

Beechcraft Pilot Proficiency Program

Beechcraft Systems, Procedures and Techniques Course

(“BPPP Initial”)

Course Descriptions

Since 1983 the American Bonanza Air Safety Foundation, through its Beechcraft Pilot Proficiency Program (BPPP), has been the industry leader in type-specific pilot education. BPPP instruction consists of online learning done at your own pace, followed by approximately four hours of flight instruction in your Beechcraft conducted by an expert, BPPP-standardized flight instructor you schedule at your convenience near your home or desired training location.

ABS's goal is simple: **to protect lives and preserve the Beechcraft fleet**, by significantly increasing the number of ABS members who receive The Best in Beechcraft Pilot Training™.

Here's what you'll learn in the BPPP Systems, Procedures and Techniques online course:

General Emergencies

You'll learn to prioritize actions, analyse systems failures and get your Beechcraft safely on the ground. This program focuses on three common abnormal/emergency conditions: an open forward cabin door in flight, manual landing gear extension, and electrical failures and fires. Based on an original classroom presentation created for BPPP by Hank Canterbury and Bill Hale.

Bonanza/Debonair Engine Failures and Fires

This segment helps you develop a plan of action for engine failures and fires. It reviews the causes of engine failures in Bonanzas and Debonairs, and the steps you should take to respond to a failure in all phases of flight including restart attempts and establishing Best Glide performance and landing. Based on an original classroom presentation created for BPPP by Hank Canterbury.

Baron/Travel Air Engine Failures and Fires

The Baron/Travel Air engine failures and fires program covers the unique issues presented by engine failures in light twin airplanes. You'll review Accelerate/Stop, Accelerate/Go, V_{MCA} , maximizing single-engine performance, the effects of airplane weight and density altitude on single-engine performance, precautionary engine shutdown, engine fires, and single-engine approach, landing and go-around. Based on an original classroom presentation created for BPPP by Jack Hirsch.

By the Numbers

“By the Numbers” is the signature topic of the Beechcraft Pilot Proficiency Program. Your Beechcraft will fly very predictably for given combinations of power, aircraft configuration and attitude. By the Numbers teaches the recommended combinations of these variables for all phases of flight. Based on an original classroom presentation created for BPPP by John Eckalbar.

Maneuver/Gust Envelope

You don't need to be an aerodynamicist to understand the critical concepts of lift, angle of attack, airspeed and G-load. You do, however, need to fully understand the ramifications of airplane structural loads. This program teaches the logic behind V_A and how it changes with airplane weight. More importantly, it reveals why this knowledge is vital to safely flying your Beechcraft, especially in turbulence. Based on an original classroom presentation created for BPPP by John Eckalbar and Hank Canterbury.

Bonanza/Debonair Fuel Systems

The Bonanza/Debonair fuel system has changed several times over the years. Learn the system that applies to the Beechcraft you fly, including normal and auxiliary fuel, use of wobble pumps and electric fuel pumps, fuel quantity indicating systems, the operation of pressure-carbureted and fuel injection systems, abnormal indications and fuel system techniques and limitations. Based on an original classroom presentation created for BPPP by Bill Hale.

Baron/Travel Air Fuel Systems

The Baron and Travel Air fuel system has changed many times over the years. Learn the system that applies to the Beechcraft twin you fly, including normal and auxiliary fuel, use of electric fuel pumps, fuel quantity indicating systems, the operation of carbureted and fuel injection systems, abnormal conditions, crossfeed and fuel system limitations. Based on an original classroom presentation created for BPPP by Dave Monti.

Electrical Systems

Learn the normal, abnormal and emergency operation of your Beechcraft's electrical system, including generators and alternators, circuit protection, electrical system monitoring, standby and emergency operation, electrical fire and overheat procedures, and auxiliary power starts. Based on an original classroom presentation created for BPPP by Dave Monti and Bill Hale.

Miscellaneous Systems

In this segment you'll learn about four major Beechcraft systems, and the changes that have been made over the models and years: Landing gear, Environmental systems, Instrument air and Ice protection. Each section covers normal and abnormal operation, including advisory and warning systems, limitations, and hints for system use. Based on an original classroom presentation created for BPPP by Bill Hale and Dave Monti.

Critical Maintenance Issues

To help you find and fix discrepancies before they delay your BPPP flight instruction, and to help you better inspect your airplane before all flights, this segment presents some of the squawks we've found at past BPPP pilot training events. Remember it's your responsibility to provide an airworthy airplane in order to fly with BPPP. This is an original presentation written specifically for BPPP Online by Dave Monti and Ron Zasadzinski.

Weight and Balance

There's a lot more to weight and balance than knowing the airplane's takeoff condition. Even within the approved envelope, changes in weight and center of gravity location have a pronounced effect on airplane performance, handling and stability. Learn the impact of fore- and aft c.g. within and outside the approved envelope, and the weight and balance limitations that apply to your Beechcraft. Based on an original classroom presentation created for BPPP by Hank Canterbury and Greg Ricca.

Pilot's Operating Handbook

How can you use the information in your Pilot's Operating Handbook to get maximum performance from your Beechcraft? What do you need to know about your airplane that's not in the POH? This segment teaches how to maximize takeoff and climb performance, range and fuel economy, and landing performance using information from the POH and other credible sources. Based on an original classroom presentation created for BPPP by John Eckalbar and Randy Bailey.

BPPP Initial Systems, Procedures and Techniques

After you've completed all the segments of BPPP Online+Flight that apply to your Beechcraft, it's time to fly. This last program reviews what you need to do to arrange and prepare for your BPPP flight instruction. Seven slides plus quiz. Created and narrated by Thomas P. Turner.

Presentations were originally created by the instructors of ABS' Beechcraft Pilot Proficiency Program. All have been edited and adapted for online training by the ABS Air Safety Foundation.

Videography, audio recording and sound editing by Wynn Ponder and Lance Ponder, PonderConnect, Inc., Wichita, Kansas (www.ponderconnect.com).

Video editing, audio integration and program hosting by Thomas Allen, Opango, Inc., Dallas, Texas (www.opango.com).

Adapted and narrated by Thomas P. Turner, Master CFI and Executive Director, ABS Air Safety Foundation.

Thanks for becoming a safer Beechcraft pilot with ABS
and the ABS Air Safety Foundation

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