

Commercial Pilot with Applied Human Factors Diploma

Program Description	The Langley Flying School (LFS) Commercial Pilot with Applied Human Factors Diploma program (CP Diploma) is designed for candidates who desire to become Commercial Pilots in a dynamic training environment. It integrates practical concepts of Human Factors in aviation into 3 critical phases of Pilot Training and mountain flying.		
	This enhances Pilot awareness of Human Factors concepts, to enable graduates to be better suited for todays aviation industry.		
	In addition to the Transport Canada standards for pilot training and licencing, The 3 main handbooks being used for the course were designed by a Human Factors team for Transport Canada (TC) following International Civil Aviation Organization (ICAO) recommendations. Transport Canada has taken a leading and active role to include Human Factors in aviation training and Langley Flying School being regulated by TC is using this foundation to enhance Pilot training to graduate safer and more competent Pilots that maintain the LFS quality and standard.		
Career Occupation	<i>The career occupations for which the program is intended to prepare a student are as follows:</i> Flight Instructor, Ground Instructor, Commercial Pilot, Airline Transport Pilot, Ferry Pilot.		
Admission Requirements	Requirements the student must meet to be accepted into the program:		
	 Secondary (high) school graduation certificate or equivalent diploma. English language proficiency assessment or ICAO level 4 English equivalent. 		
	3. Transport Canada Category 1 medical is required prior to first solo flight.		
Learning Objectives	At the end of this program student will:		
·	 a. Obtain a Transport Canada Commercial Pilot Licence. b. Possess the skills required to pass advanced pilot selection processes in the modern Canadian aviation industry, which are often based on a combination of aptitude, skill, physiological and psychological assessments. 		
	 c. Have an enhanced level of pilot decision-making and situational awareness relevant to entry level pilots into the aviation industry and instruction of trainee pilots. 		
	 Methodological analysis, problem solving and evaluation, which are useful in dealing with abnormal and emergency scenarios that may be encountered in the aviation industry. 		
Method(s) of Evaluation	The methods of evaluation used to assess a student are those included in the course outlines.		

	Olderating Ovilian Flight Training Since 1994
	phick of
	Hangar 4B, Langley Airport 5333 - 216 Street, Langley
	British Columbia, Canada, V2Y 2N3 Fax: 604-532-6471
Completion	Requirements that a student must meet to complete the program are:
•	
Requirements*	1. Complete 100 hours of LFS Applied Human Factors lecture and pass
	(70%) a LFS Human Factors final exam.
	2. Obtain a Transport Canada Commercial Pilot Licence - with all
	licencing requirements satisfied as per Standard 421 of the Canadian
	Aviation Regulations (CARs).
	, mation negativito (or mo).
Program Duration	18 months.
	This program leads to employment in a career occupation regulated by Transport
	Canada and has an instructional time of 15.0 hours per week for 47 weeks
	broken down as follows:
	Approximately 325 hours of aircraft and FTD training including mandatory pre
	and post flight briefings (250 hours of actual flight and FTD time [15 FTD Pre
	PPL, 70 PPL, 15 FTD PRE CPL, 150 CPL]) and;
	11 L, 70 TT L, 13 TTD TTL CT L, 130 CT LJ) unu,
	275 hours of anomal training in a classes on (70 DDL 120 CDL 10 Mountain
	375 hours of ground training in a classroom (70 PPL, 120 CPL, 10 Mountain
	Flying, 10 aviation research projects, 50 hours Multi Engine IFR ground
	school, 10 hours pilot decision making (PDM), 105 Applied Human Factors)
	Based on the totals above, this program is divided into 12 months (700/15 =
	47 weeks).
	47 WEEKSJ.
	However, due to homework hours (approximately 10 hours per week), flight
	testing and licencing delays, statutory holidays, as well as other operational
	irregularities such as weather and airspace closures, the course is listed as an
	18-month program.
	*325 hours above factors in 0.30 hour for the Transport Canada mandatory briefings (Pre-flight briefing, Preparatory Ground Instruction (PGI), and Post-flight debriefing) per 1 actual aircraft or FTD hour of training.
	Ground instruction (PGI), and Post-flight debriefing) per 1 actual aircraft or FTD nour of training.
Homework Hours	10 hours a week.
Delivery Method(s)	Indicate how the program is delivered
	🔀 In-class instruction
	In-flight instruction
	Distance education
	Combined delivery (both in-class and distance)
Demuined serves	Liekkeydda ala anwinnaach yniferna and ethau adyratian dynatau da da dy'r
Required course	List textbooks, equipment, uniform and other educational materials required to
materials	complete this program.
	The following are a list of textbooks, equipment, and other educational materials
	required to complete this program which are provided to the students:
	Company Uniform.
	 Nav Canada VFR phraseology guide;



- From the Ground Up textbook and workbook;
- Human Factors for Aviation Basic Handbook;
- Ground school and Flight training workbooks with lesson plans;
- Flight Training Manual, 4th Edition;
- C152/C172 Pilot Operating Handbook;
- Pilot Logbook;
- Flight Computer E6B and CX3;
- ICAO Chart Ruler;
- Protractor;
- VNC and VTA maps;
- Canadian Flight Supplement;
- Flight Bag;
- Human Factors for Aviation Advanced Handbook;
- Jeppesen Multi-Engine Manual;
- PA34 Pilot Operating Handbook;
- Instrument Procedures Manual;
- Canada Air Pilot and General Pages CAP/CAP GEN;
- TC flight Instructor Guide;
- Human Factors for Aviation Instructor's Guide;
- PA28 Pilot Operating Handbook;
- TC study and flight test guides;

Program Organization*

The titles of the courses in this program in the order they are provided, and the hours of instruction allotted to each are:

Title of Course	# of Hours*
Private Pilot Ground School	70
Pre-Private Training Pilot Simulation in a Flight Training Device (FTD)	19.5 (15)
Private Pilot Flight Training	91 (70)
Human Factors Introduction	30
Commercial Pilot Ground School	120
Pre-Commercial Training Pilot Simulation in a Flight Training Device (FTD)	19.5 (15)
Commercial Pilot Flight Training	195 (150)
Human Factors for Commercial Pilots	40
Mountain Flying Ground School	10
Multi Engine IFR Ground School	50
Pilot Decision Making	10
Human Factors for Professional Pilots and Instructors	35
Aviation Research Projects	10
TOTAL	700

*All Flight Training above factors in the additional 0.30 hour for the Transport Canada mandatory briefings (Pre-flight briefing, Preparatory Ground Instruction (PGI), and Post-flight debriefing)

* The Applied Human Factors courses are taught concurrently with Flight and Ground Training.