

Helicopter Flight Training

Course Information Package



4180 Loch Lomond Road, Building 40
Saint John, NB E2N 1L7

And

101A-11010 Airport Drive
Grande Prairie, AB T8V 7Z5

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“Train To Be The Best”

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Introduction

Helicopter flying is a very rewarding and exciting challenge. Whether you want to fly for business, recreation, or as a career, Advanced Heli-Flight Ltd is able to provide you with all of your helicopter flight training needs. We have highly experienced instructors who enjoy instructing and passing on as much of their experience as possible to students who want to learn this specialized skill.

Our objective is to develop professional helicopter pilots with superior flying skills, aviation knowledge, and interpersonal skills, who are reliable, and exercise excellent judgment and decision-making.

Our business is to offer superior flight and ground instruction from experienced flight instructors using safe, well-maintained aircraft, and modern training facilities.

Our business objective is accomplished by providing an open, safe, and fun learning environment and employing experienced instructors who are confident, competent, and caring; capable of providing leadership and standards of excellence.

Courses

Advanced Heli-Flight Ltd currently offers the following helicopter flight training courses:

- Private Pilot License – Helicopter
- Commercial Pilot License – Helicopter
- Instrument Rating – Group 4 (Helicopters)
- Instructor Rating – Class 4 (Helicopters)
- Night Rating (Helicopters)
- VFR-Over-the-Top Rating (Helicopters)
- Aerial Application
- Vertical Reference (Long-Line)
- Pilot Recurrency Training
- Turbine Transition

Pages 7 to 9 outline the Transport Canada requirements for the Private Pilot License, the Commercial Pilot License and Instrument Rating. The syllabuses and costs for these courses are outlined in pages 10 to 13.

Please contact our office for information on the other courses offered by Advanced Heli-Flight Ltd.

Aircraft

Advanced Heli-Flight Ltd presently uses the Robinson R44 helicopter for flight training. Although there are many helicopter types suited for flight training, we have selected the R44 for its large cabin size, stability, ease of flying, and its safe flight characteristics.

The R44 is one of the safest single engine helicopters in the world. The characteristics of this aircraft that contribute to its impeccable safety record are:

- Its flight stability;
- engine reliability ; and

- the mechanical reliability the R44's components.

Training in R44 will generate three important training benefits for student pilots:

- The increased usage of the R44 in commercial operations make it more likely it will be the aircraft the student will fly in his or her first job;
- the flight characteristics and dimensions of the R44 resemble those of other light helicopters with turbine engines and will make the transition to a turbine engine helicopter easier.
- Its excellent autorotative capabilities allow the instructor to teach autorotations to touchdown with a higher safety margin. This allows the student to become more proficient at autorotative approaches to a touchdown landing.
- Its power availability makes it a great helicopter for teaching advanced training such as mountain flying and long-lining skills.

Instructor

Robert Thorne is the owner and chief flight instructor of Advanced Heli-Flight Ltd. Rob has over 15,000 hours of helicopter flight experience and he holds an Airline Transport Pilot Licence, a Class 1 Instructor Rating, and an Instrument Rating. He also holds equivalent Licences from New Zealand and the United States of America.

Rob's flying experiences include: air ambulance, IFR, offshore operations, helicopter logging, aerial application, drill moving, seismic survey, mountain flying, and abinitio flight training. He has worked in many countries around the world including Canada, the United States, Somalia, Uganda, Kenya, New Zealand, and throughout the Caribbean.

Rob has worked as a flight operations Inspector for the New Zealand Civil Aviation Authority and as an Aviation safety officer for Transport Canada. Rob had the honour of flying Pope John Paul II during his recent visit to Canada.

Rob enjoys instructing students who have a keen interest in flying helicopters and looks forward to providing them with safe, competent flight instruction.

Please contact Rob at (780) 512-1168 or e-mail him at info@advancedheliflight.com if you have any questions regarding flight training.

Location

We operate our flight training programs at the Saint John Airport, Saint John, NB and at the Grande Prairie Airport, Grande Prairie, Alberta Canada.

Both areas offer great training environments. They have the benefits of training at an airport with a Flight service Station and vast forested areas close by where students can learn valuable radio communications and bush flying skills. They also have four distinct seasons, which allows students to learn to fly in all types of weather conditions.

Facilities

Both airports offer two large autorotation areas beside each runway and great confined area training locations close by. The Grande Prairie base offers mountain training in the Rocky Mountains which are close by.

We have a large class room equipped with electronic projectors and an approved flight training device certified for IFR training.

Instructor Student Ratio

The student/instructor ratio will be limited to three students per instructor. This provides each student with the opportunity to fly a minimum of 1.5 hours per day, five days per week (weather permitting).

Educational Prerequisites

Transport Canada does not specify educational requirements for the Private or Commercial pilot Licenses; however, candidates must be able to read and communicate in English. We recommend that students have the equivalent of a grade twelve education.

Foreign Students

Typically you will not need a Study Visa to take any of our courses since they are less than six to enrol in any of our courses, please call Rob Thorne at (780) 512-1168 to discuss your training requirements and determine a start date. After a start date has been agreed to you will be asked to complete an application form and mail it to the address shown on the form along with a \$250 fee for pre-course study material. The fee may be paid for by cheque, bank transfer or money order. We recommend that you complete your medical examination prior to submitting your application.

You will require a passport to enter Canada. Visitors from some countries may need a Temporary Resident Visa to enter Canada. For more information, please go the Citizenship and Immigration Canada Website at: <http://www.cic.gc.ca/english/visit/index.html>

Medical Prerequisites

You must obtain a Medical Certificate from a Civil Aviation Medical Examiner prior to going on your first solo flight. It is recommended that you obtain your Medical Certificate prior to the start of your training program.

You will require a Category 3 Medical certificate for a Private Pilot Licence and a Category 1 Medical Certificate for a Commercial Pilot Licence. Be sure to tell your Medical Examiner what category you require. If you are planning to first obtain a Private Pilot Licence then go on to a Commercial Pilot Licence in the future, be sure to complete a Category 1 medical exam to avoid disappointment.

You will have to arrange for an electro-cardiogram and audiogram for your first medical. Please ask your Medical Examiner where these may be completed.

You may wear corrective lenses to be a pilot, however, there are certain restrictions for various degrees of colour blindness. Ask your Medical Examiner for more details.

Medical Examiners in Your Area

Please call Transport Canada at 1-888-764-3333, or go to the following Website for a list of Transport Canada Designated Medical Examiners in your area:

<http://wwwapps.tc.gc.ca/saf-sec-sur/2/come-meac/l.aspx?lang=eng>

Hours of Operation

Normal hours of operation are from 7:30 a.m. to 5:00 p.m., Monday to Friday. Weekend flying may take place if time is lost during weekdays. After hours flying is available on request.

Course Start Dates and Availability

We offer our courses on a first come first serve bases. Please contact Rob Thorne at (780) 512-1168 for availability.

How to Enrol

To enrol in any of our courses, please call Rob Thorne at (780) 512-1168 to discuss your training requirements and determine a start date. After a start date has been agreed to you will be asked to complete an application form and mail it to the address shown on the form along with a \$250 fee for pre-course study material. We recommend that you complete your medical examination prior to submitting your application.

Progress Review

Helicopter flight training is very expensive and the job market is very competitive for newly licensed pilots. It is our policy to conduct a progress review on commercial pilot candidates at the end of the 5th hour of flight training. At the end of this review the instructor shall advise the student of his or her progress and likelihood of completing the course within the allotted time frame. Together, the student and instructor shall decide if it would be beneficial for the student to continue or discontinue training.

Payment Schedule

Students are required to pay for flight training in 5-hour blocks, in advance. Payment must be in the form of a cheque, cash, or money order. All unused funds are fully refundable.

Ground school supplies must be paid for on receipt.

Tax Incentives

Training towards the Commercial Pilot License is fully deductible from personal income tax in Canada.

Accommodation

There is a variety of other accommodation available in Grande Prairie and Saint John. Prices range from \$600 per month and up. A list of contact telephone numbers for accommodation will be sent to you with your acceptance package.

Please contact Robert Thorne by phone at (780) 512-1168, or email: info@advancedheliflight.com if you require assistance in finding accommodation.

The Employment Outlook for Commercial Graduates

Although employment prospects for experienced helicopter pilots are good, it is often difficult for newly licensed helicopter pilots to find work; mainly because of insurance requirements or customer requirements. There is no recent data on employment statistics for newly licensed pilots; however, the road to finding your first job is not easy. You must contact as many potential employers as possible and sell yourself as a good candidate for hire.

Newly licensed pilots usually find their first job as a dispatcher or in a ground support role. If opportunities exist, the candidate is usually assigned ferry flights with experienced pilots to build time and, at the same time, be assessed on flying abilities. If the employer is satisfied that the prospect fits in well with the organization, the prospect may be given advanced training and put on light flight duty and given more challenging tasks as experience is gained.

Advanced Heli-Flight Ltd. is also a commercial operator. We will hire graduates from our flight school as the need arises. Our graduates may be employed by our company as pilots who conduct helicopter tours at certain community events and to help load and unload passengers. This is temporary employment and provides the candidate with an opportunity to gain experience. We also have many industry contacts who do hire newly licensed pilots. We will provide graduates with an introduction to these operators.

In many instances pilots must spend extended periods of time away from home while on the job; at least until they have enough experience to qualify for a position which operates from a fixed base.

Notes:

- The hourly rate for the Robinson R44 helicopter is \$695 per flight hour based on air time (dual and solo. There are no preparatory instruction fees).

Private Helicopter Pilot Licensing Requirements

Candidates with no previous flying experience must:

- Be seventeen years of age
- Obtain a Category 3 Medical
- Obtain a Restricted Radio Operators Permit – Aeronautical
- Accumulate 45 hours of flight time, of which:
 - 17 hours must be with an instructor
 - 12 hours must be solo
- Attend 40 hours of private ground school
- Achieve 60% on a written examination (PPHEL)
- Demonstrate ability on a practical flight test
- Demonstrate English language proficiency on a verbal test

Candidates who hold a Private Aeroplane Pilot Licence must:

- Accumulate 30 hours of flight time, of which:
 - 17 hours must be with an instructor
 - 8 hours must be solo
- Attend 20 hours of private helicopter ground school
- Achieve 60% on written examination (PHRAC)
- Demonstrate ability on a practical flight test

These flight times are Transport Canada minimum requirements. Experience has shown that it takes approximately 55 hours of flight training to obtain a Private Helicopter Pilot licence.

Commercial Helicopter Pilot Licensing Requirements

Candidates with no previous flying experience must:

- Be eighteen years of age
- Obtain a Category 1 Medical
- Obtain a Restricted Radio Operators Permit - Aeronautical
- Accumulate 100 hours of commercial flight training, of which
 - 55 hours must be with an instructor
 - 35 hours must be solo
- Attend 80 hours of commercial ground school
- Achieve 60% on a written Transport Canada examination (CPHEL)
- Demonstrate ability on a practical flight test
- Demonstrate English language proficiency on a verbal test

Candidates who hold a Commercial Aeroplane Pilot Licence must:

- Accumulate 60 hours of commercial helicopter flight training, of which
 - 37 hours must be with an instructor
 - 23 hours must be solo
- Attend 20 hours of commercial helicopter ground school
- Achieve 60% on written examination (CHRAC)
- Demonstrate ability on a practical flight test

Candidates who hold a Private Helicopter Pilot Licence must:

- Be eighteen years of age
- Obtain a Category 1 Medical
- Accumulate a further 60 hours of commercial helicopter flight training, of which
 - 37 hours must be with an instructor
 - 23 hours must be solo
- Attend 40 hours of commercial helicopter ground school
- Achieve 60% on a written Transport Canada examination (CPHEL)
- Demonstrate ability on a practical flight test

Candidates may commence training prior to reaching their eighteenth birthday.

These flight times are Transport Canada minimum requirements. Some students may require more depending on his or her progress during training, however most students complete the course within the minimum requirement.

Helicopter Instrument Rating Licensing Requirements**Candidates for the Instrument Rating must:**

- Hold a Private or Commercial Helicopter Pilot Licence
- Have 50 hours cross country pilot in command time in helicopters or aeroplanes (min. 10 hours in helicopters)
- Attend 30 hours of Instrument Rating ground school
- Obtain a minimum of 70% on the written Instrument Rating examination (INRAT)
- Complete 40 hours of instrument flight training of which 20 hours may be completed in an approved ground trainer and a minimum of 5 hours in helicopters
- Successfully pass a flight test in accordance with the Flight Test Standards - Instrument Rating

Licensing Requirements for Holders of Foreign Licences (ICAO)

In order to obtain an equivalent Canadian Commercial or Private Helicopter Pilot Licence the candidate must:

- Obtain the appropriate Canadian Medical Certificate

- Pass the Canadian PPHL, CPHL, ATPL-H and Instrument Rating examination (as required)
- Successfully complete the appropriate Transport Canada flight test

It is recommended that candidates complete our Commercial/Private Pilot ground school prior to attempting the examination.

Candidates must complete a minimum of 5 hours of dual flight instruction in our aircraft prior to using our aircraft for a flight test.

Private Helicopter Pilot Course Syllabus and Costs

For all candidates:

Flight Instruction	Time
Instruction in the R44 (dual)	37.0 hrs
Solo practice in the R44(including flight test)	18.0 hrs
Total Flight Time	45.0 Hrs
Preparatory Ground Briefings (no extra cost)	10 hrs

Ground School Subjects	Time
Licensing Requirements and Canadian Aviation Regulations	9.0 hrs
Radio Communications	3.0 hrs
Aerodynamics and Helicopter Theory of Flight	9.0 hrs
Airframes, Engines and Systems	3.0 hrs
Flight Instruments	3.0 hrs
Radio Theory	3.0 hrs
Meteorology	9.0 hrs
Navigation	6.0 hrs
Flight Operations	6.0 hrs
Human Factors, including pilot decision-making.	12.0

Total Ground School Time	63.0 Hrs
Minimum Time Required to Complete Licence Requirements	12 weeks

Optional Courses:	Time
First Aid	2 days
Outdoor Survival	2 days
Underwater Egress (dunker training)	1 day
Interpersonal Skills (dealing with passengers, employers, and co-workers)	1 day

The total flight time required may vary depending on the candidate's progress during flight training. 55 hours of flight time is normally enough to complete the course. Each candidate will be assessed during the first 5 hours of flight training and advised of his/her progress potential.

Costs:

Flight Training (55 hrs in the R44 @ 695 hr.)	\$38,225.00
Ground School (40 hrs)	\$ 630.00
Books and Materials:	\$ 299.00
Exams and licensing Fees:	\$ 260.00
<u>Flight Test:</u>	<u>\$ 300.00</u>
Total Cost:	\$39,714.00

* These prices are current as of January 1, 2011.

Commercial Helicopter Pilot Course Syllabus and Costs

For candidates with no previous flying experience:

Flight Instruction	Time
Instruction in the R44 (dual)	65.0 hrs
Solo practice in the R44 (including flight test)	35.0 hrs
Total Flight Time	100.0 Hrs
Preparatory Ground Briefings (no extra cost)	10 hrs

Ground School Subjects	Time
Licensing Requirements and Canadian Aviation Regulations	15.0 hrs
Radio Communications	3.0 hrs
Aerodynamics and Helicopter Theory of Flight	12.0 hrs
Airframes, Engines and Systems	6.0 hrs
Flight Instruments	3.0 hrs
Radio Theory	6.0 hrs
Meteorology	9.0 hrs
Navigation	6.0 hrs
Flight Operations	9.0 hrs
Human Factors, including pilot decision-making.	12.0
Total Ground School Time	81.0 Hrs
Minimum Time Required to Complete License Requirements	20 weeks

Optional Courses:	Time
First Aid	2 days
Outdoor Survival	2 days
Underwater Egress (dunker training)	1 day
Interpersonal Skills (dealing with passengers, employers, and co-workers)	1 day

The total flight time required may vary depending on the candidate's progress during flight training. 100 hours of flight time is normally enough to complete the course. A further 5 hours of flight training will be required (\$2,150.00) to add night flying privileges. Each candidate will be assessed during the first 5 hours of flight training and advised of his/her progress potential.

Costs:

Flight Training (100 hrs in the R44 @ \$695 hr)	\$69,500.00
Ground School (80 hrs)	\$ 810.00
Books and Materials:	\$ 299.00
Exam and Licensing Fees:	\$ 285.00
Flight Test:	\$ 300.00
Total Cost:	\$71,194.00

* These prices are current as of January 1, 2011.

Commercial Helicopter Pilot Course Syllabus and Costs

For candidates who hold a Commercial Aeroplane Pilot Licence or a Private Helicopter Pilot Licence:

Flight Instruction	Time
Instruction in the R44 (dual)	37.0 hrs
Solo practice in the R44 (including flight test)	23.0 hrs
Total Flight Time	60.0 Hrs
Preparatory Ground Briefings (no extra cost)	10 hrs

Ground School Subjects	Time
Licensing Requirements and Canadian Aviation Regulations	9.0 hrs
Radio Communications	3.0 hrs
Aerodynamics and Helicopter Theory of Flight	9.0 hrs
Airframes, Engines and Systems	3.0 hrs
Flight Instruments	3.0 hrs
Radio Theory	3.0 hrs
Meteorology	9.0 hrs
Navigation	6.0 hrs
Flight Operations	6.0 hrs
Human Factors, including pilot decision-making.	12.0

Total Ground School Time	63.0 Hrs
Minimum Time Required to Complete Licensing Requirements	12 weeks

Optional Courses:	Time
First Aid	2 days
Outdoor Survival	2 days
Underwater Egress (dunker training)	1 day
Interpersonal Skills (dealing with passengers, employers, and co-workers)	1 day

The total flight time required may vary depending on the candidate's progress during flight training. 60 hours of flight time is normally enough to complete the course. Each candidate will be assessed during the first 5 hours of flight training and advised of his/her progress potential.

Costs:

Flight Training (60 hrs in the R44@ \$695 hr)	\$41,700.00
Ground School (40 hrs)	\$ 400.00
Books and Materials:	\$ 299.00
Exam and Licensing Fees:	\$ 285.00
Flight Test:	\$ 300.00
Total Cost:	\$42,984.00

* These prices are current as of January 1, 2011.

Course Syllabus for the Instrument Rating and Costs

Flight Instruction	Time
Instruction in ATC-810 Simulator	20.0 hrs
Instruction in the R44 (including flight test)	20.0 hrs
Total Flight Time	40.0 Hrs
Preparatory Ground Briefings	7.0 hrs
Ground School Subjects	Time
Personnel Licensing and Training	2.0 hrs
Human Factors	2.0 hrs
Instrumentation and Radio Aids	2.0 hrs
Basic Principles and use of VOR and ADF	2.0 hrs
Canadian Aviation General Pages	8.0 hrs
Introduction to GPS and Weather Radar	4.0 hrs
Canadian Aviation General Pages Quiz	1.0 hrs
Rules of the Air and Air Traffic Services	7.0 hrs
Introduction to Departures, Holds and Approaches	4.0 hrs
Meteorology	4.0 hrs
Navigation and Cross-country Planning	2.0 hrs
Review	2.0 hrs
Total Ground School Time	40.0 Hrs
Minimum Time Required to Finish	4 Weeks

Credit may be given for previous instrument flight training experience. 10 hours of the 20-hour requirement may be completed in aeroplanes.

Total flight/simulator time required may vary depending on the candidate's progress during flight training.

Costs:

Simulator training (20 hrs in ATC-810)	\$ 2,061.00
Flight Training (20 hrs in the R44 @ \$750 hr)	\$15,000.00
Ground School (40 hours)	\$ 400.00
Books and Materials	\$ 92.50
Licensing and Exam Fees	\$ 65.00
Flight Test	\$ 300.00
Total Cost:	\$17,918.50

* These prices are current as of January 1, 2011.



Flight Training Application Form

Name: _____

Address: _____

E-mail address: _____

Phone: _____

Age: _____

Gender: M ___ F ___

Education: _____

Course Requested (check appropriate box):

- Private Helicopter Pilot Licence
- Commercial Helicopter Pilot License (100 hour course)
- Commercial Helicopter Pilot License (60 hour alternate course)
- Instrument Rating (helicopters)
- Other: _____

Requested location and start date: _____

Notes:

A fee of \$250 is required for processing and for pre-course study material. The fee may be paid by cheque, money order or bank transfer.

Applicants Signature: _____

Please send to:

Advanced Heli-Flight Ltd.
7717 Abbey Lane
Grande Prairie No. 1, AB T8X 0G4
CANADA

or fax to (780) 882-8758