

Official Record of Meetings with Mr. Alon Inditzky Following Fatal Aircraft Accident

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Introduction

Mr. Inditzky, a pilot with a little over 200 hours of flying experience, relocated to our area from Northern California and approached the flight school in need of a flight review. During our initial conversation on April 7th, 2023, Mr. Inditzky mentioned that he had previously received his flight training from the Reid-Hillview Airport (KRHV) and regularly flew a G1000 Cessna at his former flight school. However, due to his busy schedule and inability to find a suitable new flight school, he had not flown for seven months prior to our meeting. I spent a total of 6 hours with Mr. Inditzky over two separate sessions, which took place on April 7th and April 27th, 2023, respectively.

Ground Portion of the Flight Review on April 7th, 2023 (1.6 Hours Total)

X/C Flight Plan Scenario to KAVX

As part of the flight review, I engaged Mr. Inditzky in a discussion regarding his approach to planning and conducting a cross country flight from Camarillo to Catalina. In our initial conversation, Mr. Inditzky expressed interest in flying to the Catalina Airport and getting checked out to be able to fly there on his own. This exercise aimed to assist Mr. Inditzky in becoming more familiar with the local airspace while also providing me with a valuable opportunity to gain insight into his decision-making processes in preparing for a cross country flight, particularly when dealing with an airport like Catalina that is unfamiliar to him and presents its own set of unique challenges.

The flight review was conducted with guidance from the FAA Safety Team's guide titled "Conducting an Effective Flight Review". A copy of the document has been provided for reference. The topics we discussed when analyzing this scenario have also been provided for reference. Mr. Inditzky was attentive and actively engaging in the discussion we were having and eager to learn more information. I judged Mr. Inditzky's ground knowledge and aeronautical decision making as satisfactory and was quite impressed with Mr. Inditzky's safety conscious mindset.

Flight Portion of the Flight Review on April 7th, 2023 in N575ND (1.8 Hours Total)

Pre – Flight Briefing (.3 Hours)

I thoroughly briefed Mr. Inditzky on the events that were to be taken place during the flight in accordance with school policy as well as the FAA's standards for a flight review coming from the FAA Safety Team's guide on "Conducting an Effective Flight Review" as well as Advisory Circular 61-98D. Re-iterated that the flight review is not a test or checkride, but rather a training event in which proficiency is evaluated.

Flight in N575ND (1.1 Hours)

Plan of Action

- Pre-Flight
- Start-Up
- Run-Up
- Normal Takeoff
- Straight Out Departure through Oxnard Class D
- Slow Flight, Power Off Stalls, Power On Stalls, Steep Turns
- Emergency Procedures, Engine Failure
- Pattern Entry Procedures
- Traffic Pattern
- Normal Landings

Post-Flight Briefing (.4 Hours)

Pilot performed to Private Pilot ACS standards. We discussed notes that I took during the flight which have been provided. Mr. Inditzky acknowledged my feedback and was willing to take in my constructive criticism. I asked Mr. Inditzky to return for another flight so we could practice more landings at the Santa Paula Airport to get real world practice with Private Pilot Performance takeoff and landings as well as Non-Towered Radio Communications.

Flight Portion of the Flight Review on April 27th, 2023 in N573ND (2.6 Hours Total)

Pre – Flight Briefing (.3 Hours)

I thoroughly briefed Mr. Inditzky on the events that were to be taken place during the second flight. We reviewed notes from the previous post-flight briefing to take actionable steps to correct some of Mr. Inditzky's weaknesses on this flight.

Flight in N575ND (1.9 Hours)

Plan of Action

- Pattern Work
- Non-Towered Radio Communications
- Short and Soft Field Takeoffs and Landings @ KSZP
- KCMA Pattern Entry via Saticoy Bridge
- Short and Soft Field Landings @ KCMA

Post-Flight Briefing (.4 Hours)

Mr. Inditzky continued to perform to Private Pilot ACS standards. We discussed notes that I took during the flight which have been provided. He handled the unusual traffic pattern at the Santa Paula airport and the environment quite well even though the pattern was saturated. He made significant improvements with his traffic patterns and his landings improved as a result. I drew on the whiteboard the different legs in the traffic pattern along with airspeed and power settings to further solidify the point. Advised him to use the PAPIs and stay higher on glideslope resulting in more stabilized/safe approaches. Talked about actionable steps he can take to keep improving his landings during his solo practice.

Conclusion

I was pleased with the Mr. Inditzky's aeronautical knowledge and decision making during the ground and the two flights. I was confident with Mr. Inditzky's ability to fly the plane safely even in an area that may have been new to him due to the activities and events conducted during his flight review. Mr. Inditzky said that he would be continuing to practice his landings and local area familiarization solo before feeling comfortable enough to take up passengers with him since it has been a longer than anticipated layoff. We concluded by talking about scheduling for the Catalina checkout flight. He would schedule this lesson at a later date.

Issued Endorsement - Completion of a flight review: § 61.56(a) and (c).

Below are my notes taken during my interactions with Mr. Inditzky via the Apple Notes application on my iPad, iPhone, and MacBook Air computer. I originally started to handwrite the notes but found it to be more efficient to type out the topics as well as copy paste the different regulatory topics we went over from the FAAST Team Guide on Conducting an Effective Flight Review for my personal records as suggested in Advisory Circular 61-98D 4.3

Alon Inditzky - Flight Review Client Notes

Flight Review w/ Alon

Regulations

Night Flight

Pave

Imsofe

Alcohol

Logging Night

Airspace

TFRs

Local Airspace

CFIT

Having Physical

Charts or backups

Weather

Metar

TAF

Flight Review with Alon Inditzky 4/7/23

200 Hr Private Pilot

KHRV Airport

7 months since last flown

Primarily flies G1000 C172

Wants to do big bear and catalina Checkouts

Ground Topics Discussed

- Recent Flight experience
- Acting as PIC
 - Needs a Flight Review and Landing Currency to take passengers
- 91.3
- Proficiency v Currency
- Personal Minimums
 - Provided King School's Checklist PAVE Personal Minimums
 - Showed how to develop his own along with
- Fuel Reserves (<3 Hour Hobbs Rule)
- Preflight Action
- Alcohol or Drugs
- Imsafe Checklist
 - Has Special Issuance for Diabetes
- Airworthiness
 - Required Inspections
 - 91.9, 91.205, 91.215, 91.213, 91.409, 91.413, 91.207
- Airport Markings
- Traffic Pattern Entry Procedures
- Altimeter Settings
- Cruising Altitudes
- Right of Way Rules
- Airspace
 - VFR Transition Routes
 - LA SFRA
 - All Local Airspace that he would be flying through on a simulated X/C from Camarillo to Catalina and Back
 - CMA/OXR/NTD Class Delta
 - BUR Class C
 - LAX Class B
 - VFR Transition Routes
 - LA SFRA
 - Need a copy of the LA TAC, Paper or Digital, to fly the route

- Controlled Airspace
 - Class G Airspace
 - Special Use Airspace, TFRs
 - Chart Symbolology
 - VFR Waypoints and Reporting Points
- Best Glide and Glide Ratio
- EFB Usage
 - Garmin Pilot
- Air Traffic Control Clearances, Runway Incursion Avoidance, Radio Communications
- Weather Briefing
 - Metar, TAF, Airmet/Sigmet, Surface Analysis Chart, Difference between a forecast and observation
 - Local Weather phenomenon
 - Santa Ana winds, Marine Layer, Advection Fog
- ACS Special Emphasis Areas
 - CFIT, Runway Incursions, Collision Avoidance, TFRs, ADM (PAVE), Wake Turbulence Avoidance, Checklist Usage

4/7/23 N575ND

Objective:

Flight Plan of Action

Pre-Flight

Start-UP

Run-UP

Normal Takeoff

Straight Out Departure through Oxnard D

Slow Flight, Stalls, Steep Turns

Emergency Procedures, Engine Failure

Pattern Entry

Traffic Pattern

Normal Landings

Flight Notes

- Transition through the airspace to the shoreline and saw how easy it was to request
- Spin Recovery PARE
- Lindbergh Reference, don't need to see in front to know if your

coordinated or not

- Look Outside and fly towards visual reference points
- Steep Turns: Good, Have to hold bank and pitch and make adjustments as necessary. Airplane will overbook past 45 degrees
- Emergency Procedures: Pitched for best glide and found a field, went through memory items and then straight to the checklist that he had for the g1000 from his previous school. Well Done.
- Visual reference points for the pattern
- Good SA
- CMA/OXR Airport Noise Abatement Procedures - Discuss
- 3 Touch and Goes: aiming point was too far forward and the blast pad was causing an illusion where the runway starts
- Round out high and too slow over the threshold on first landing as a result of not having enough power for beginning of the runway

4/27/23 N573ND

Flight Plan of Action

Pattern Work

Short and Soft Field Takeoffs and Landings @ KSZP

Non Towered Radio Comms

Short and Soft Field Landings at KCMA

Flight Notes

KSZP

- Have to be higher especially with the power lines
- Unusual Pattern with Terrain
- 650ft AGL TPA
- Reporting Points
- Can always talk to other planes in regular language and coordinate on CTAF
- Coming back into the practice area from Saticoy Bridge

Consistent Traffic Pattern Procedures

- Airspeed is king and will end up resulting in more consistent landings
- Always thinking about possibility for engine failure especially with extended downwind and a lower TPA due to OXR ILS
- Rather be higher on approach to the rwy, easier to descend than gain altitude
- Best landings were when everything was set up before on downwind earlier in the process



Federal Aviation
Administration

Conducting an Effective Flight Review



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It is intended to be a living document that incorporates comments, suggestions, and ideas for best practices from GA instructors like you. Please direct comments and ideas for future iterations to: susan.parson@faa.gov.

Happy – and safe – flying!

Introduction



General aviation (GA) pilots enjoy a level of flexibility and freedom unrivaled by their aeronautical contemporaries. Airline, corporate, and military flight operations are all strictly regulated, and each uses a significant degree of internal oversight to ensure compliance. GA has relatively few of these regulatory encumbrances. As a result, safety depends heavily upon the development and maintenance of each individual pilot's basic skills, systems

knowledge, and aeronautical decision-making skills.

The purpose of the flight review required by Title 14 of the Code of Federal Regulations (14 CFR) 61.56 is to provide for a regular evaluation of pilot skills and aeronautical knowledge. AC 61-98A states that the flight review is also intended to offer pilots the opportunity to design a personal currency and proficiency program in consultation with a certificated flight instructor (CFI). In effect, the flight review is the aeronautical equivalent of a regular medical checkup and ongoing health improvement program. Like a physical exam, a flight review may have certain "standard" features (e.g., review of specific regulations and maneuvers). However, just as the physician should tailor the exam and follow-up to the individual's characteristics and needs, the CFI should tailor both the flight review and any follow-up plan for training and proficiency to each pilot's skill, experience, aircraft, and personal flying goals.

To better accomplish these objectives, this guide, intended for use in conjunction with AC 61-98A, offers ideas for conducting an effective flight review. It also provides tools for helping that pilot develop a personalized currency, proficiency, risk management, and "aeronautical health maintenance and improvement" program. A key part of this process is the development of risk management strategies and realistic personal minimums. You can think of these minimums as individual "operations specifications" that can help guide the pilot's decisions and target areas for personal proficiency flying and future training.

Step 1: Preparation



Managing Expectations: You have probably seen it, or perhaps even experienced it yourself: pilot and CFI check the clock, spend *exactly* one hour reviewing 14 CFR Part 91 operating rules, and then head out for a quick pass through the basic maneuvers generally known as “airwork.” The pilot departs with a fresh flight review endorsement and, on the basis of the minimum two hours required in 14 CFR 61.56, can legally operate for the next two

years. This kind of flight review may be adequate for some pilots, but for others – especially those who do not fly on a regular basis – it is not. To serve the aviation safety purpose for which it was intended, therefore, the flight review must be far more than an exercise in watching the clock and checking the box.

AC 61-98A states that the flight review is “an instructional service designed to assess a pilot’s knowledge and skills.” The regulations are even more specific: 14 CFR 61.56 states that the person giving the flight review has the discretion to determine the maneuvers and procedures necessary for the pilot to demonstrate “safe exercise of the privileges of the pilot certificate.” It is thus a proficiency-based exercise, and it is up to you, the instructional service provider, to determine how much time and what type of instruction is required to ensure that the pilot has the necessary knowledge and skills for safe operation.

Managing pilot expectations is key to ensuring that you don’t later feel pressured to conduct a “minimum time” flight review for someone whose aeronautical skills are rusty. When a pilot schedules a flight review, use the form in Appendix 2 to find out not only about total time, but also about type of flying (e.g., local leisure flying, or cross-country flying for personal transportation) and recent flight experience. You also need to know if the pilot wants to combine the flight review with a new endorsement or aircraft checkout. Offer an initial estimate of how much time to plan for ground and flight training. How much time is “enough” will vary from pilot to pilot. Someone who flies the same airplane 200 hours every year may not need as much time as someone who has logged only 20 hours since the last flight review, or a pilot seeking a new endorsement in conjunction with the flight review. For pilots who have not flown at all for several years, a useful “rule of thumb” is to plan one hour of ground training and one hour of flight training for every year the pilot has been out of the cockpit. As appropriate, you can also suggest time in an aircraft training device (ATD), or a session of night flying for pilots whose activities include flying (especially VFR) after dark.

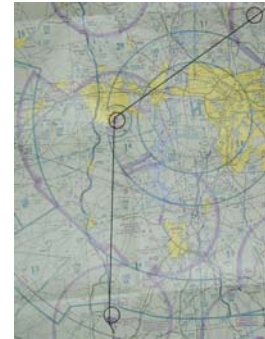
In preparation for the flight review session, give the pilot two assignments.



Review of Part 91: The regulations (14 CFR 61.56) state that the flight review must include a review of the current general operating and flight rules set out in Part 91. The *Aeronautical Information Manual* (AIM) also contains information that pilots need to know. Have the pilot complete the Flight Review Preparation Course now available in the Aviation Learning Center at www.faa.gov/flightreview in advance of your session and bring a copy of the completion certificate to the flight review.

The online course lets the pilot review material at his or her own pace and focus attention on areas of particular interest. Alternatively, provide a copy of the list in Appendix 3 as a self-study guide.

Cross-Country Flight Plan Assignment: Many people learn to fly for personal transportation, but the cross-country flight planning skills learned for practical test purposes can become rusty if they are not used on a regular basis. Structuring the flight review as a short cross-country (i.e., 30-50 miles from the home airport) is an excellent way to refresh the pilot's flight planning skills. Ask the pilot to plan a VFR cross-country to another airport, ideally one that he or she has not previously visited. Be sure to specify that the flight plan should include consideration of runway lengths, weather, expected aircraft performance, alternatives, length of runways to be used, traffic delays, fuel requirements, terrain avoidance strategies, and NOTAM/TFR information. The [GA Pilot's Guide to Preflight Weather Planning, Weather Self-Briefings, and Weather Decision-Making](#) may be of help to the pilot in this part of the exercise. Proficiency in weight and balance calculations is critical as well. If the pilot regularly flies with passengers, consider asking for calculations based on maximum gross weight.



It is within your discretion to require a "manual" flight plan created with a sectional chart, plotter, and E6B. In real-world flying, however, many pilots today use online flight planning software for basic information and calculations. Appropriate use of these tools can enhance safety in several ways: they provide precise course and heading information; the convenience may encourage more consistent use of a flight plan; and automating manual calculations leaves more time to consider weather, performance, terrain, alternatives, and other aspects of the flight. Encouraging the pilot to use his or her preferred online tool will give you a more realistic picture of real-world behavior, and the computer-generated plan will give you an excellent opportunity to point out both the advantages and the potential pitfalls of this method.

Step 2: Ground Review

The regulations (14 CFR 61.56) specify only that the ground portion of the flight review must include “a review of the current general operating and flight rules of Part 91.” This section offers guidance on conducting that review. It also provides guidance on additional topics that you should address. These include:

- Review and discussion of the pre-assigned cross-country (XC) flight plan, with special emphasis on weather and weather decision-making; risk management and individual personal minimums; and
- General aviation security (TFRs, aircraft security, and airport security).

Regulatory Review. Since most GA pilots do not read rules on a regular basis, this review is an important way to refresh the pilot's knowledge of information critical to aviation safety, as well as to ensure that he or she stays up to date on changes since the last flight review or formal aviation training session. If the pilot has completed the online flight review course in advance, you will want to review the results and focus primarily on those questions the pilot answered incorrectly. If the pilot has done nothing to prepare, the chart in Appendix 3 is one way to guide your discussion. You might also organize the rules as they relate to the pre-assigned cross-country flight plan that you will discuss. The important thing is to put the rules and operating procedures into a context that is relevant and meaningful to the pilot, as opposed to the sequential approach that encourages rote memorization rather than higher levels of understanding.



XC Flight Plan Review: At the most basic level, you are reviewing the pre-assigned flight plan for accuracy and completeness (i.e., are the calculations correct? Did the pilot show understanding of the 14 CFR 91.103 requirement to become familiar with “all” available information?) You may want to use the Cross-Country Checklist in Appendix 4 as a guide for checking the completeness of the pre-assigned plan.

If the pilot used automated tools to develop the flight plan, here are some questions and issues that you should teach him or her to ask about the computer-generated package:

- How do I know that the computer-generated information is correct? (*Not all online flight planning and flight information tools are the same. Some provide real-time updates; others may be as dangerous as an out-of-date chart.*)

- Does the computer-generated information pass the “common sense” test? (*Garbage-in, garbage-out is a fundamental principle in any kind of automation. If a pilot headed for Augusta, Georgia (KAGS) mistakenly asks for KAUG, the resulting flight plan will go to Augusta, Maine instead.*)
- Does this plan include all the information I am required to consider? (*Some planning tools compute only course and distance, without regard to wind, terrain, performance, and other factors in a safety-focused flight plan.*)
- Does this plan keep me out of trouble? (*What if the computer-proposed course takes you through high terrain in high density altitude conditions?*)
- What will I do if I cannot complete the flight according to this plan? (*Weather can always interfere, but pilots should also understand that flight planning software does not always generate ATC-preferred routes for IFR flying.*)

Each of these questions is directed to a critical point that you should emphasize: automated flight planning tools can be enormously helpful, but the pilot must *always* review the information with a critical eye, *frequently* supplement the computer’s plan with additional information, and *never* simply assume that the computer-generated package “must be” okay because the machine is smarter.

Asking these kinds of questions is key to critical thinking, which is in turn the secret to good aeronautical decision-making (ADM) and risk management. There are many models for ADM, including charts that provide quantitative assessment and generate a numerical “score” that pilots can use in evaluating the level of risk. Although these tools can be useful, you may want to present the “3-P” method developed by the FAA Aviation Safety Program. This model encourages the pilot to **P**erceive hazards, **P**rocess risk level, and **P**erform risk management by asking a series of questions about various aspects of the flight. The handout in Appendix 5 explains this method in detail.



Since statistics show that weather is still the factor most likely to result in accidents with fatalities, the XC flight plan assignment also provides an important opportunity to discuss weather and weather decision-making. The [GA Pilot’s Guide to Preflight Weather Planning, Weather Self-Briefings, and Weather Decision-Making](#), which uses the 3-P method as a framework for weather decision-making, might be helpful in this discussion. If the pilot flies VFR at night, be sure to talk about night flying considerations, especially in overcast or “no moon” conditions.

GA Security: In the post-September 11 security environment, any security incident involving general aviation pilots, aircraft, and airports can prompt calls for new restrictions. As a flight instructor, you have a special responsibility to

ensure that your clients know and follow basic security procedures. These include not only respect for temporary flight restrictions (TFRs), but also for the importance of securing your aircraft against unauthorized use. Pilots should never leave the aircraft unlocked or, worse, unattended with the keys inside.

In addition, be sure that the pilot knows about the Airport Watch Program, which was developed by the Transportation Security Administration (TSA) and the Aircraft Owners and Pilots Association (AOPA). Airport Watch relies upon the nation's pilots to observe and report suspicious activity. The Airport Watch Program is supported by a government-provided toll free hotline (1-866-GA-SECURE) and system for reporting and acting on information provided by general aviation pilots. A checklist of what to look for is in Appendix 6. For more information



on GA security, see TSA's [GA security website](#) and [AOPA's online GA security resources](#) page.

For specific information on flying in security-restricted airspace, including the Washington DC metropolitan area Air Defense Identification Zone (ADIZ), direct pilots to the FAA's new [online ADIZ-TFR training course](#) and to the Air Safety Foundation's online [airspace training courses](#).

Step 3: Flight Activities

To operate safely in the modern flight environment, the pilot needs solid skills in three distinct, but interrelated, areas. These include:

- “Physical Airplane” Skills (i.e., basic stick-and-rudder proficiency);
- “Mental Airplane” Skills (i.e., knowledge and proficiency in aircraft systems);
- Aeronautical Decision-Making (ADM) Skills (i.e., higher-order thinking skills).



Many flight reviews consist almost exclusively of airwork followed by multiple takeoffs and landings. These maneuvers can give you a very good snapshot of the pilot’s “physical airplane” skills. They are also good for the pilot, who gets a safe opportunity to practice proficiency maneuvers that he or she may not have performed since the last flight review. Airwork alone, however, will tell you little about the pilot’s “mental airplane” knowledge of avionics and other aircraft systems, and even less about the pilot’s ability to make safe and appropriate decisions in real-world flying (ADM). Therefore, you need to structure the exercise to give you a clear picture of the pilot’s skills with respect to each area.

Having the pilot fly the cross-country trip you assigned and discussed in the ground review is a good way to achieve this goal. One leg will involve flying from departure to destination, during which you ensure that the pilot encounters scenarios that let you evaluate the pilot’s systems knowledge (“mental airplane”) and decision-making skills, including risk management. The other leg (which can come first, depending on how you choose to organize the exercise) will focus more on airwork, which allows you to evaluate “physical airplane” skills.

Be sure to include a diversion. Remember the computer-generated flight plan discussed during the ground review portion? While you are en route to the planned destination, give the pilot a scenario that requires an immediate diversion (e.g., mechanical problem, unexpected weather). Ask the pilot to

choose an alternate destination and, using all available and appropriate



resources (e.g, chart, basic rules of thumb, “nearest” and “direct to” functions on the GPS) to calculate the approximate course, heading, distance, and time needed to reach the new destination. Proceed to that point and, if at all feasible, do some of the “physical airplane” pattern work at the unexpected alternate.

The diversion exercise has several benefits. First, it generates “teachable moments,” which are defined as those times when the learner is most aware of the need for certain information or skills, and therefore most receptive to learning what you want to teach. Diverting to an airport surrounded by high terrain, for example, provides a “teachable moment” on the importance of obstacle awareness and terrain avoidance planning. Second, the diversion exercise quickly and efficiently reveals the pilot’s level of skill in each of the three areas:

- *“Physical Airplane” Skills:* Does the pilot maintain control of the aircraft when faced with a major distraction? For a satisfactory flight review, the pilot should be able to perform all maneuvers in accordance with the Practical Test Standards (PTS) for the pilot certificate that he or she holds.
- *“Mental Airplane” Skills:* Does the pilot demonstrate knowledge and proficiency in using avionics, aircraft systems, and “bring-your-own-panel” handheld devices? Since many GA pilots use handheld GPS navigators, you will want to see whether the pilot can safely and appropriately operate the devices that will be used when you are not on board to monitor and serve as the ultimate safety net. Appropriate and proficient use of the autopilot is another “mental airplane” skill to evaluate in this exercise.
- *Aeronautical Decision-Making (ADM) Skills:* Give the pilot multiple opportunities to make decisions. Asking questions about those decisions is an excellent way to get the information you need to evaluate ADM skills, including risk management. For example, ask the pilot to explain why the alternate airport selected for the diversion exercise is a safe and appropriate choice. What are the possible hazards, and what can the pilot do to mitigate them? Be alert to the pilot’s information and automation management skills as well. For example, does the pilot perform regular “common sense cross-checks” of what the GPS and/or the autopilot are doing?



For more ideas on generating scenarios that teach risk management, see the four [pamphlets](http://www.faa.gov/library/manuals/pilot_risk/) available online at www.faa.gov/library/manuals/pilot_risk/.

Step 4: Post flight Debriefing



Most instructors have experienced the traditional “sage on the stage” model of training, in which the teacher does all the talking and hands out grades with little or no student input. There is a place for this kind of debriefing; however, a collaborative critique is one of the most effective ways to determine that the pilot has not only the physical and mental airplane skills, but also the self-awareness and judgment needed for sound aeronautical decision-making. Here is one way

to structure a collaborative post flight critique:

Replay: Rather than starting the post flight briefing with a laundry list of areas for improvement, ask the pilot to verbally *replay* the flight for you. Listen for areas where your perceptions are different, and explore why they don’t match. This approach gives the pilot a chance to validate his or her own perceptions, and it gives you critical insight into his or her judgment abilities.

Reconstruct: The reconstruct stage encourages the pilot to learn by identifying the “would’a could’a should’a” elements of the flight – that is, the key things that he or she *would have*, *could have*, or *should have* done differently.

Reflect: Insights come from investing perceptions and experiences with meaning, which in turn requires reflection on these events. For example:

- What was the most important thing you learned today?
- What part of the session was easiest for you? What part was hardest?
- Did anything make you uncomfortable? If so, when did it occur?
- How would you assess your performance and your decisions?
- Did you perform in accordance with the Practical Test Standards?

Redirect: The final step is to help the pilot relate lessons learned in this flight to other experiences, and consider how they might help in future flights. Questions:

- How does this experience relate to previous flights?
- What might you do to mitigate a similar risk in a future flight?
- Which aspects of this experience might apply to future flights, and how?
- What personal minimums should you establish, and what additional proficiency flying and training might be useful?

Step 5: “Aeronautical Health” Maintenance & Improvement

If the pilot did not perform well enough for you to endorse him or her for satisfactory completion of the flight review, use the PTS as the objective standard to discuss areas needing improvement, as well as areas where the pilot performed well. Offer a practical course of action – ground training, flight training, or both – to help him or her get back up to standards. If possible, offer to schedule the next session before the pilot leaves the airport.

If the pilot’s performance on both ground and flight portions was satisfactory, you can complete the flight review simply by endorsing the pilot’s logbook. However, offer the pilot an opportunity to develop a personalized aeronautical health maintenance and improvement plan. Such a plan should include consideration of the following elements:

Personal Minimums Checklist: One of the most important concepts to convey in the flight review is that safe pilots understand the difference between what is “legal” in terms of the regulations, and what is “smart” in terms of pilot experience and proficiency. For this reason, assistance in completing a [Personal Minimums Checklist](#) tailored to the pilot’s individual circumstances is perhaps the single most important “takeaway” item you can offer. Use the Personal Minimums Development Worksheets in Appendix 7 to help your client work through some of the questions that should be considered in establishing “hard” personal minimums, as well as in preflight and in-flight decision-making.

Personal Proficiency Practice Plan: Flying just for fun is one of the most wonderful benefits of being a pilot, but many pilots would appreciate your help in developing a plan for maintaining and improving basic aeronautical skills. You might use the suggested flight profile in Appendix 8 as a guide for developing a regular practice plan.

Training Plan: Discuss and schedule any additional training the pilot may need to achieve individual flying goals. For example, the pilot’s goal might be to develop the competence and confidence needed to fly at night, or to lower personal minimums in one or more areas. Another goal might be completion of another phase in the FAA’s Pilot Proficiency (“Wings”) Program, or obtaining a complex, high performance, or tailwheel endorsement. Use the form in Appendix 9 to document the pilot’s aeronautical goals and develop a specific training plan to help him or her achieve them.

The flight review is vital link in the general aviation safety chain. As a person authorized to conduct this review, you play a critical role in ensuring that it is a meaningful and effective tool for maintaining and enhancing GA safety.

Appendices

Appendix 1	CFI's Flight Review Checklist
Appendix 2	Pilot's Aeronautical History
Appendix 3	Regulatory Review Guide
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CFI's Flight Review Checklist

Step 1: Pre-Flight Review Actions

- ☐ Scheduling
- ☐ Pilot's Aeronautical History
- ☐ Part 91 Review Assignment
- ☐ Cross-Country Flight Plan Assignment

Step 2: Ground Discussion

- ☐ Regulatory Review
- ☐ Cross-Country Flight Plan Review
- ☐ Risk Management & Personal Minimums

Step 3: Conducting the Flight

- ☐ Physical Airplane (basic skills)
- ☐ Mental Airplane (systems knowledge)
- ☐ Aeronautical Decision-Making

Step 4: Postflight Discussion

- ☐ Replay, Reflect, Reconstruct, Redirect
- ☐ Questions

Step 5: Aeronautical Health Maintenance & Improvement Plan

- ☐ Personal Minimums Checklist
- ☐ Personal Proficiency Practice Plan
- ☐ Training Plan (if desired)
- ☐ Resources List

Pilot's Aeronautical History for Flight Review

Pilot's Name: _____ CFI: _____
Address: _____
Phone(s): _____ e-mail: _____

Type of Pilot Certificate(s):

Private _____ Commercial _____ ATP _____ Flight Instructor _____

Rating(s):

Instrument _____ Multiengine _____

Experience (Pilot):

Total time _____ Last 6 months _____ Avg hours/month _____

Time logged since last flight review _____ Since last IPC _____

Experience (Aircraft):

Aircraft type(s) you fly _____

Aircraft used most often _____

For this aircraft:

Total time _____ Last 6 months _____ Avg hours/month _____

Experience (Flight environment):

Since your last flight review, approximately how many hours have you logged in:

Day VFR _____ Day IFR _____ IMC _____

Night VFR _____ Night IFR _____

Mountainous terrain _____ Overwater flying _____

Airport with control tower _____ Airport w/o control tower _____

Type of Flying (External factors):

What percentage of your flying is for:

Pleasure _____ Business _____ Local _____ XC _____

Personal Skills Assessment:

What are your strengths as a pilot? _____

What do you most want to practice/improve? _____

What are your aviation goals? _____

Regulatory Review Guide

Pilot	Experience: Recent flight experience (61.57) Responsibility: Authority (91.3) ATC Instructions(91.123) Preflight action (91.103) Safety belts (91.107) Flight crew at station (91.105) Cautions: Careless or reckless operation (91.13) Dropping objects (91.15) Alcohol or drugs (91.17) Supplemental oxygen (91.211) Fitness for flight (AIM Chapter 8, Section 1)
Aircraft	Airworthiness: Basic (91.7) Flight manual, markings, placards (91.9) Certifications required (91.203) Instrument & equipment requirements (91.205) -ELT (91.207) -Position lights (91.209) -Transponder requirements (91.215) -Inoperative instruments and equipment (91.213) Maintenance: Responsibility (91.403) Maintenance required (91.405) Maintenance records (91.417) Operation after maintenance (91.407) Inspections: Annual, Airworthiness Directives, 100-Hour (91.409) Altimeter & Pitot Static System (91.411) VOR check (91.171) Transponder (91.413) ELT (91.207)
enVironment	Airports Markings (AIM Chapter 2, Section 3) Operations (AIM 4-3; 91.126, 91.125) Traffic Patterns (91.126) Airspace Altimeter Settings (91.121; AIM 7-2) Minimum Safe Altitudes (91.119, 91.177) Cruising Altitudes (91.159, 91.179; AIM 3-1-5) Speed Limits (91.117) Right of Way (91.113) Formation (91.111) Types of Airspace (AIM 3) -Controlled Airspace (AIM 3-2; 91.135, 91.131, 91.130, 91.129) -Class G Airspace (AIM 3-3) -Special Use (AIM 3-4; 91.133, 91.137, 91.141, 91.143, 91.145) Emergency Air Traffic Rules (91.139; AIM 5-6) Air Traffic Control & Procedures Services (4-1) Radio Communications (4-2 & Pilot/Controller Glossary) Clearances (4-4) Procedures (AIM 5) Weather Meteorology (AIM 7-1) Wake Turbulence (AIM 7-3)
External pressures	Personal Minimums Checklist Risk Management (3-P model) PTS Special Emphasis Items

Pilot's Cross-Country Checklist

PILOT

- ☐ Review Personal Minimums Checklist
 - ☐ Recency (time/practice in last 30 days)
 - ☐ Currency (takeoffs & landings, IFR currency if applicable)
 - ☐ Terrain & airspace (familiarity?)
 - ☐ Health & well-being

AIRCRAFT

- ☐ Overall mechanical condition
- ☐ Avionics & systems
- ☐ Performance calculations
- ☐ Fuel requirements
- ☐ Other equipment

ENVIRONMENT

- ☐ Weather
 - ☐ Reports & forecasts
 - ☐ Departure
 - ☐ En route
 - ☐ Destination
 - ☐ Severe weather forecasts?
 - ☐ Weather stability?
 - ☐ Alternate required?
- ☐ Night
 - ☐ Flashlights available
 - ☐ Terrain avoidance plan
- ☐ Airspace
 - ☐ TFRs or other restrictions
 - ☐ COM/NAV equipment requirements
 - ☐ Cruising altitude(s)
- ☐ Terrain
 - ☐ VFR & IFR charts with MSA / MEA altitudes
 - ☐ AOPA/ASF Terrain Avoidance Planning
- ☐ Airports
 - ☐ COM/NAV requirements & frequencies
 - ☐ Runway lengths
 - ☐ Services available

EXTERNAL PRESSURES

- ☐ Family expectations?
- ☐ Passenger needs / expectations?
- ☐ Weather worries?
- ☐ Prepared for diversion (money, accommodations)?
- ☐ Time pressures (e.g., "must be at work" issues)?

3-P Risk Management Process

Good aeronautical decision-making includes risk management, a process that systematically identifies hazards, assesses the degree of risk, and determines the best course of action. There are many models for risk management, including charts that generate a numerical “score.” Although these tools can be useful, numbers-based tools suggest a level of precision that may be misleading.

An alternative method is the Perceive – Process – Perform risk management and aeronautical decision-making model developed by the FAA Aviation Safety Program. There are three basic steps in this model:



PERCEIVE hazards

PROCESS to evaluate level of risk

PERFORM risk management

PERCEIVE: The goal is to identify hazards, which are events, objects, or circumstances that could contribute to an undesired event. You need to consider hazards associated with:

Pilot
Aircraft
enVironment
External Pressures.

PROCESS: Ask questions to determine what can hurt you. In short, why do you have to **CARE** about these hazards?

What are the **C**onsequences?
What are the **A**lternatives available to me?
What is the **R**eality of the situation facing me?
What kind of **E**xternal pressures may affect my thinking?

PERFORM: Change the situation in your favor. Your objective is to make sure the hazard does not hurt **ME** or my loved ones, so work to either

Mitigate the risk involved, or
Eliminate the risk involved.

General Aviation Security

The Transportation Security Administration (TSA) has partnered with the Aircraft Owners and Pilots Association (AOPA) to develop a nationwide Airport Watch Program that uses the more than 650,000 pilots as eyes and ears for observing and reporting suspicious activity. This partnership helps general aviation keep our airports secure without needless and expensive security requirements. AOPA Airport Watch is supported by a centralized government provided toll free hotline (1-866-GA-SECURE) and system for reporting and acting on information provided by general aviation pilots. The Airport Watch Program includes warning signs for airports, informational literature, and training videotape to educate pilots and airport employees as to how security of their airports and aircraft can be enhanced.

Here's what to look for:

- Pilots who appear under the control of someone else.
- Anyone trying to access an aircraft through force — without keys, using a crowbar or screwdriver.
- Anyone who seems unfamiliar with aviation procedures trying to check out an airplane.
- Anyone who misuses aviation lingo — or seems too eager to use all the lingo
- People or groups who seem determined to keep to themselves.
- Any members of your airport neighborhood who work to avoid contact with you or other airport tenants.
- Anyone who appears to be just loitering, with no specific reason for being there.
- Any out-of-the-ordinary videotaping of aircraft or hangars.
- Aircraft with unusual or obviously unauthorized modifications.
- Dangerous cargo or loads — explosives, chemicals, openly displayed weapons — being loaded into an airplane.
- Anything that strikes you as wrong — listen to your gut instinct, and then follow through.
- Pay special attention to height, weight, and the individual's clothing or other identifiable traits.

Use common sense. Not all these items indicate terrorist activity.

When in doubt, check it out!

Check with airport staff or call the National Response Center
1-866-GA-SECURE!

Developing Personal Weather Minimums

*Note: This worksheet was adapted from the Personal and Weather Risk Assessment Guide (October 2003).
www.faa.gov/education_research/training/fits/guidance/media/Pers%20Wx%20Risk%20Assessment%20Guide-V1.0.pdf.*

Certification, Training, and Experience Summary

Certification	Certificate level (e.g., private, commercial, ATP)	
	Ratings (e.g., instrument, multiengine)	
	Endorsements (e.g., complex, high performance, high altitude)	
Training	Flight review (e.g., certificate, rating, Wings Program)	
	Instrument Proficiency Check	
	Time since checkout in airplane 1	
	Time since checkout in airplane 2	
	Time since checkout in airplane 3	
	Variation in equipment used (e.g., GPS navigators)	
Experience	Total flying time	
	Years flying	
	Hours in previous 12 months	
	Hours in this airplane (or identical model) in last 12 months	
	Landings in last 12 months	
	Night hours in last 12 months	
	Night landings in last 12 months	
	Hours flown in high density altitude in last 12 months	
	Hours flown in mountainous terrain in last 12 months	
	Crosswind landings in last 12 months	
	IFR hours in last 12 months	
	IMC hours (actual conditions) in last 12 months	
	Approaches (actual or simulated) in last 12 months	

Note: Use this part of the worksheet to review your recency and currency before a specific flight.

Suggested Personal Minimums

Weather Condition		VFR Pilot (100-200 hours)	IFR Pilot (300-500 hours)	My Personal Minimums
Ceiling & Visibility				
	Ceiling – DAY VFR	3,000 feet	2,000 feet	
	Ceiling – NIGHT VFR	5,000 feet	3,000 feet	
	Ceiling – IFR APPROACH	n/a	Minimums + 500	
	Visibility – DAY VFR	5 miles	3 miles	
	Visibility – NIGHT VFR	7 miles	5 miles	
	Visibility – IFR APPROACH	n/a	Minimums + ½ mile	
Turbulence (Wind)				
	Surface Wind Speed	15 knots	15 knots	
	Surface Wind Gusts	5 knots	5 knots	
	Crosswind Component	7 knots	7 knots	
Mountain Flying		Consult instructor or mentor		
Overwater Flying		Consult instructor or mentor		
Icing Conditions		n/a	Consult instructor or mentor	

PAVE Personal Minimums Development Guide (PILOT Factors)

Pilot's Name: _____ CFI: _____ Date: _____

Example below assumes total time is < 500 hours; adjust as appropriate for additional experience*

		Go	Risk Mitigation Strategy	No-Go
Recency (last 90 days)	>6 TO & LDG	X		
	3-6 TO & LDG	X		
	0-3 TO & LDG		Work with a CFI (especially if total time < 100 hours).	
Time in Type (make & model in last 90 days)	>9	X		
	5-8	X		
	0-4		Work with a CFI (especially if total time < 100 hours).	
IFR App (in last 90 days, if filing IFR)	> 3	X		
	< 3		Plan practice session in VMC before flying in IMC.	
	0		Work with CFI before filing IFR or flying in IMC.	
IFR Time (in last 90 days, actual or sim)	> 3	X		
	< 3		Plan practice session in VMC before flying in IMC.	
	0		Work with CFI before filing IFR or flying in IMC.	

**AOPA Air Safety Foundation's Nall Report shows that 32% of all GA accidents and 26% of fatal GA accidents involve pilots with total time under 500 hours.*

Physical Condition

		Go	Risk Mitigation Strategy	No-Go
Sleep (last 24 hours)	>6 hours	X		
	5-6 hours		Fly earlier in the day; avoid night flying.	
	< 5 hours			X
Food & Water	3 meals	X		
	Missed meals?		Take time for meal (or light snack / water) before flight; otherwise – NO-GO.	
Alcohol (last 8 hours)	0	X		
	Any amount			X
Drugs/Meds	0	X		
	Prescription?		Confirm that prescription meds are acceptable to FAA.	
	Other?		Do not fly if under the influence of any drug.	X
Stress	Any?		Stress from family, work, or other areas can be a dangerous distraction.	X
Illness	Any?		Do not fly if you are sick – even common colds can be distracting.	X

PAVE Personal Minimums Development Guide (AIRCRAFT Factors)

Pilot's Name: _____ CFI: _____ Date: _____

Performance

		Go	Risk Mitigation Strategy	No-Go
Fuel Reserves (day VFR)	> 1.5 hours	X		
	1 hour	X		
	< 1 hour			X
Fuel Reserves (night VFR)	> 2 hours	X		
	1.5 – 2 hours		Stay within easy range of airport with fuel available at night.	
	< 1.5 hours			X
Fuel Reserves (day or night IFR)	> 2 hour	X		
	< 2 hours			X
Hours (TO & LDGs in type in last 90 days)	3-6	X		
	< 3		Work with a CFI (especially if total time < 100 hours).	
Weight	> MGTOW			X
	< MGTOW	X	If final calculation is close to MGTOW, use precise weights to ensure accuracy.	
CG	In CG range	X		
	Out of CG		Do not operate outside of CG range – redistribute load or do not go!	X
Density Altitude	0-2000	X		
	2000-5000		Carefully calculate performance numbers: TO & LDG, Climb, Cruise.	
	> 5000		Carefully calculate performance; if unaccustomed to high DA ops, do not go!	X
TO & LDG Margins (relative to POH numbers)	> 1000+	X		
	500-1000+		Carefully calculate performance with special attention to chart notes.	
	< 500+			X
Equipment	Avionics		Proficient in operation of all systems?	
	Comm/Nav			
	Charts		Lack of current & appropriate charts is a no-go item!	
	Clothing		Suitable for preflight and enroute conditions.	
	Survival gear		Must have if flying over water, snow, mountains, etc.	

PAVE Personal Minimums Development Guide (ENVIRONMENT Factors)

Pilot's Name: _____ CFI: _____ Date: _____

Airport Conditions (departure & destination)

		Go	Risk Mitigation Strategy	No-Go
X-Wind (assumes max demonstrated XW of 15 knots)	< 5	X		
	5 - 10		Are you current and proficient in crosswind landings?	
	> 10		Work with CFI .	
Runway Length (relative to POH numbers)	> 1000+	X		
	500-1000+		Carefully calculate performance with special attention to chart notes.	
	< 500+			X

Weather Conditions (reports & forecasts)

		Go	Risk Mitigation Strategy	No-Go
Reports (METARS etc)	< 1 hour old	X	Be especially cautious if there are changes (e.g., SPECI reports).	
	1-3 hours old		Get updated weather before departing.	
	> 3 hours old		Do not operate on basis of reports more than 3 hours old.	X
Forecasts (TAFs etc)	< 2 hours old	X		
	2-4 hours old		Be suspicious – especially if TAFs have been amended.	
	4-6 hours old		TAFs are produced for 00Z, 06Z, 12Z, and 18Z. Don't use a "stale" forecast!	X
Icing	Any		Unless you are qualified and your aircraft is certified for flight into known icing, do not attempt to operate light aircraft in forecast icing conditions.	X
T-Storms	Any		Unless you are qualified and your aircraft has thunderstorm avoidance equipment (radar, stormscope, datalink), do not enter clouds when thunderstorms are forecast. If VFR, do not operate unless you can maintain at least 20 nm away from cumulonimbus.	X

Weather Conditions (ceiling & visibility for day VFR)

		Go	Risk Mitigation Strategy	No-Go
Ceiling	> 3000	X		
	1000-3000		Ensure that you are current, proficient, and familiar with surrounding terrain.	
	< 1000		Not legal for VFR.	X
Visibility	> 5	X		
	5		Ensure that you are current, proficient, and familiar with surrounding terrain.	
	< 5		Although legal for VFR, visibility lower than 5 miles creates a higher risk.	X

Weather Conditions (ceiling & visibility for night VFR)

		Go	Risk Mitigation Strategy	No-Go
Ceiling	> 3000	X		
	1000-3000		Terrain considerations are a major factor in the go/no-go decision.	
	< 1000		Not legal for VFR.	
Visibility	> 5	X		
	5		Visibility below 5 miles creates a higher risk, especially at night.	X
	< 5			X
Light	Full moon	X		
	> ¼ moon	X		
	No moon or overcast		Fly IFR or do not go – a large majority of fatal night accidents occur when there is an overcast or no moon.	X

Weather Conditions (ceiling & visibility for IFR)

		Go	Risk Mitigation Strategy	No-Go
Ceiling (relative to IAP minimums)	> 1000	X		
	500-1000	X	Consider not attempting in single pilot IMC operations.	
	minimums		Unless you are current and proficient in IFR procedures and IMC conditions, do not attempt an instrument departure or approach to minimums.	X
Visibility (relative to IAP minimums)	> 2 miles	X		
	1-2 miles+	X		
	< 1 mile		Unless you are current and proficient in IFR procedures and IMC conditions, do not attempt an instrument departure or approach with less than 1 mile visibility.	

Factors to Consider in Number of Instrument Approach Attempts

		Go	Risk Mitigation Strategy	No-Go
Approach Attempts (at same airport)	Total IFR time		Regardless of total time, do not attempt more than 2 approaches.	
	IFR experience in last 90 days		Regardless of recent experience, do not attempt more than 2 approaches.	

PAVE Personal Minimums Development Guide (EXTERNAL PRESSURES)

Pilot's Name: _____ CFI: _____ Date: _____

Trip Planning Considerations

		Go	Risk Mitigation Strategy	No-Go
Tolerance for Delay	> 2 day	X	Be ready for changes in weather that might require a change in your plans	
	1-2 days	X		
	0			X
Available Alternatives for	Passengers		Do not fly if you are under pressure to meet someone else's schedule, unless you have alternative arrangements in place to mitigate the risk.	
	Waiting family			
	Accommodations			
	Alternative transport			
Equipment	Credit cards			
	Money			
	Prescription meds			
	Clothing			

Personal Trip Planning Matrix

		Self	Passenger(s)	Family/Friends/Colleagues at Destination	Risk Mitigation Strategies
PURPOSE of TRIP					
Tolerance for Delay	> 2 day				
	1-2 days				
	0				
Available Alternatives	Accommodations				
	Transport				
	Meals				
	Other?				
Equipment	Money				
	Credit cards				
	Prescription meds				
	Appropriate clothing				

Personal Proficiency Practice Plan

Pilot's Name: _____ CFI: _____
Date: _____ Review Date: _____

VFR Flight Profile – Every 4-6 Weeks:

Preflight (include 3-P Risk Management Process)

Normal taxi, takeoff, departure to practice area.

CHAPS (before each maneuver):

- Clear the area

- Heading established & noted

- Altitude established (at least 3,000 AGL)

- Position near a suitable emergency landing area

- Set power and aircraft configuration

Steep turns (both directions), maintaining altitude within 100' and
airspeed within 10 knots.

Power-off stalls (approach to landing) & recovery.

Power-on stalls (takeoff/departure) & recovery.

Ground reference maneuvers.

Pattern practice:

- Normal landing (full flaps)

- Short-field takeoff and landing over a 50' obstacle

- Soft-field takeoff and landing

Secure the aircraft.

Review your performance.

Schedule next proficiency flight.

Personal Aeronautical Goals

Pilot's Name: _____ CFI: _____
Date: _____ Review Date: _____

Training Goals

_____ Certificate Level (Private, Commercial, ATP)
_____ Ratings (Instrument, AMEL, ASES, AMES, etc)
_____ Endorsements (high performance, complex, tailwheel, high altitude)
_____ Phase in Pilot Proficiency (Wings) Program
_____ Instructor Qualifications (CFI, CFI-I, MEI, AGI, IGI)
Other: _____

Proficiency Goals

_____ Lower personal minimums to:

_____ Ceiling
_____ Visibility
_____ Winds
_____ Precision Approach Minimums
_____ Non-Precision Approach Minimums

_____ Fly at least:

_____ Times per month
_____ Hours per month
_____ Hours per year
_____ XC flights per year
_____ Night hours per month

_____ Make a XC trip to: _____
Other: _____

Aeronautical Training Plan

Resources

Endorsements and Flight Review (AC)

www.airweb.faa.gov/Regulatory_and_Guidance_Library/

GA Pilot's Guide to Preflight Weather Planning, Weather Self-Briefings, and Weather Decision-Making

www.faa.gov/pilots/safety/media/ga_weather_decision_making.pdf

Night Flying

www.aopa.org/asf/safety_topics.html#night

Online Resources for CFIs

www.faasafety.gov

Personal Minimums Checklist

www.faa.gov/education_research/training/fits/guidance/media

Risk Management and System Safety Modules

www.faa.gov/education_research/training/fits/training/flight_instructor/

Risk Management Teaching Tips

www.faa.gov/library/manuals/pilot_risk

Security for GA

www.tsa.gov/public/display?theme=180

Teaching Practical Risk Management

www.faa.gov/library/aviation_news/2005/media/MayJune2005Issue.pdf

Tools for CFIs (AOPA)

http://flighttraining.aopa.org/cfi_tools/