



Adam Penner
Student



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NOW



Navigation Completed attempted

Expected: Sun, 29 Nov 20

Helicopter Private/Commercial Pilot License

Welcome to our Helicopter Private/Commercial Pilot online ground school! Students must complete all readings, presentations, quizzes and exams in order to receive credit for Private/Commercial ground school. The course is designed to work from the top on down, but it can be completed in any order you prefer.

Course Objectives

- To provide the students with the background knowledge required to operate as a safe Helicopter Private/Commercial pilot.
- To prepare the student for the successful completion of the Helicopter Private/Commercial Pilot written exam.
- Fulfills the Transport Canada requirement for ground school.



Activities

- Assignments
- Forums
- Glossaries
- Quizzes
- Resources



Course Tutorial - READ THIS FIRST!



Study and Reference Guide - Helicopter Private and Commercial Pilot Licence



Canadian Aviation Glossary



Navigation

1

Air Law: Review of the Basics

Topic
1

Home

- Dashboard
- Site pages
- Current course
- HCL
- Participants
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- My courses



Administration

- Course administration
- Grades
- Question bank
- Switch role to...
- Return to my normal role
- Site administration



Flight School



- Erik Olson
- Bill Detwiler



Enrolment

Your enrolment in
Helicopter
Private/Commercial
Licence Course



Assigned Reading - From the Ground Up



General Provisions Presentation



General Provisions Quiz



Aerodromes and Airports Presentation



Aerodromes and Airports Quiz



Personnel Licensing and Training Presentation



Helicopter Personnel Licencing and Training



Personnel Licensing and Training Quiz



Airspace Structure, Classification and Use Presentation



Airspace Structure, Classification and Use Quiz



Forest Fire Flight Restrictions Presentation



Forest Fire Flight Restrictions Quiz



Operating and Flight Rules Presentation



Operating and Flight Rules Quiz



Helicopter Operating and Flight Rules Presentations



Helicopter Operating and Flight Rules Quiz



Altimeter Setting Procedures Presentation



Altimeter Setting Procedures Quiz



Helicopter Operational and Emergency Equipment Requirements



Operational and Emergency Equipment Requirements Quiz



Flight Preparation, Flight Plans and Flight Itineraries Presentation



Flight Preparation, Flight Plans and Flight Itineraries Quiz



Helicopter Pre-Flight and Fuel Requirements Presentation



Pre-Flight and Fuel Requirements Quiz



Air Law Review Topic Quiz



Question/Discussion Forum: Air Law: Review of the Basics

2

Air Law: VFR Procedures

Topic
2



Assigned Reading - From the Ground Up

does not expire.



Operations at or in the Vicinity of an Aerodrome

Presentation



Operations at or in the Vicinity of an Aerodrome Quiz



Helicopter Visual Flight Rules Presentation



Helicopter Visual Flight Rules Quiz



Radio Communications Presentation



Radio Communications Quiz



Emergency Communications and Security Presentation



Emergency Communications and Security Quiz



Aircraft Requirements Presentation



Aircraft Requirements Quiz



Transportation Safety Board Presentation



Transportation Safety Board Quiz



Air Traffic Services and Procedures Presentation



Air Traffic Services and Procedures Quiz



Heliports Presentation



Heliports Quiz



Air Law: VFR Procedures Topic Quiz



Question/Discussion Forum: Air Law: VFR Procedures

3

Air Law: Aircraft/Helicopter

Topic

3



Assigned Reading - CAR's and AIM



Documents Presentation



Documents Quiz



Aircraft Equipment Requirements



Aircraft Equipment Requirements Quiz



Aircraft Maintenance Requirements Presentation



Aircraft Maintenance Requirements Quiz



Technical Maintenance Records Requirements Presentation







Technical Maintenance Records Requirements Quiz



Commercial Maintenance System



Commercial Maintenance System Quiz




















-  Miscellaneous Presentation
-  Miscellaneous Quiz
-  Air Law: Aircraft Topic Quiz
-  Question/Discussion Forum: Air Law: Aircraft

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Air Law: Commercial Aviation (Private Pilot students may skip this section)

Topic

4



-  Assigned reading - CARs and AIM
-  Commercial Flight Operations Presentation
-  Commercial Flight Operations Quiz
-  Flight Time and Flight Duty Time Limitations and Rest Presentation
-  Flight Time, Duty Time and Rest Quiz
-  Type Ratings Presentation
-  Type Ratings Quiz
-  Aerial Work Presentation
-  Aerial Work Quiz
-  Air Taxi Presentation
-  Air Taxi Quiz
-  Safety Management Systems Introduction Presentation
-  Safety Management Systems Quiz
-  Safety Management Systems Application Presentation
-  Safety Management Systems Application Quiz
-  CADORS Presentation
-  CADORS Quiz
-  Air Law: Commercial Aviation Topic Quiz
-  Question/Discussion Forum: Air Law: Commercial Aviation
































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Airframes, Engines, and Systems

Topic

5

-  Reading Reference - FTGU
-  Airframes Presentation





















-  Airframes Quiz
-  Helicopter Landing Gear Presentation
-  Piston Engines
-  O320 Engine Demo
-  Piston Engine Quiz
-  Turbine Engines Presentation
-  Rolls-Royce - Model 250 Turbine Engine Demo
-  Turbine Engines Quiz
-  Helicopter Turbine Engines Presentation
-  Helicopter Turbine engines Quiz
-  Manifold Pressure
-  Manifold Pressure Quiz
-  Carburetor Presentation
-  Carburetor Quiz
-  Fuel Injection Presentation
-  Fuel Injection Quiz
-  Helicopter Hydraulic System Presentation
-  Hydraulic System Quiz
-  Helicopter Transmissions and Gearboxes Presentations
-  Helicopter Transmissions and Gearboxes Quiz
-  Helicopter Electrical Systems Presentation
-  Helicopter Electrical Systems Quiz
-  Lubricating Systems and Oils Presentation
-  Lubricating Systems and Oils Quiz
-  Helicopter Lubricating Systems and Oils Presentation
-  Helicopter Lubricating Systems and Oils
-  Fuel Systems and Fuels Presentation
-  Fuel Systems and Fuels Quiz
-  Helicopter Other Systems Presentations
-  Helicopter Other Aircraft Systems
-  Question/Discussion Forum: Air Law: Airframes, Engines, and Aircraft Systems

6

Theory of Flight

Topic

6








-  Reference Reading - FTGU
-  Principles of Flight Presentation
 -  Principles of Flight Quiz
-  Forces Acting on an Aircraft Presentation
 -  Forces Acting on an Aircraft Quiz
-  Aerofoils Presentation
 -  Aerofoils Quiz
-  Load Factor Presentation
 -  Load Factor Quiz
-  Stability Presentation
 -  Stability Quiz
-  Helicopter Definitions Presentation
 -  Helicopter Definitions Quiz
-  Helicopter Rotor Design Presentation
 -  Helicopter Rotor Design Quiz
-  Helicopter Aerodynamics Presentation
 -  Helicopter Aerodynamics Quiz
-  Helicopter Flight Controls Presentation
 -  Helicopter Flight Control Quiz
-  Question/Discussion Forum: Theory of Flight




















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Flight Operations

Topic

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-  Reading Reference - FTGU
-  General Flight Operations Presentation
 -  General Flight Operations Quiz
-  Wake Turbulence Presentation
 -  Wake Turbulence Quiz
-  Search and Rescue (SAR) Presentation
 -  Search and Rescue Quiz














-  Aircraft Critical Surface Contamination Presentation
-  Aircraft Critical Surface Contamination Quiz
-  Aircraft Icing Presentation
-  Aircraft Icing Quiz
-  Aircraft De-icing/Anti-icing Fluids
-  When in doubt. Aircraft Icing
-  Aircraft De-icing/Anti-icing Fluids Quiz
-  Helicopter Weight and Balance Presentation
-  Helicopter Weight and Balance Quiz
-  Weight Shift Presentation
-  Weight Shift Quiz
-  Segmented Weights for Passengers
-  Segmented Weights for Passengers Quiz
-  Helicopter Performance Presentation
-  Helicopter Performance Quiz
-  Helicopter Performance Charts Presentation
-  Helicopter Performance Charts Quiz
-  Flight Operations Topic Quiz
-  Question/Discussion Forum: Flight Operations

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Pilot Decision Making and Human Factors

Topic
8

















-  Reading Reference - FTGU
-  Visual Illusions Presentation
-  Visual Illusions Quiz
-  Spatial Orientation Presentation
-  Spatial Orientation Quiz
-  Aviation Physiology Presentation
-  Aviation Physiology Quiz
-  Pilot Decision Making Presentation
-  Pilot Decision Making Quiz
-  The Pilot and the Operating Environment Presentation











-  The Pilot and the Operating Environment Quiz
-  Aviation Psychology Presentation
-  Aviation Psychology Quiz
-  Pilot - Equipment/Materials Relationship Presentation
-  Pilot - Equipment / Materials Relationship Quiz
-  Interpersonal Relations Presentation
-  Interpersonal Relations Quiz
-  Cockpit Resource Management (CRM) Presentation
-  Cockpit Resource Management (CRM) Quiz
-  Night Flying Presentation
-  Night Flying Quiz
-  Pilot Decision Making and Human Factors Topic Quiz
-  Question/Discussion Forum: Pilot Decision Making and Human Factors

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Flight Instruments

Topic
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-  Reference Reading - FTGU
-  Pitot Static System Presentation
-  Pitot/Static Simulator
-  Pitot Static System Quiz
-  Airspeed Indicator Presentation
-  Airspeed Indicator Quiz
-  Airspeeds and Definitions Presentation
-  Airspeeds and Definitions Quiz
-  Vertical Speed Indicator Presentation
-  Vertical Speed Indicator Quiz
-  Altimeter/Encoding Altimeters Presentation
-  Altimeter/Encoding Altimeters Quiz
-  Magnetic Compass Presentation
-  Magnetic Compass Quiz
-  Gyroscope Presentation
-  Gyroscope Quiz

-  Heading Indicator Presentation
-  Heading Indicator Quiz
-  Attitude Indicator Presentation
-  Attitude Indicator Quiz
-  Turn and Bank Indicator/Turn Co-ordinator Presentation
-  Turn and Bank Indicator / Turn Co-ordinator Quiz
-  Instrument Flying Presentation
-  Instrument Flying Quiz
-  Flight Instruments Topic Quiz
-  Question/Discussion Forum: Flight Instruments

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Meteorology 1

Topic
10















-  Reference Reading - FTGU
-  The Big Picture of Weather Presentation
-  The Big Picture of Weather Quiz
-  The Earth's Atmosphere Presentation
-  The Earth's Atmosphere Quiz
-  Atmospheric Pressure Presentation
-  Atmospheric Pressure Quiz
-  Meteorological Aspects of Altimetry Presentation
-  Meteorological Aspects of Altimetry Quiz
-  Temperature Presentation
-  Temperature Quiz
-  Air Command Weather
-  Rule of Thumb
-  Meteorology 1 Topic Quiz
-  Question/Discussion Forum: Meteorology 1

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Meteorology 2

Topic
11

-  Reference Reading -FTGU








-  Moisture Presentation
-  Moisture Quiz
-  Stability and Instability Presentation
-  Stability and Instability Quiz
-  The Seasons Presentation
-  The Seasons Quiz
-  Clouds Presentation
-  Clouds Quiz
-  Wind Presentation
-  Wind Quiz
-  Jet Streams Presentation
-  Jet Streams Quiz
-  Meteorology 2 Topic Quiz
-  Question/Discussion Forum: Meteorology 2

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Meteorology 3

Topic

12






-  Reading Reference - FTGU
-  Air Masses Presentation
-  Air Masses Quiz
-  Fronts and Frontal Weather Presentation
-  Fronts and Frontal Weather Quiz
-  Meteorology 3 Topic Quiz
-  Question/Discussion Forum: Meteorology 3








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Meteorology 4

Topic

13

-  Reading Reference - FTGU
-  Mountain Wave Presentation
-  Mountain Wave Quiz
-  Turbulence Presentation
-  Turbulence Quiz



-  Thunderstorms Presentation
-  Time Lapse Storms (Bonus Video)
-  Thunderstorms Quiz
-  Surface Based Layers Presentation
-  Surface Based Layers Quiz
-  Meteorology 4 Topic Quiz
-  Question/Discussion Forum: Meteorology 4





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Weather Reports and Forecast

Topic

14

-  Reference Reading - FTGU & AIM
-  Aviation Weather Services Presentation
-  Aviation Weather Services Quiz
-  NOTAMS Presentation
-  NOTAM Quiz
-  Aviation Weather Reports Presentation
-  Aviation Weather Reports Quiz
-  Aviation Weather Forecasts Presentation
-  Aviation Weather Forecasts Quiz
-  Graphical Area Forecast (GFA) Presentation
-  Graphical Area Forecast (GFA) Quiz
-  Weather Maps and Prognostic Charts Presentation
-  Weather Maps and Prognostic Charts Quiz
-  Satellite Imagery Presentation
-  Satellite Imagery Quiz
-  Airborne Weather Radar Presentation
-  Airborne Weather Radar Quiz
-  Weather Detection Systems Presentation
-  Weather Detection Systems Quiz
-  Weather Radar Presentation
-  Weather Radar Quiz
-  Weather Services (NavCanada)

























-  NavCanada Website Tips
-  NavCanada Website Tip Video
-  Weather Reports and Forecasts Topic Quiz
-  Question/Discussion Forum: Weather reports and forecasts

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Navigation 1: Flight Planning

Topic

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-  Reference Reading - FTGU
-  Navigation Definitions Presentation
-  Navigation Definitions Quiz
-  CFS Presentation
-  CFS Quiz
-  Aeronautical Charts Presentation
-  Aeronautical Charts Quiz
-  Map Legends Presentation
-  Map Legends Quiz
-  Time and Longitude Presentation
-  Time and Longitude Quiz
-  Pilot Navigation Presentation
-  Pilot Navigation Quiz
-  Flight Service Station (FSS)
-  Flight Service Station (FSS) Presentation
-  1: 60 Rule Presentation
-  1:60 Rule Quiz
-  Triangle of Velocity Presentation
-  Triangle of Velocity Quiz
-  LO Chart Definitions and Terms Presentation
-  LO Chart Definitions and Terms Quiz
-  Practice cross country reference material
-  Navigation 1: Flight Planning Review Quiz
-  Question/Discussion Forum: Navigation Flight Planning

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Navigation 2: Practical Navigation

Topic

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-  Reference Reading - FTGU
-  Navigation Log
-  E6B Video Tutorial With Accompanying Text
-  E6B Manual
-  Navigation Computers Presentation
 -  Navigation Computers Quiz 1
 -  Navigation Computers Quiz 2
-  Flight Computer Emulator
-  Filling out a Navlog Presentation
-  Pre-Flight Preparation Presentation
 -  Pre-Flight Preparation Video
 -  Pre-Flight Preparation Quiz
-  CPL Practice Cross-Country Quiz 1
-  CPL Practice Cross-Country Quiz 2
-  CPL Practice Cross-Country Quiz 3
-  Navigation 2: Practical Navigation Review Quiz
-  Question/Discussion Forum: Navigation 2: Practical Navigation

























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Navigation 3: Radio Navigation

Topic

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-  Reference Reading - FTGU
-  Radio Theory Presentation
 -  Radio Theory Quiz
-  Emergency Location Transmitter (ELT) Presentation
 -  Emergency Locator Transmitter (ELT) Quiz
-  Automatic Direction Finder (ADF) Presentation
-  ADF Simulator
 -  Automatic Direction Finder (ADF) Quiz 1
 -  Automatic Direction Finder (ADF) Quiz 2




-  Radio Magnetic Indicator (RMI) Presentation
-  RMI Simulator
-  Radio Magnetic Indicator (RMI) Quiz
-  HSI Presentation
-  HSI Simulator (flash)
-  HSI Quiz
-  VOR Presentation
-  VOR Simulator
-  VOR Quiz
-  Distance Measuring Equipment (DME) Presentation
-  Distance Measuring Equipment (DME) Quiz
-  GPS Presentation
-  GPS Quiz
-  Radio and Radar Aids Presentation
-  Radio and Radar Aids Quiz
-  Transponder Presentation
-  Transponder Quiz
-  ADF Fixed Card Intercept Presentation
-  Fixed Card ADF Intercept Quiz
-  ADF RMI Intercept Presentation
-  VOR Intercept Presentation
-  VOR Intercept Quiz
-  Radio Navigation Review Quiz
-  Question/Discussion Forum: Navigation 3: Radio Navigation

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Practice Exams

Topic








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-  READ BEFORE DOING A PRACTICE EXAM. How do I get a record of ground school letter for my Pilot Training Record?
-  Commercial Pilot Practice Exams - Required Maps and Links for Printing.
-  CPL Practice Exam Resource Links

The above file may be printed (optional) prior to attempting the practice exams. It contains charts linked to by all the exams. For






ease of map reading the tracks have already been highlighted and labeled in each exam.

**IF TROUBLE OPENING THE FILE DIRECTLY -- RIGHT CLICK AND SAVE AS...

-  Practice Examination 1
-  Practice Examination 2
-  Practice Examination 3
-  Practice Examination 4
-  Practice Examination 5
-  Practice Examination 6
-  Question/Discussion Forum: Practice Examinations

19 **"Good to know"**

Topic
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-  Dangerous Goods Presentation
-  Dangerous Goods Quiz
-  New Hire Course
-  New Hire Course Presentation Quiz
-  Transborder Operations

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