

For entertainment purposes only. Not to be used for real flight lessons.



Learn To Fly Flight Lesson 10

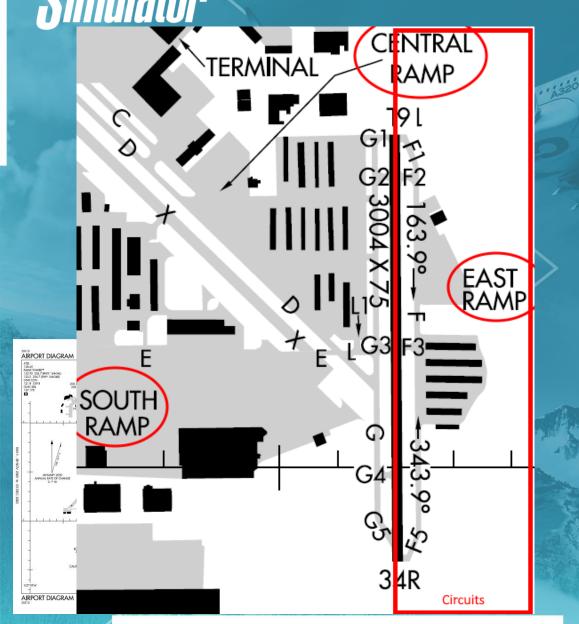




UDENT JAYNE



Flight Lesson 10



Flight Freedom Freedom Forder Learn To Fly.com

Ensure you grab your student training materials kit with the links in chat. Includes your checklist for the 152.

One link for a group of materials: **!studentkit**

The URL of the important flight training material online: **!material**



10th Flight Lesson Briefing

Skills to learn in the tenth flying lesson:

-Flapless Landings

-The Forward Slip

-Touch-n-Go's vs Stop-n-Go's

Microsoft Flight Simulator

Flight Lesson Preparation

Ensure your rudder is not linked to your ailerons.

This flying skill requires "crosscontrol" of rudder and ailerons.

> ASSISTANCE				
	СИЅТОМ			
SEARCH	ク > 33 RESULT(S) FOUND			
∧ PILOTING		<	HARD	>
TAKE-OFF AUTO-RUDDER		<	OFF	>
ASSISTED YOKE			OFF	
ASSISTED CHECKLIST		<	OFF	
ASSISTED LANDING			OFF	
ASSISTED TAKEOFF			OFF	>
DELEGATE ATC TO AI			OFF	▶
 AIRCRAFT SYSTEMS 		<	HARD	
 FAILURE AND DAMAGE 		<	EASY	
 NAVIGATION AIDS 		<	HARD	
 NOTIFICATION 			HARD	
✓ USER EXPERIENCE		<u> </u>	MEDIUM	



What are Flaps?

Trailing edge moveable wing surfaces to change the shape of the wing.



Primarily used for landings, to reduce the stall speed and allow slower approaches with better visibility.



motors.

Flapless Landings

In some planes like the Cessna 152/172 they are operated by a flap switch and electric If your alternator isn't charging your battery correctly, you could drain it and you won't have flaps to land.

So we practice "flapless landings" to be prepared.

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The reason a landing without flaps is dangerous and in need of practice is that we accelerate our airspeed as we point to the runway to land.



We could flare and bleed-off speed, but we might run out of runway.

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So we use a technique called "Forward Slip"

We are "slipping" the airplane forward to lose altitude without an increase in speed. In the early days of aviation, this was common on the approach to land as small planes didn't have flaps.

This "sideways" movement increases drag and keeps us from accelerating on approach.

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Remember in a "side slip" we use a wing-low, aileron into wind and rudder control to align with the runway and compensate for wind forces against the Aeroplane.

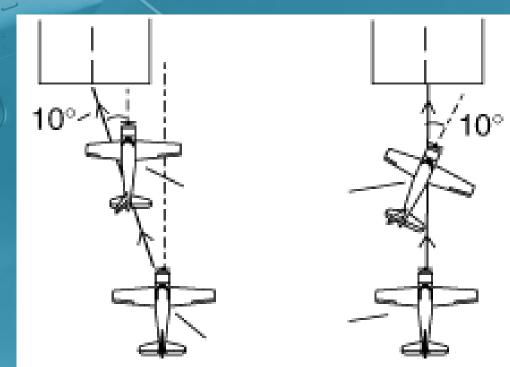


We still have flaps for better visibility and a steeper, slower approach.

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This "cross-controls" is similar in a forward slip but should only be used without full flaps.

Many airplanes forbid or "Avoid" forward slips with flaps extended for safety reasons.



The side slip. The forward slip.

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Descend to the runway without an increase in airspeed.

Re-align your airplane with the runway on flare. -Left Wing down
-Right rudder for
nose to the right.
-Flight path straight
-Ground path straight

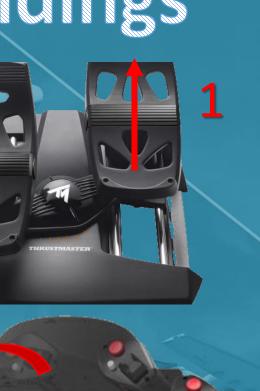
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1. Full right rudder

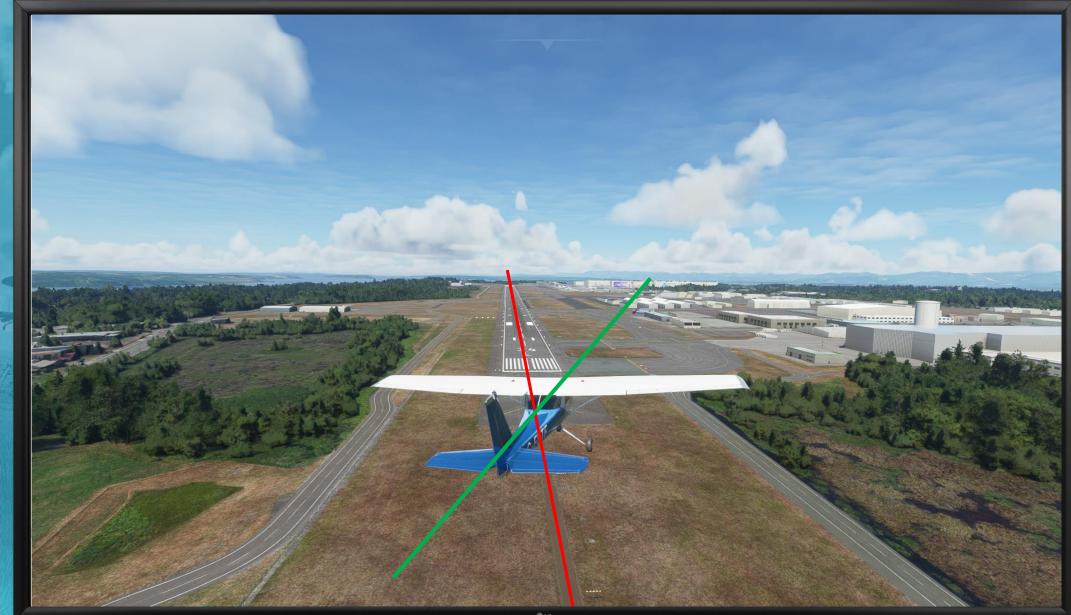
2. Turn the yoke to keep your flight path inline with the runway

3. Pitch for approach speed (55-60)



3

Flapless Landing Example



Flapless Landing Example



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Touch-and-Go vs Stop-and-Go

Both methods are a practicing methodology to save you time or to focus on leaving the runway and taxi procedures.

You should practice both methods.

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Touch-and-Go

As the phrase suggests, touch-ngo's keep you rolling after landing to continue with another circuit without stopping.

You are touching the runway on the run and keep going with full power, flaps up, rotate.

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Touch-and-Go

 Upon wheels down, don't apply brakes.
 On the run, immediate full power and carb heat off.
 Flaps retract, or all the way

up before rotate speed.

Everything happens fast.

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Stop-and-Go

Stop-n-go's have you exit the runway after landing to practice leaving the runway, taxiing and takeoff again with appropriate radio calls.

More relaxed as you actually stop!

10th Flight Lesson Briefing Let's go



A 3rd party free download to pass control of the airplane back and forth.

Flying!

While Jayne and Howard head out to the airplane please direct your questions in chat to her fellow students on live mics.

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They will convey your questions upon their return.

Flight Lesson 10 The Walkaround

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Microsol



Jayne has done the runup too to save us some time in the stream. See lessons 2,3 or 4 for full runup Cessna. 152 CESSNA MODEL 152

INFORMATION MANUAL



152 TAXI (or Run up first)

Brakes Check Instruments Check while turning

RUN UP (into wind)

Parking Brake — ON Fuel Quantity — CHECK Elevator TRIM check set for T/O Throttle to 1700 - Mags CHECK - not to exceed 150 rpm on either or 50 between both Carb Heat — ON (small rpm drop) Engine Instruments & Ammeter CHECK Suction Gage CHECK green Idle RPM, then 1000 Radios and Avionics SET Controls Free



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-Flap-less Landings -Touch-and-Go's -Stop-and-Go's

Review

Chapter 8: Approach & Landing

IManual (FAA online docs)

POST FLIGHT

Review Lesson, re-brief as necessary.
 Assign reading for next lesson



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Summary Questions

1. Why do we need to practice flapless landings?

These are directed questions at the 6 student pilots in this session.



Chat questions will be addressed after this.





Summary Questions

2. Why should we practice continuous circuits?

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Summary Questions

3. Why do we land straight ahead after takeoff with an engine failure?



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Summary Questions

4. What is the advantage of stop-and-go over a continuous touch-and-go?

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5. What is the biggest challenge with touch-and-go's?



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Summary Questions

6. What is the difference between a side-slip and a forward slip?

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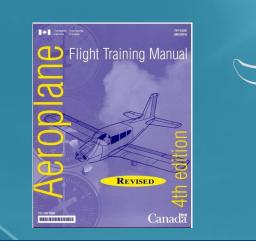
Summary Questions

7. What is the main advantage of using a forward slip?

Microsoft Flight Simulator

Flight Lesson 10 Homework

If you have access to the Canadian Flight Training Manual, you can easily find these topics. Alternatively get the link to the FAA online reference material that anyone can access.

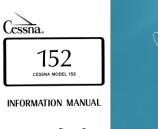


Federal Av Administra				
Aircraft Airports A	ir Traffic Data & Research Licenses & Certificates Regulations & Policies Training & Testing			
FAA Home + Regulations & Policies + Handbooks & Manuals + Aviation				
Advisory Circulars (ACs)	Airplane Flying Handbook <			
Airworthiness Directives (ADs)				
FAA Regulations Forms Handbooks & Manuals	Airplane Flying Handbook, FAA-H-8083-3B (full version — low resolution) (PDF, 89.9 ME) Front Matter (PDF) Table of Contents (PDF) Chapter 1: Indouction to Flight Training (PDF) Chapter 2: Ground Operations (PDF) Chapter 2: Ground Operations (PDF) Chapter 4: Maintaining Alcraft Controt: Upset Prevention and Recovery Training (PDF) Chapter 5: Takeoffs and Departure Climbs (PDF) Chapter 6: Ground Reference Maneuvers (PDF) Chapter 6: Ground Reference Maneuvers (PDF) Chapter 6: Approximations (PDF) Chapter 7: Approximations (PDF) Chapter 8: Approximations (PDF) Chapter 8: Approximations (PDF)			
Aircraft				
Aviation				
Notices to Airmen (NOTAMS)				
Orders & Notices				
Pilot Records Database Policy & Guidance				
Rulemaking	Chapter 9: Performance Maneuvers (PDF)			
Temporary Flight Restrictions (TFRs)	Chapter 10: Night Operations (PDF) Classer 11: Signation to Complex Alplanes (PDF) Classer 2: Alban 12: Classer 10: Classer 12: Classer 13: Classer 1			

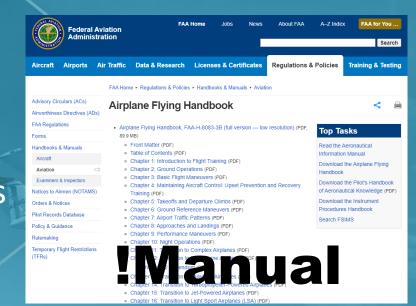
Flight Lesson 10 Homework For Lesson 11

 Turn-off Rudder assistance in "Assistance"
 Practice both touch-n-goes and stop-n-goes regularly as a way to hone your skills in all phases of flight.

3. Practice flapless landings at various speeds.



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Flight Lesson 10 Homework For Lesson 11

4. Do your appropriate radio calls in the circuit and during stop-n-goes.

Next lesson; short-field and soft-field landings and takeoff

Chapter 8: Approach & Landing

IManual (FAA online docs)



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On Voice Student Pilots

JAYNE

