



DFC SAFETY SEMINAR

January 21, 2021

Agenda

01

Meet Your DFC
Safety Team

02

Safety Stats &
Safety Culture
Defined

03

Safety Plans for
2021 at DFC

**This is your pilot speaking.
I'm working from home today**



"I'M NUMBER 1 IN THE PATTERN?"



**"I BETTER SLOW DOWN TO ENJOY
IT"**



SAFETY FIRST

Or at least in the top five anyways.

Introductions

Lauren Scott is a CFI at DFC, instrument and multi-engine rated. She was trained at Purdue University in the Professional Pilot program. Took many years off to focus on raising a family, and returned to flying in 2018.

Fernando Molina is a CFI, Commercial single and multi-rated with instrument. He was a Weapons Systems Officer (backseater) in F-15Es, retiring in 2014 and is currently a fighter flight test analyst at Nellis Air Force Base. He provides content to the flying instructional YouTube channel “Learn The Finer Points” and is applying to become a local FAASTeam member.

Alan Zwick is an ATP, CFI, CFII, and MEI. He flew the KC-135R, T-37, T-38, and U-2 in the USAF from 1986-2000. He is currently a Southwest Captain based at LAS. He has owned a Grumman AA-1B Yankee, and a AA-5B Tiger. He joined DFC July 2020 and looks forward to sharing his passion for General Aviation with other members.

The State of General Aviation Safety

-Commercial aviation in the U.S. boasts a very high aviation safety record (only 1 fatality on an airline flight in 2018, according to Flight Safety Foundation at www.flightsafety.org)

-While non-commercial fixed-wing aviation safety has been rising, sadly our accident rates are still much higher. According to the most complete, recent Joseph T. Nall report for 2018, there were 1033 accidents, including 277 fatalities.

[AOPA video overview of the latest Nall Report](#)

Figure 1.4: General Aviation Accidents in 2018

2018 Non-commercial fixed-wing

	Accidents		Fatal Accidents	
Pilot-Related	675	65.5%	89	54.3%
Mechanical	186	18%	11	6.7%
Other / Unknown	170	16.5%	64	39%

Figure 1.6: Type of operation

2018 Non-commercial fixed-wing

	Accidents		Fatal Accidents		Fatalities	
Air Drop	1	0.1%	0	0%	0	0%
Personal	769	74.4%	134	80.7%	213	78%
Instructional	172	16.7%	12	7.2%	24	8.8%
Public Use	5	0.5%	0	0%	0	0%
Positioning	15	1.5%	4	2.4%	7	2.6%
Aerial Observation	13	1.3%	3	1.8%	4	1.5%
Business	19	1.8%	7	4.2%	15	5.5%
Executive / Corporate	3	0.3%	0	0%	0	0%
Other work use	28	2.7%	4	2.4%	5	1.8%
Other or unknown	8	0.8%	2	1.2%	5	1.8%

Culture of Safety

*From AOPA Article: "Safety: What is a Safety Culture?"
by AOPA Air Safety Institute Staff*

"We are what we repeatedly do...our actions define us. While we may have the best intentions, if we don't act in accordance with those intentions, they are for naught. This concept applies to everything we approach in life, and especially so in aviation, where as we know, the margins for error are thinner.

"Every pilot intends to be a safe, conscientious pilot. Yet every year, pilots do things... that are counter to those intentions....We are what we repeatedly do.

"So if we as pilots consistently act in a safe manner, we start creating an individual set of good practices that then carry over to whatever group we're a part of. This is what becomes our safety culture."

Culture of Safety (cont.)

“So for pilots, a safety culture could be...: **“the set of shared attitudes, goals, and practices of everyday existence toward increased safety in aviation.”**

Therefore: “What can a pilot do every day to instill a more safety conscious approach to our flying?”

Developing a Culture of Safety at DFC

How do we encourage and develop a strong Culture of Safety at DFC?

- Talk about it often!
 - Offer monthly safety meetings
 - Train pilots in ADM and safety/risk management in initial, ongoing training, and checkouts
 - Offer safety focus of the day, emergency procedure of the day
 - Encourage, highlight and reward participation in the FAA WINGS pilot proficiency program
- Establish a “safety bulletin board” at the clubhouse to post safety-related notices
- Offer remedial training when necessary
 - Safety concerns can be reported to chief CFI (Gary), BOD, or Safety Team for review and corrective action
- Offer a clear way to report safety issues, suggestions, or concerns
 - report/check aircraft maintenance squawks in Flight Schedule Pro

safety@desertflyingclub.com

Daily Safety Focus

EP of the day

Desert Flying Club EP of the Day

	EP of Day
1	<u>Eng</u> failure on <u>take-off</u> (no runway remaining)
2	Avionics failure (pick one or total failure)
3	<u>Pitot</u> static Failure (total or pick clogged static port or <u>pitot</u> tube)
4	Smoke and/or fumes in the cockpit
5	Wingtip electrical fire
6	Engine fire on start
7	Forced landing (partial power or no power)
8	High oil pressure/loss of oil pressure/Slowly decreasing oil pressure indications
9	Bird strike (pick a location and amount of damage and discuss)
10	Inadvertent flight into IMC
11	Stuck/damaged flight control (pick one –what are the effects? How to recover with it)
12	Cockpit electrical fire
13	Icing on strut or other surface (high wing) or canopy screen wings (low wing)
14	Engine failure on takeoff (prior to rotate)
15	Landing with a flat tire (pick nose wheel or main tire and discuss)
16	Throttle cable failure (stuck in intermediate RPM or stuck at full RPM)
17	Carbon monoxide in the cockpit (how? What to do?)
18	Stall/Spin avoidance and recovery
19	Magneto malfunction (indications, what to do about it)
20	Engine failure on takeoff (< 1000 <u>ft</u>)
21	Flap malfunction

Daily Safety Focus

Topic of the day

Desert Flying Club Topic of the Day

	Topic of Day
1	Risk Management/Aeronautical Decision Making (PAVE, IMSAFE, 3Ps, 5Ps)
2	Review/discuss personal minimums
3	Loss of control accidents
4	Controlled flight into terrain
5	Spatial disorientation
6	180° turn after entry into IMC
7	Turbulence, ways to detect (weather products)
8	5 stages of thunderstorms
9	Types of Icing
10	Filing a VFR/IFR flight plan in-flight
11	Types of airspace (clearance required, equipment required, VFR minimums)
12	Cockpit management with electronic devices (divided attention, prioritization, how to recover if they fail, etc.)
13	Runway incursion avoidance (review runway markings, clearances required for towered, non-towered)
14	Midair collision avoidance (high risk areas, scan techniques)
15	What is required for airworthiness?
16	Weight and balance (talk about it, dangers of excessive forward/aft CG, out of limits, hand calculate it for today's flight using the POH/AFM)
17	Right of way rules
18	How to safely recover if lose lighting at night
19	Cabin door/storage door unlatched/unsecure in flight
20	Fuel management (indications, techniques for monitoring, indications of abnormal high fuel flow or a leak)
21	Safely regaining proficiency after not flying for a period of time

Daily Safety Focus

EP and Topic of the day

- Make some safety topic a part of your daily safety routine and it will soon become habit pattern
- Safety studies show that regular Safety focus in flight programs and continuation training (such as WINGS courses) significantly lowers accident risk

HOW IT WORKS

- EP of the day and a Topic of the day will be posted at the entrance to DFC
- Take a look at the day you are flying and discuss that topic as part of your flight brief
 - Doesn't have to be more than 5 minutes, but well worth the review
 - Make it specific to your flight that day (weather, area you will be flying, aircraft, passengers, etc)
- Make it part of your daily flight briefs or assign as homework to students
- Look up the real references, if possible look it up in the POH, PHAK, AFH, etc
 - AOPA and FAASafety.gov have great resources for many subjects

FAAST WINGS Program

AC 69-91J Dated : 2/16/11 outlines WINGS-Pilot Proficiency Program

-Program Purpose

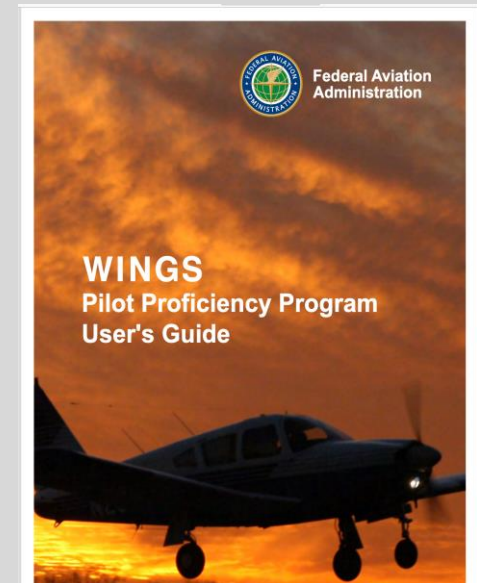
- Reduce GA accidents through educational opportunities to assess and manage risk
- Increase pilot proficiency
- Pilots who are proficient are more confident and enjoy flying more.

-How WINGS Works

- Fly a WINGS flight with a CFI
- Attend a Safety Seminar (like what you are doing today!)
- Attend approved Webinar or Course (FAA, AOPA, NAFI, etc)
- WINGS participation counts for your flight review

How to participate in WINGS

- Go to FAA Safety Homepage: www.faa.gov/safety
- Create an Account
- My Preferences and Profile
- WINGS Profile



FAA Safety Homepage: [www.faa.gov](https://www.faa.gov/education/training/FAASTeam)

Safer Skies Through Education - FA X

https://www.faa.gov

Home About the FAASTeam

Searches Only Learning Center and Document Library Search

Activities, Courses, Seminars & Webinars Maintenance Hangar Pilots Resources Page Help

FAA Safety Team | Safer Skies Through Education

Featured Courses


Earn WINGS or AMT Credit by completing one of our featured online courses!

- * A Case For Non Technical Training (AMT Core Course for 2021)
- * The Buck Stops with Me
- * Part 107 Small Unmanned Aircraft Systems (small UAS) Recurrent
- * Part 107 Small Unmanned Aircraft Systems (small UAS) Initial
- * DC SFRA

[View Catalog](#)

Hot Topics

Aviation Maintenance Alerts



Select the Eagle to Read Reports

[Select this Link to Submit a Report](#)

[Previous](#) [Next](#)

Upcoming Seminars

Thousands of aviation safety seminars take place annually around the nation. Find one near you.

Zip: miles

[Find Seminars](#)

AMT Awards Program

The AMT Awards program encourages AMTs and employers to take advantage of initial and recurrent training by issuing awards based on training received.

- * [Tutorial for Individuals](#)
- * [Tutorial for Employers](#)

5,654 AMT Awards Earned in 2020

[Learn more](#)

FAASTeam Directory

Search by phone number, first or last name, city or state, position or keyword.

[Click here to find FAASTeam leaders in your state.](#)

FAASTeam Industry Members


FAASTeam Industry Members are industries, organizations, businesses and associations that support the FAASTeam at a national level and who have a vested interest in aviation safety. Click below for more information.

- * [Florida Aviation Network](#)
- * [Gleim Publications](#)
- * [Global Jet Services Inc.](#)

FAA YouTube



WINGS Achievements



We are excited to report that 43,041 pilots have earned at least one phase in the **WINGS** - Pilot Proficiency Program, and these pilots have earned a total of 177,669 phases.

[See the list and find your name](#)

WINGS [AC 61-91J](#)



[WINGS - Learn More!](#)



[Quick WINGS Log In](#)

[User Guide](#)

Instructor Portal

By virtue of holding instructor privileges, instructors can validate or give immediate WINGS credit through this portal.

[Click Here](#) to give immediate WINGS flight credit.

[WINGS Flight Instructor Guide](#)

[Enter Instructor Portal](#)

LOGIN TO YOUR ACCOUNT

Welcome Guest [Login Here](#)

Login: [My Email Has Changed](#)

Password: [Forgot Password](#) [Help](#)

New to FAASafety.gov?

[Create an Account](#) | [About FAASTeam](#)

My Preferences and Profile

The screenshot displays the FAA Safety Team website interface. At the top, the browser address bar shows the URL <https://www.faasafety.gov/default.aspx>. The website header includes the Federal Aviation Administration logo and navigation links for Home, About the FAASafety Team, and a search bar. Below the header, a main navigation bar lists various sections: Activities, Courses, Seminars & Webinars, Maintenance Hangar, Pilots, Resources, and Administration. The central content area is titled "FAA Safety Team | Safer Skies Through Education" and features several modules. On the left, there are sections for "Featured Courses" (listing online courses for WINGS or AMT credit), "AMT Awards Program" (describing the program and providing a tutorial), and "FAASafety Team Directory" (a search tool for finding leaders). The middle section contains "Hot Topics" (with a "FLY SAFE Fact Sheets" graphic), "Upcoming Seminars" (listing a member meeting on 01/20/2021), "WINGS" (showing flight review expiration dates and highest phases achieved), "Instructor Portal" (providing instructions for validating flight credit), and "FAASafety Team Industry Members" (listing various aviation organizations). On the right, a user profile box for "a.w.zwick@gmail.com" is visible, with a "Logout" link. Below this, the "My FAASafety.gov Account" section includes links for "My Preferences and Profile", "Change My Email Address", and "Change My Password". Further down, the "FAASafety.gov Help" section offers "FAQs", and the "Common Tasks" section provides links for "Print Course Certificates" and "View My Activity History". At the bottom right, the "WINGS Achievements" section reports that 43,041 pilots have earned at least one phase in the WINGS - Pilot Proficiency Program, with a link to "See the list and find your name".

WINGS Profile


Pilots - Account Preferences - FAA

← → ↺ 🏠

🔒 https://www.faa.gov/Users/pub/preferences.aspx

📄 ⋮ 📌 ⭐

📄 📄 📄 📄 📄 📄 📄 📄 📄 📄



Federal Aviation
Administration

Searches Only Learning Center and Document Library

Activities, Courses, Seminars & Webinars Maintenance Hangar **Pilots** Resources Administration [Page Help](#)

Award Programs | Instructor Portal | [My WINGS](#) | Team Rewards | WINGS – Learn More | Wright Brothers Master Pilot Award

Account Preferences

You may change your FAA.gov account preferences using the tabs below. Select the tab corresponding to the data you wish to review and change and be sure to press the "Save" button in each tab once your changes are complete. Click [here](#) to return to the Home Page.

General Email & Password **WINGS Profile** Certificates & Ratings Airman Registry Seminar Preferences Other Close My Account

WINGS Participation

Thank you for choosing to participate in the WINGS program.

[Print Your Basic Checklist](#) [Print Your Advanced Checklist](#) [Print Your Master Checklist](#)

Categories, Classes, & Certificates

These selections are used to assist in searching for Accredited Activities that interest you or that you plan to use while participating in the **WINGS** program. Select only those you plan to use to help focus the activities shown on your WINGS page. You may change your selections at any time.

Aircraft Categories and Classes (☐ all)

☒ Airplane Single Engine Land
☐ Airplane Single Engine Sea
☒ Airplane Multiengine Land
☐ Airplane Multiengine Sea
☐ Glider
☐ Lighter-than-Air Airship
☐ Lighter-than-Air Balloon
☐ Powered Parachute Land
☐ Powered Parachute Sea

Certificates (☐ all)

☐ Authorized Instructor
☒ Commercial Pilot
☒ Flight Instructor
☒ Instrument Rating
☒ Private Pilot
☐ Recreational Pilot
☐ Sport Pilot
☐ Student Pilot
☐ sUAS-Small Unmanned Aircraft System

Flight Review Date

As you participate in the WINGS program, your flight review date will be updated each time you earn enough credits to complete the Basic phase. However, if you have a more recently earned flight review date, enter it below.

Last Flight Review Date

Type this date as MM/DD/YYYY, or use the date selector by clicking on the icon to the right.

📅

Flight Review Effective: 12/30/2020
Expiration Date: 12/31/2022
Based on: Airman Provided Information

My WINGS

Pilots - My WINGS - FAA - FAASTeX

https://www.faa.gov/WINGS/pub/default.aspx

To print your WINGS completion certificate, go to your WINGS Logbook and click on the Phase number. Then click on the "Print Certificate for Phase x" link.

Basic WINGSAdvanced WINGSMaster WINGSWINGS Logbook

You must complete a Phase of WINGS at the Basic Level before you can receive a Phase at a higher Level.

Basic WINGS - Phase 1

Started on 01/14/2021 (Must be completed before 01/31/2022)

Print Your Checklist

Knowledge Activities

TOPIC	TYPE	TITLE	STATUS	SEARCH
Knowledge Topic 1 1 Credit	Course ALC-82	Do the Right Thing: Decision Making for Pilots	Enroll	Find Alternate Activities
Knowledge Topic 1 ½ Credit	Flight SAW-Pro/CFI UPRT	Professional Upset Prevention and Recovery Training	When Complete Request Credit	Find Alternate Activities
Knowledge Topic 2 1 Credit	Flight SAW-Pro/CFI UPRT	Professional Upset Prevention and Recovery Training	When Complete Request Credit	Find Alternate Activities
Knowledge Topic 3 1 Credit	Seminar NR03103230	Proficiency 101 - Create Your Personalized Plan for Safe Flight	Completed 1/14/2021	

Flight Activities

TOPIC	TYPE	TITLE	STATUS	SEARCH
Flight Topic 1 1 Credit	Flight A070405-01	AMEL-Takeoffs, Landings, Basic Instruments (Pvt, Comm1, ATP) ...	When Complete Request Credit	Find Alternate Activities
Flight Topic 2 1 Credit	Flight SAW-Pro/CFI UPRT	Professional Upset Prevention and Recovery Training	When Complete Request Credit	Find Alternate Activities
Flight Topic 3 1 Credit	Flight A100125-01	AMEL-Airport Operations (Pvt, Comm1, ATP)	When Complete Request Credit	Find Alternate Activities

Old WINGS Program:

[Update or I didn't participate.](#)

WINGS Tools

[WINGS Profile](#)

[External Credit Review](#)

[Help](#)

WINGS Credit History Timeline

Because earned WINGS credits are only good for one year, the timeline below will help you track when your current credits expire. Move your mouse over the small rectangle in any month with data to see the details of the credits earned.

WINGS Checklist

Pilots - My WINGS - FAA - FAASTeam - FAASafety.gov

https://www.faa.gov/WINGS/pub/CheckListPrintable.aspx?phase=Basic



WINGS Checklist for

ALAN ZWICK
(A.W.ZWICK@GMAIL.COM)

You Are Working on **Basic** - Phase 1

Choose Your Category

- Single Engine Land
- Multi Engine Land
- Single Seaplane
- Helicopter
- Balloon
- Glider
- Other

The **WINGS** program requires that you complete 3 Knowledge credits and 3 Flight credits.
Your **WINGS** Checklist below shows you what you need to do to complete your **Basic** - Phase 1.

- Want different Knowledge Activities? Search for others on your [My WINGS](#) page.
- Flight Activities are not appropriate? Go to your [WINGS Profile](#) to change them.

[Print this WINGS Checklist using your browser print function.](#)

Complete Your Knowledge Activities

☐ **Do the Right Thing: Decision Making for Pilots**
(Not Yet Completed) [Click Here](#) to enroll in this course Course: ALC-82
1 Credit for Knowledge Topic 1

In flying, making the right choices isn't always easy. This course offers some simple but effective ways to improve your aeronautical decision making skills—no psychology degree required! This course is an AOPA Air Safety Foundation Online Course and is eligible for WINGS credit after completion through their web site.

☐ **Positive Aircraft Control**
(Not Yet Completed) [Click Here](#) to enroll in this course Course: ALC-36
1 Credit for Knowledge Topic 2

This course explores scenarios and common traps where pilots fail to maintain positive aircraft control and is designed to increase awareness of potentially hazardous situations.

WINGS Flight Syllabus

The screenshot shows a web browser window with two tabs: "Pilots - My WINGS - FAA - FAASTeam" and "Administration - Syllabus Information". The address bar shows the URL: https://www.faa.gov/WINGS/pub/syllabi/syllabusViewer.aspx?sid=375#Private_Pilot_Airplane. The page content is titled "PRIVATE PILOT - AIRPLANE - ASEL/ASES/AMEL/AMES - ACS".

Below the title, there is a link: [Private Pilot - Airplane Airman Certification Standards \(FAA-S-ACS-6A, Change 1\)](#).

The main content is organized into sections:

- **Flight** – perform the applicable tasks from the [Private Pilot - Airplane Airman Certification Standards \(FAA-S-ACS-6A, Change 1\)](#):
- AREAS OF OPERATION:**
 1. PREFLIGHT PREPARATION
 2. PREFLIGHT PROCEDURES
 - Preflight Assessment
 - Flight Deck Management
 - Engine Starting
 - Taxiing (ASEL, AMEL)
 - Taxiing and Sailing (ASES, AMES)
 - Before Takeoff Check
 3. AIRPORT AND SEAPLANE BASE OPERATIONS
 - Communications, Light Signals, and Runway Lighting Systems
 - Traffic Patterns
 4. TAKEOFFS, LANDINGS, AND GO-AROUNDS
 - Normal Takeoff and Climb
 - Normal Approach and Landing
 - Soft-Field Takeoff and Climb (ASEL)
 - Soft-Field Approach and Landing (ASEL)
 - Short-Field Takeoff and Maximum Performance Climb (ASEL, AMEL)
 - Short-Field Approach and Landing (ASEL, AMEL)
 - Confined Area Takeoff and Maximum Performance Climb (ASES, AMES)
 - Confined Area Approach and Landing (ASES, AMES)
 - Glassy Water Takeoff and Climb (ASES, AMES)
 - Glassy Water Approach and Landing (ASES, AMES)
 - Rough Water Takeoff and Climb (ASES, AMES)
 - Rough Water Approach and Landing (ASES, AMES)
 - Forward Slip to a Landing (ASEL, ASES)
 - Go-Around/Rejected Landing
 5. PERFORMANCE AND GROUND REFERENCE MANEUVERS
 6. NAVIGATION
 7. SLOW FLIGHT AND STALLS
 8. BASIC INSTRUMENT MANEUVERS
 9. EMERGENCY OPERATIONS
 - Emergency Descent
 - Emergency Approach and Landing (Simulated) (ASEL, ASES)
 - Systems and Equipment Malfunctions
 - Emergency Equipment and Survival Gear
 - Engine Failure During Takeoff Before VMC (Simulated) (AMEL, AMES)
 - Engine Failure After Liftoff (Simulated) (AMEL, AMES)
 - Approach and Landing with an Inoperative Engine (Simulated) (AMEL, AMES)

WINGS Bottom line, What's in it for me?

- Becoming a more confident and proficient pilot
- Credit for your flight review after completing a WINGS phase
- You will enjoy flying more and your passengers will be impressed with your new skills
- Complete one WINGS activity each month and be entered in a yearly DFC drawing for cool prizes

Safety Seminar Topic Ideas

-Suggested topics:

- Loss of a/c control

- Radio comms/ procedures at towered and non-towered airports

- Weather briefings

- When to declare an emergency/what to expect

- Developing personal minimums

- Visiting fun and new locations

- Preparing for check rides

- Mountain flying hazards

Other ideas? Please email **safety@desertflyingclub.com**

Upcoming 2021 Safety Seminars

Feb 18 – Aeronautical Decision Making

Mar 18 – Weather Briefings

Thank you for joining us tonight! Let's work together to
make 2021 our safest flying year yet!