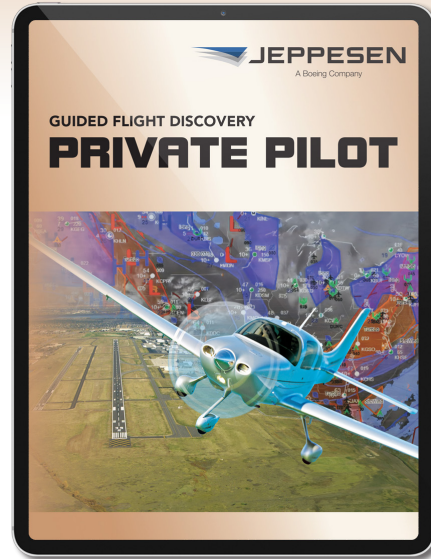JEPPESEN
A Boeing Company

PRIVATE PILOT TEXTBOOK UPDATES

The latest version of the Guided Flight Discovery (GFD) Private Pilot textbook (in print and e-book formats) continues to combine engaging, up-to-date content with unique design elements. The textbook includes over 1,000 images and innovative graphics to make complex subjects easy to understand. You will discover the latest developments in flight operations, ranging from the FAA's NextGen system to electronic flight bags to customizable weather graphics. The 2024 version contains updates throughout the entire book—including over 150 new images and graphics—with new content that focuses on the latest FAA and industry flight safety practices.

PRIVATE PILOT ■ **Training Product Updates**

COMPETENCY-BASED TRAINING AND ASSESSMENT (CBTA)

Application of Knowledge (KNO)

Technical Competencies

Application of Procedures and Compliance with Regulations (PRO)

Airplane Flight Path Management — Manual Control (FPM)

Airplane Flight Path Management — Automation (FPA)

Human Factors Competencies

Communication (COM)

Leadership and Teamwork (LTW)

Workload Management (WLM)

Situation Awareness and Management of Information (SAW)

Problem Solving — Decision Making (PSD)

Use this innovative approach to pilot training—focusing on both technical and human factors skills—to enhance your ability to operate safely and efficiently in today's flight environment.
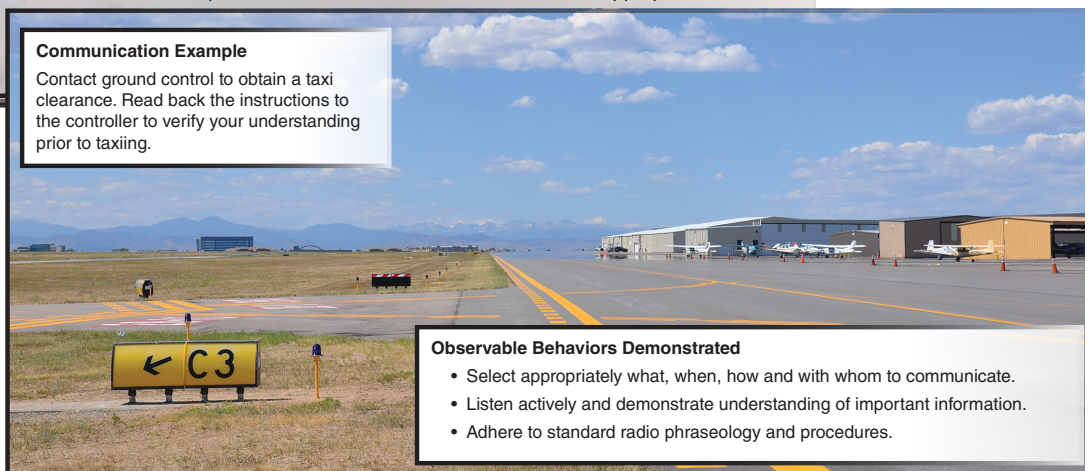
Communication (COM)
Communicate through appropriate means in the operational environment, in both normal and non-normal situations.

Observable Behaviors (OB)

OB 1	Determine that the recipient is ready and able to receive information.
OB 2	Select appropriately what, when, how and with whom to communicate.
OB 3	Convey messages clearly, accurately and concisely.
OB 4	Confirm that the recipient demonstrates understanding of important information.
OB 5	Listen actively and demonstrate understanding when receiving information.
OB 6	Ask relevant and effective questions.
OB 7	Use appropriate escalation in communication to resolve identified deviations.
OB 8	Use and interpret non-verbal communication in a manner appropriate to the

Communication Example

Contact ground control to obtain a taxi clearance. Read back the instructions to the controller to verify your understanding prior to taxiing.

Observable Behaviors Demonstrated
- Select appropriately what, when, how and with whom to communicate.
- Listen actively and demonstrate understanding of important information.
- Adhere to standard radio phraseology and procedures.

During your training, you will demonstrate specific observable behaviors (OBs) to indicate that you have mastered 9 competencies.

THREAT AND ERROR MANAGEMENT (TEM)

TEM Strategies During Flight

Predictive Monitoring

- **Anticipate and Mitigate Threats**

  You obtain weather updates during a cross-country flight and determine that the ceiling and visibility are lowering at your destination. You land at an alternate airport that is reporting VFR conditions.

Reactive Monitoring

- **Identify and Mitigate Unexpected Threats**

  An unexpected gust of wind causes your airplane to veer from the runway centerline during final approach. You initiate a go-around.
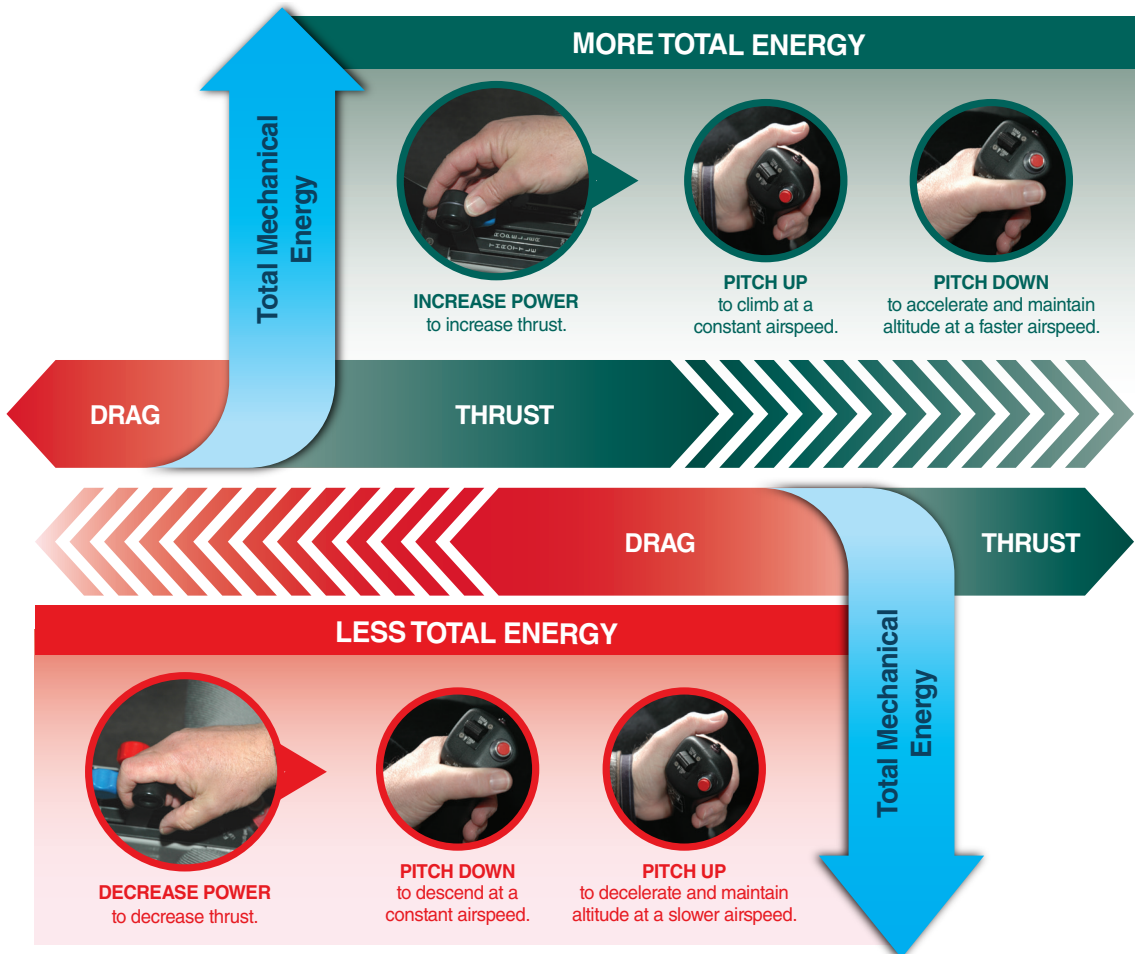
- **Detect and Correct Errors**

  You inadvertently fly into clouds on a flight under VFR. You perform a 180° turn to return to VFR conditions.

- **Recognize and Recover from a UAS**

  While practicing stalls, you inadvertently enter a spin. You return to straight-and-level flight by following the proper spin recovery procedure for your airplane.

Discover essential strategies to mitigate risks and manage challenging situations to enhance flight safety.

ENERGY MANAGEMENT

Total Mechanical Energy

MORE TOTAL ENERGY

INCREASE POWER to increase thrust.

PITCH UP to climb at a constant airspeed.

PITCH DOWN to accelerate and maintain altitude at a faster airspeed.

DRAG

THRUST

DRAG

THRUST

LESS TOTAL ENERGY

Total Mechanical Energy

DECREASE POWER to decrease thrust.

PITCH DOWN to descend at a constant airspeed.

PITCH UP to decelerate and maintain altitude at a slower airspeed.

Understand how to use power and pitch to effectively control an airplane's energy state of altitude and airspeed—a critical skill to master for preventing accidents.

GRAPHIC WEATHER PRODUCTS
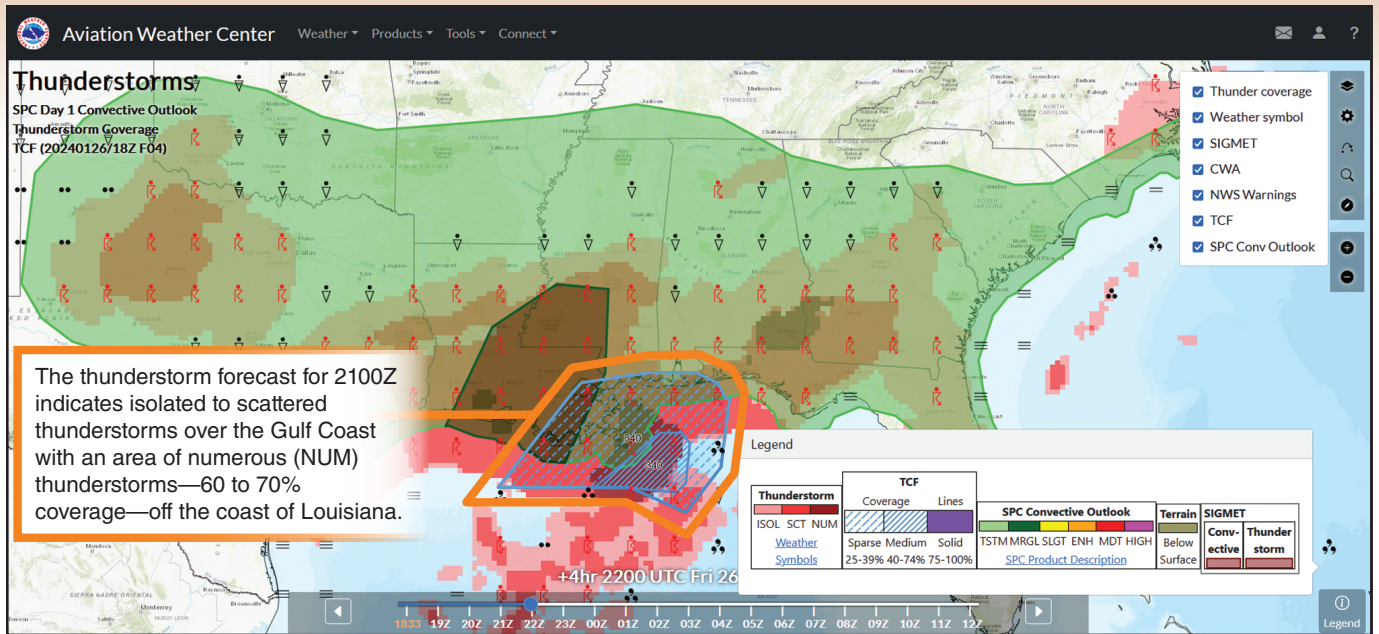
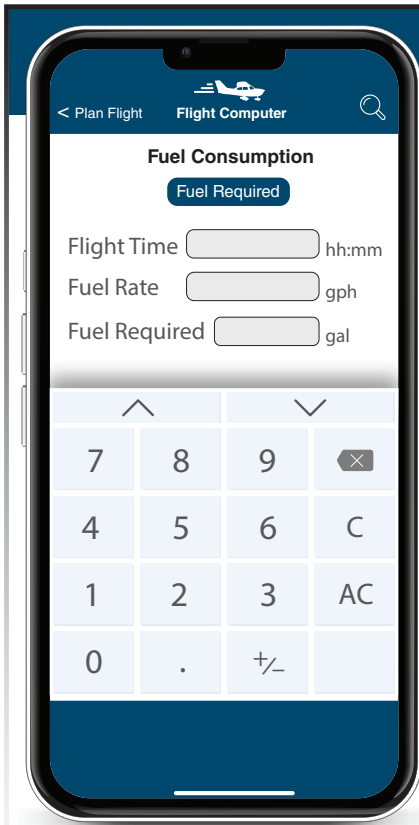Explore the latest weather products—learn how to interpret chart symbology and customize graphics to obtain a comprehensive, in-depth understanding of the weather conditions affecting each flight.

SOURCES OF FLIGHT AND WEATHER INFORMATION

Examine the latest methods, including online sources and electronic flight bags (EFBs) for obtaining the most up-to-date information to ensure a successful flight.

FLIGHT COMPUTERS

TO DETERMINE:

FUEL REQUIRED	ENDURANCE

RED VALUES / **FUEL CONSUMPTION RATE** / **TIME**

REQUIRED VALUES / **USABLE FUEL** / **FUEL CONSUMPTION RATE**

FORMULA: ...nsumption Rate x Time

FORMULA: Usable fuel ÷ Fuel Consumption Rate

Given
- Fuel consumption rate: 8.5 gal/hr
- Flight time: 2 hrs and 11 min

Find
Fuel required

To find the fuel required

< Plan Flight   **Flight Computer**

Fuel Consumption

Fuel Required

Flight Time _____ hh:mm

Fuel Rate _____ gph

Fuel Required _____ gal

7	8	9	⌫
4	5	6	C
1	2	3	AC
0	.	+/−	

1

< Plan Flight   **Flight Computer**

Fuel Consumption
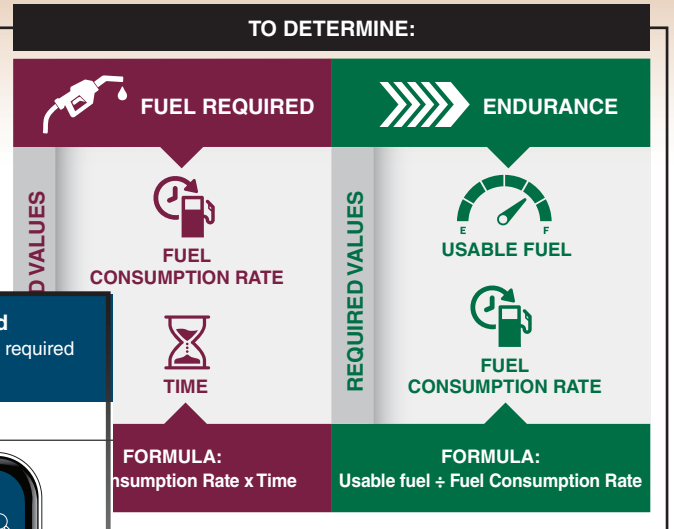
Fuel Required
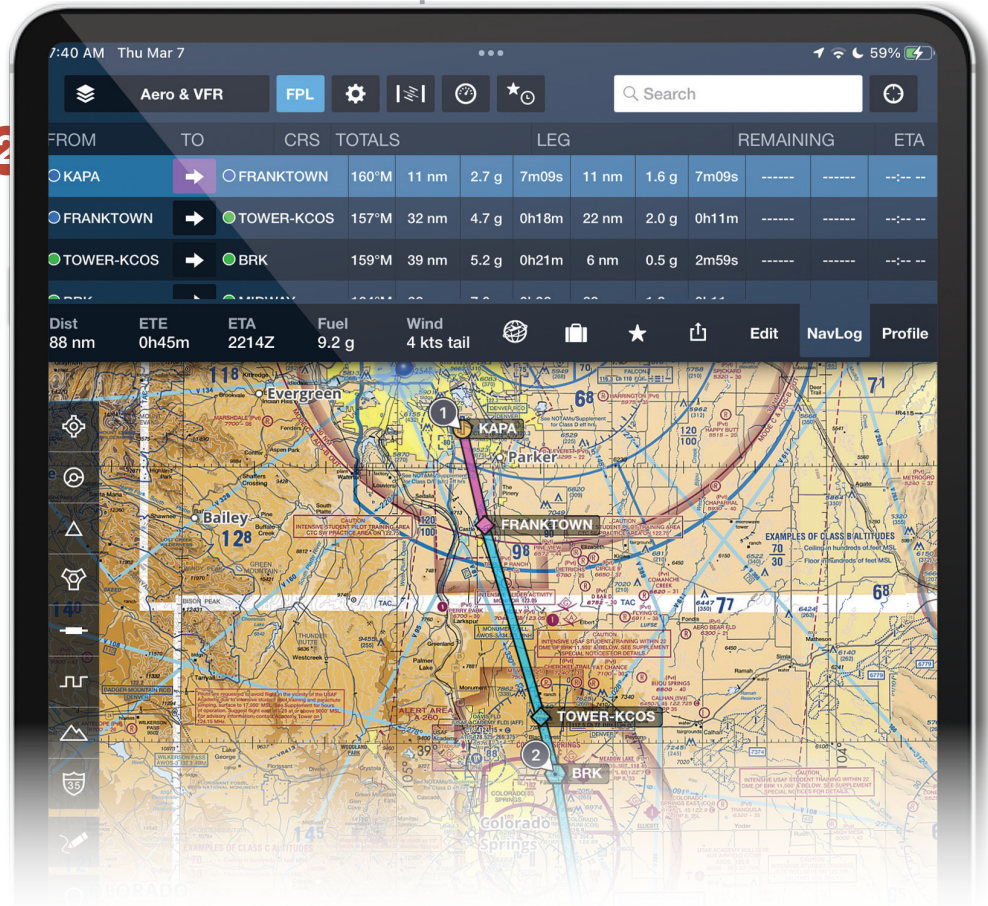
Flight Time   02:11   hh:mm

Fuel Rate _____ gph

Fuel Required _____ gal

On the Fuel Required page, enter the flight time of 2:11.

2

Master the required knowledge to perform accurate flight planning calculations on the ground and in flight whether you are using an electronic or mechanical flight computer.

7:40 AM   Thu Mar 7   59%

Aero & VFR   FPL   ⚙   Search

FROM		TO	CRS	TOTALS			LEG					REMAINING		ETA
○ KAPA	→	○ FRANKTOWN	160°M	11 nm	2.7 g	7m09s	11 nm	1.6 g	7m09s	------	------	--:-- --
○ FRANKTOWN	→	○ TOWER-KCOS	157°M	32 nm	4.7 g	0h18m	22 nm	2.0 g	0h11m	------	------	--:-- --
○ TOWER-KCOS	→	○ BRK	159°M	39 nm	5.2 g	0h21m	6 nm	0.5 g	2m59s	------	------	--:-- --

Dist 88 nm	ETE 0h45m	ETA 2214Z	Fuel 9.2 g	Wind 4 kts tail			Edit	NavLog	Profile

Private Pilot Textbook (Print)

Item-Version: 10001360-007

ISBN: 978-0-88487-700-4

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Private Pilot Textbook (E-Book)

Item-Version: 10277280-004

ISBN: 978-0-88487-701-1

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The Americas 800.621.5377 or 303.328.4274

United Kingdom, Middle East, Africa & Asia

+44 1293 842404

0800 085 5377 (UK & Ireland)

Europe

+49 6102 5070

Australia

+61 2 6120 2999