



**Multi-Engine Rating
Flight Training Program**

Privileges (CAR 401.39)

The holder of a permit or licence that has been endorsed with an aeroplane class rating may exercise the privileges of the permit or licence in the class of aeroplane for which the permit or licence is endorsed.

Skill

An applicant for a multi-engine class rating shall successfully complete a flight test as pilot-in-command of a multi-engine class aeroplane, in accordance with Schedule 7 “Flight Test for the Issuance of a Multi-Engine Class Rating – Aeroplane” of Standard 428 - Conduct of Flight Tests.

Weather Minimums

ceiling/flight visibility	Dual	Solo/Night Dual
Circuits	1000/1 NM	1500/3 NM
Practise Area	1000/3 NM	2000/6 NM
Cross Country	1000/3 NM	2500/6 NM
Maximum Cross Wind	15 knots	
Minimum Temperature	-25 C	

Minimum Fuel

dual/solo	Fuel Required
Circuits	Estimated time + 45 min reserve
Practise Area	Estimated time + 45 min reserve
Cross country	Fuel to destination + cont fuel for wx + 45 min res

Reporting of Defects

In the event that any defects or unservicabilities are found, the defects should be reported to KBM (345-5445 ex 279) and then recorded in the journey logbook

Securing Aircraft

When not in use, the aircraft is to put in the hanger or tied down (wings and tail), control lock and pitot cover installed and engine plugs installed in the winter

Emergencies

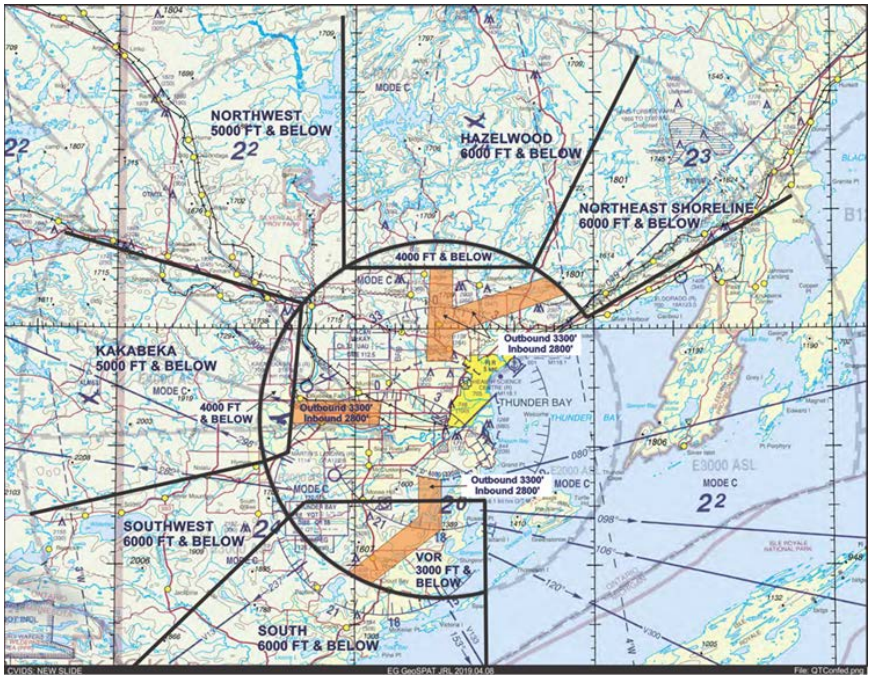
In the event of an emergency or unscheduled landing, contact Flight Service (866-WX BRIEF), and KBM (345-5445 ex 279). DO NOT ATTEMPT TO TAKEOFF BEFORE SPEAKING WITH A REPRESENTATIVE OF KBM. If contact cannot be made for whatever reason and immediate assistance is
0222/22

required, switch the Emergency Locator Transmitter to “ON”. If non-emergency assistance is required, but not immediate (you are stuck at an abandoned aerodrome and cannot contact anyone, switch the ELT to ON for 90 minute, than OFF for 90 minutes and repeat until help arrives.

Other Measures

Due to the cold temperatures in the north, always dress as if you had to spend the night outdoors.

Practise Area's



Multi-Engine Rating Flight Syllabus

#	Lesson	PGI	Sim	Dual
1	Aircraft Familiarization	1.5	1.5	
2	Normal Flight	1.0		1.5
3	Engine Failures 1	1.0	1.5	
4	Engine Failures 2	0.5		1.5
5	Emergencies 1	1.0	1.5	
6	Emergencies 2	0.5		1.5
7	Pre-Flight Test	1.0		1.5
	TOTAL	6.5	4.5	6.0

Lesson 1 Aircraft Familiarization

Date: _____

Instructor: _____

PGI 1.5h

Sim 1.5h

Aim: To familiarize the location of controls in the multi engine aircraft.

Exercise	PGI	Demonstration	Student Performance	Review	Evaluate
Engines	*				
Propellor	*				
Fuel System	*				
Landing Gear System	*				
Electrical System	*				
Weight & Balance	*				
Checklist	*				
Limitations	*				
Performance numbers	*				
Normal Take-Off			*		
Circuit			*		
Landing			*		

Post-Flight Debriefing:

Lesson 2 Normal Flight

Date: _____ Instructor: _____

PGI 1.0h

Dual 1.5h

Aim: To introduce flying multi engine aircraft in normal flight.

Exercise	PGI	Demonstration	Student Performance	Review	Evaluate
Aircraft Systems				*	
Weight & Balance				*	
Principles of Flight (multi)	*				
Take-Off	*	*	*		
Steep Turns	*	*	*		
Maneuv. reduced airspeed	*	*	*		
Approach to Stall					
Stall (Clean)	*	*	*		
Stall (Dirty)	*	*	*		
Circuit	*	*	*		
Landing	*	*	*		
Engine Failure in Cruise		*			

Post-Flight Debriefing:

Lesson 3 Engine Failures 1

Date: _____ Instructor: _____

PGI 1.0h

Sim 1.5h

Aim: To learn how to control the aircraft with an engine failed.

Exercise	PGI	Demonstration	Student Performance	Review	Evaluate
Fundamentals of Multi				*	
Take-off				*	
Eng fail in cruise	*	*	*		
Eng fail in steep turn	*	*	*		
Eng fail on approach	*	*	*		
Eng fail on overshoot	*	*	*		
SE Landing	*	*	*		

Post-Flight Debriefing:

Lesson 4 Engine Failures 2

Date: _____ Instructor: _____

PGI 0.5h

Dual 1.5h

Aim: To learn how to control the aircraft with an engine failed.

Exercise	PGI	Demonstration	Student Performance	Review	Evaluate
Fundamentals of Multi				*	
Take-off				*	
Eng fail in cruise	*	*	*		
Eng fail in steep turn	*	*	*		
Eng fail on approach	*	*	*		
Eng fail on overshoot	*	*	*		
Circuit				*	
SE Landing	*	*	*		

Post-Flight Debriefing:

Lesson 5 Emergencies 1

Date: _____ Instructor: _____

PGI 1.0h

Sim 1.5h

Aim: To teach the student how to conduct a precision ILS approach.

Exercise	PGI	Demonstration	Student Performance	Review	Evaluate
Emergency checklists	*		*		
Prop over/under speed	*		*		
Precautionary shutdown	*		*		
Gear malfunction	*		*		
Turbo failure	*		*		
Induction icing	*		*		
Engine fire	*		*		
Electrical fire	*		*		
Cargo fire	*		*		
SE Landing				*	

Post-Flight Debriefing:

Lesson 6 Emergencies 2

Date: _____ Instructor: _____

PGI 0.5h

Dual 1.5h

Aim: To teach the student how to conduct a RNAV approach.

Exercise	PGI	Demonstration	Student Performance	Review	Evaluate
Eng fail on overshoot				*	
Eng fail on approach				*	
Emergency checklists				*	
Prop over/under speed				*	
Precautionary shutdown				*	
Gear malfunction				*	
Turbo failure				*	
Induction icing				*	
Engine fire				*	
Electrical fire				*	
Cargo fire				*	
SE Landing				*	

Post-Flight Debriefing:

Lesson 7 Pre-Flight Test

Date: _____ Instructor: _____

PGI 1.0h
Dual 1.5h

Aim: To teach the student full procedure instrument approaches.

Exercise	PGI	Demonstration	Student Performance	Review	Evaluate
Docs & Airworthiness					/3
Perf. & Limitations					/3
Principles of Flight (multi)					/3
Weight & Balance					/3
Pre-Flight Inspection					/3
Take-Off					/3
Circuit					/3
Landing					/3
Eng fail (cruise)					/3
Maneuv. reduced airspeed					/3
Stall					/3
Approach to Stall					/3
Step Turn					/3
Eng. Fail (overshoot)					/3
Precautionary Shutdown					/3
SE Landing					/3
Emergencies					/3

Post-Flight Debriefing:

