPL exams. (These exams are done through the South African Civil Aviation Authority).

### **WHAT AIRCRAFT WILL I TRAIN IN?**

Hover Dynamics does most ab-initio instruction in the Robinson R22 and/or R44 Helicopters. These are favoured aircraft world wide for training as they offer a solid foundation for the private pilot through to the commercial pilot. There is a weight restriction on each seat as shown in the price list.

### **WILL I BE ABLE TO HIRE THE AIRCRAFT THAT I TRAIN IN?**

This is a very important question and the answer at Hover Dynamics is a definite yes. If you have trained with us, then our aircraft are available for Hire & Fly at reduced rates.

### **HOW OFTEN SHOULD ONE FLY DURING TRAINING?**

This is entirely up to you, although you may want to discuss with your assigned flight instructor. Normally finances and work schedules determine the amount of flying that one can do. Flying time to obtain your PPL can be done in as little as 6 weeks. Generally the more frequently you fly the more consistent your progress will be, but you should enjoy your training rather than concentrate only on the end goal of attaining your PPL or CPL.

Please bear in mind that the 50 hours and 200 hours required respectively are minimum requirements and actual hours flown depend on individual abilities and progress.

### **HOW IS PAYMENT ARRANGED?**

All flights are charged according to the Hobbs meter which effectively is an hour meter connected to monitor engine running time and is measured in gradients of 0.1 – i.e. 6 minutes. Payment is strictly as you fly or payment in advance. Most of our clients tend to put down deposits of R10 000.00 to R15 000.00 and higher, and then fly the credit off. No flights will be allowed if the account is not in credit. Attached herewith are our price lists which show various options. These prices exclude your medical, all ground school courses that you are required to attend, and all SACAA exam and licence fees.



## **HOW DIFFICULT IS IT TO FLY HELICOPTERS?**

Flying helicopters takes some co-ordination, but nearly everyone can learn to fly them. The training syllabus is designed to take you through 35 exercises, each of which is designed as a building block. These exercises are taught in a logical sequence making learning to fly fun and as easy as possible.

## **HOW DO I START?**

Perhaps the best way for us to express what flying is about is to arrange a demonstration flight. The cost of the demonstration flight is R1450.00 on the R22, and R1850.00 on the R44 (VAT included), and is done by one of our qualified flight instructors. (The time flown can be logged toward your PPL).

We strongly recommend that you take one of our demonstration flights. You will be encouraged to take the controls under the supervision of one of our experienced instructors. This will give you a valuable insight into helicopter flying and will help you decide whether flying helicopters is something which interests you or not, as well as giving you an opportunity to discuss your licence with an instructor.

Please give us a call to book your demo flight!





## PRICE LIST

With effect from 07 March 2011

### **DEMONSTRATION FLIGHTS (duration approximately 20 minutes)**

R22 BETA II: R1450.00.      R44 RAVEN II: R1 850.00.      SIMULATOR: R650.00  
Above prices include VAT

### **R22 Beta II ab-initio TRAINING (max pilot weight 100kg) – various options**

**PAY as YOU FLY RATES per hour – Account to stay in CREDIT by at least 1 hour**

<i>1<sup>st</sup> Briefing (3 hours) &amp; course material:</i>		<b>R4 700.00 incl VAT</b>
R22 BETA II	R2 880.00 excl VAT	R3 283.20 incl VAT
SIMULATOR	R1 050.00 excl VAT	R1 197.00 incl VAT
SIMULATOR (no instructor)	R 720.00 excl VAT	R 820.80 incl VAT

**PAY as YOU FLY rates for a 50 hour PPL(H) will cost: R164 160.00**

### **PACKAGE A: 5 payments for a 50 hour PPL(H) including 1 hour FREE in our SIM**

Pay in advance as shown below. Account to stay in CREDIT by at least 1 hour

1 <sup>st</sup> briefing/course material:	4 700.00
9 hrs flying @ R3283.20 p/hr + 1 hr SIM @ R1197.00 p/hr	30 745.80
• 1 <sup>st</sup> payment for 1 <sup>st</sup> briefing/course material & 10 hours flying:	35 445.80
• 2 equal payments of R31 344.30 (9 hrs flying + 1.5 hr SIM):	62 688.60
• 2 equal payments of R29 548.80 (9 hrs flying + 0.5 hr SIM @ no charge):	59 097.60
<b>VAT inclusive total for the 50 hour Package (45 hrs flying/5 hr SIM)</b>	<b>R157 232.00</b>

**Effective flying rate p/hr for 50 hrs: R3050.64. Save R1197.00 on Pay as you Fly rates**

### **PACKAGE B: 3 payments for a 50 hour PPL(H) including 2 hours FREE in our SIM**

Pay in advance as shown below. Account to stay in CREDIT by at least 1 hour

1 <sup>st</sup> briefing/course material:	4 700.00
9 hrs flying @ R3283.20 p/hr + 1 hr SIM @ R1197.00 p/hr	30 745.80
• 1 <sup>st</sup> payment for 1 <sup>st</sup> briefing/course material & 10 hours flying:	35 445.80
• 2 <sup>nd</sup> payment of R61 491.60 (18 hrs flying + 2 hr SIM):	61 491.60
• 3 <sup>rd</sup> payment of R59 097.60 (18 hrs flying + 2 hr SIM @ no charge):	59 097.60
<b>VAT inclusive total for the 50 hour Package (45 hrs flying/5 hrs simulator)</b>	<b>R156 035.00</b>

**Effective flying rate p/hr for 50 hrs: R3026.70. Save R2394.00 on Pay as you Fly rates**

### **PACKAGE C: Pay in advance for a 50 hour PPL(H) including 3 hours FREE in our SIM**

1 <sup>st</sup> briefing/course material:	4 700.00
45 hrs flying @ R3283.20 p/hr + 2 hr SIM @ R1197.00 + 3 hrs SIM @ no charge	150 138.00
<b>VAT inclusive total for the 50 hour Package (45 hrs flying/5 hrs simulator)</b>	<b>R154 838.00</b>

**Effective flying rate p/hr for 50 hrs: R3002.76. Save R3591.00 on Pay as you Fly rates**

**Note: 50 hour PPL(H) calculated according to minimum requirements as per SACAA regulations.**



Price List continued (07-03-2011)

**R44 Raven II ab-initio TRAINING (max pilot weight 130kg) – various options**

**PAY as YOU FLY RATES per hour** – Account to stay in CREDIT by at least 1 hour

<i>1<sup>st</sup> Briefing (3 hours) &amp; course material:</i>	<b>R4 700.00 incl VAT</b>
R44 RAVEN II	R3 950.00 excl VAT      R4 503.00 incl VAT
SIMULATOR	R1 050.00 excl VAT      R1 197.00 incl VAT
SIMULATOR (no instructor)	R 720.00 excl VAT      R 820.80 incl VAT

**PAY as YOU FLY rates for a 50 hour PPL(H) will cost: R225 150.00**

**PACKAGE D: Pay in advance for a 5 hour Conversion from the R22 to the R44**

Briefing/course material:	309.00
5 hrs flying @ R4503.00	<u>22 515.00</u>
<b>VAT inclusive total for the 5 hour Conversion</b>	<b>R22 824.00</b>

**PACKAGE E: 5 payments for a 50 hour PPL(H) including 2 hours FREE in our SIM**

Pay in advance as shown below. Account to stay in CREDIT by at least 1 hour

1 <sup>st</sup> briefing/course material:	4 700.00
9 hrs flying @ R4503.00 p/hr + 1 hr SIM @ R1197.00 p/hr	<u>41 724.00</u>
• 1 <sup>st</sup> payment for 1 <sup>st</sup> briefing/course material & 10 hours flying:	46 424.00
• 2 equal payments of R41 724.00 (9 hrs flying + 1 hr SIM):	83 448.00
• 2 equal payments of R40 527.00 (9 hrs flying + 1 hr SIM @ no charge):	<u>81 054.00</u>
<b>VAT inclusive total for the 50 hour Package (45 hrs flying/5 hrs SIM)</b>	<b>R210 926.00</b>

**Effective flying rate p/hr for 50 hrs: R4124.52. Save R2394.00 on Pay as you Fly rates**

**PACKAGE F: 3 payments for a 50 hour PPL(H) including 3 hours FREE in our SIM**

Pay in advance as shown below. Account to stay in CREDIT by at least 1 hour

1 <sup>st</sup> briefing/course material:	4 700.00
9 hrs flying @ R4503.00 p/hr + 1 hr SIM @ R1197.00 p/hr	<u>41 724.00</u>
• 1 <sup>st</sup> payment for 1 <sup>st</sup> briefing/course material & 10 hours flying:	46 424.00
• 2 <sup>nd</sup> payment of R82 251.00 (18 hrs flying + 1 hr SIM):	82 251.00
• 3 <sup>rd</sup> payment of R81 054.00 (18 hrs flying + 3 hr SIM @ no charge):	<u>81 054.00</u>
<b>VAT inclusive total for the 50 hour Package (45 hrs flying/5 hrs SIM)</b>	<b>R209 729.00</b>

**Effective flying rate p/hr for 50 hrs: R4100.58. Save R3591.00 on Pay as you Fly rates**

**PACKAGE G: Pay in advance for a 50 hour PPL(H) including 4 hours FREE in our SIM**

1 <sup>st</sup> briefing/course material:	4 700.00
45 hrs flying @ R4503.00 p/hr + 1 hr SIM @ R1197.00 + 4 hrs SIM @ no charge	<u>203 832.00</u>
<b>VAT inclusive total for the 50 hour Package (45 hrs flying/5 hrs SIM)</b>	<b>R208 532.00</b>

**Effective flying rate p/hr for 50hrs: R4076.64. Save R4788.00 on Pay as you Fly rates**

***Note: 50 hour PPL(H) calculated according to minimum requirements as per SACAA regulations.***



Price List continued (07-03-2011)

**NIGHT RATING on R44 Raven II – various options available**

**PAY as YOU FLY RATES per hour** – Account to stay in CREDIT by at least 1 hour

<i>Night and Nav Briefing:</i>	<b>R1 026.00 incl VAT</b>	
R44 RAVEN II	R4 200.00 excl VAT	R4 788.00 incl VAT
SIMULATOR	R1 050.00 excl VAT	R1 197.00 incl VAT
SIMULATOR (no instructor)	R 720.00 excl VAT	R 820.80 incl VAT

**PACKAGE H: Pay in advance for a 15 hour Night Rating on the R44 and in the SIM**

Briefing/course material:	1 026.00
10 hrs R44 night flying @ R4788.00	47 880.00
4 hrs SIM @ R1 197.00 + 1 hr SIM @ no charge	4 788.00
<b>VAT inclusive total for the 15 hour Night Rating</b>	<b>R53 694.00</b>
<b>Effective flying rate p/hr for 15 hrs:</b>	<b>R3511.20</b>

**PACKAGE I: 20 hours Training for IF RATING in the Frasca Simulator**

Briefings/Lecture fees:	2 280.00
20 hrs in the Simulator @ R1197.00 p/hr	23 940.00
<b>VAT inclusive total for the 20 hour IF Rating</b>	<b>R26 220.00</b>
<b>Effective flying rate p/hr for 20 hrs:</b>	<b>R1197.00</b>

NOTE: Prices quoted are subject to change without notice and will be adjusted for fuel price increases. All reduced package prices offered are subject to being completed within six months from date of purchase. The Night Rating reduced package is subject to being completed within one month from date of purchase. Prices exclude medical exam, radio licence, PPL ground school theory course, SACAA exams and Designated Examiner and Hover Test Fees. No guarantee is implied or given that the student will complete their licence in the SACAA minimum requirement of 50 hours.

**HIRE & FLY**

**PAY as YOU FLY RATES per hour** – Account to stay in CREDIT by at least 1 hour

R22 BETA II	R2 350.00 excl. VAT	R2 679.00 incl. VAT
R44 RAVEN II	R3 350.00 excl. VAT	R3 819.00 incl. VAT
SIMULATOR	R 720.00 excl. VAT	R 820.80 incl. VAT

**PAY IN ADVANCE for 10 hours flying**

R22 BETA II	<b>R26 448.00 incl. VAT</b>
R44 RAVEN II	<b>R37 677.00 incl. VAT</b>

**Insurance excess cover available for Hire & Fly: R225.00 per month (R2 700.00 per annum).**  
**If paying monthly, balance of full annual amount due in the event of an accident/claim.**  
**If excess cover is not purchased, excess of R26 250.00 is payable in the event of an accident/claim.**

Terms and conditions apply. E & O E