



March 2018 Number 3
Experimental Aircraft Association
Chapter 135
News



Next Chapter Meeting ✦ Saturday, March 10, 2018

Todd Freeland has recently completed an upgrade on his 182 and will discuss the process.

Additionally, we will do a series of roundtable discussions. We are asking that anyone who is considering or decided upon an ADS-B Out solution to bring info on whatever unit rates highest in their considerations to share with others. We will have an Ask The CFI session with discussions on Foreflight and other EFBs. And one of my favorites, catching up on what we have been up to over the winter and what our aviation plans are for the upcoming flying season.

There will be a board meeting at 5:00 with emphasis on plans for programs and activities for the upcoming months. As always, the board meeting are open to everyone and we welcome your input and ideas.

What is the Aviation Technology Academy?

The Aviation Technology Academy (ATA) program is unique. In existence since 1943 it is one of only two Federal Aviation Administration Airframe and Powerplant (A&P) Part 147 high school level programs in the United States. The Des Moines Public Schools A&P program is a federally sanctioned program that allows high school students and adults to be trained as FAA Certified mechanics. The Aviation program is unique among the offerings available to Central Campus students due to being the only program where a student can not only obtain a Federal A&P license that allows them to immediately obtain employment in the aircraft industry, a field that is in desperate need of technicians and pilots.

AND

Earn an Associates Degree along with their federal Certifications. This is due to their affiliation with Indian Hills Community College which has an adults only companion A&P program and is the college accrediting agency for the ATA.

The ATA is also unique because it also offers post high school students the ability to either complete Certification requirements (if not finished in high school) or start the Airframe,

Powerplant or Pilot training programs. Some students have chosen to complete their Certification post high school. Post high school course work is paid for by the students, not DMPS, as for all Central Campus adult students.

The program also offers FAA Part 141 pilot training and is open to high school, post high school students and adults. The Pilot program includes online ground school with interactive classroom instruction and an FAA approved Aviation Flight Training Device, or AFTD (Flight Simulator).

The program is divided into four main areas of study: General, Airframe, Powerplant and Pilot Training. FAA Certificates certify that the student is qualified to work on aircraft with separate certificates for Airframe and for Powerplant. A student may work on one or both during their time in the program, depending on their desire of study.

The Program teaches all aspects of how to operate, diagnose and repair aircraft from the standpoint of the mechanic and the pilot, including:

1. The theory of flight dynamics, fixed wing and rotary
2. Troubleshooting of flight systems
3. Periodic Maintenance requirements
4. Inspection and Repair of airframe components
5. Inspection and Repair of powerplants (reciprocating & turbine aircraft engines)

In the A&P course a greater variety of technical skills are taught than taught in all high school programs combined. So a student who is inclined toward a technical career is exposed to a wide variety of possibilities, not just aviation. This includes:

1. Electricity (three levels of theory and application)
2. Hydraulics and pneumatics
3. Fine woodworking
4. Sheet metal construction, forming and repair
5. Welding (gas, MIG and TIG)
6. Composites and fabrics (including carbon fiber and Kevlar)
7. Hand tool and Power tool uses
8. Precision measuring and calibrating tools (both mechanical and electrical)
9. Variety of highly sophisticated testing instruments
10. Nondestructive testing methods
11. Painting methods and application
12. Mathematics
13. Physics
14. How to read and understand governmental & industrial technical manuals, diagrams and schematics

All classes are approved for and eligible for Military benefits as well as State and Federal student loans.

The Aviation Technology Academy is a unique and valuable resource for all the central Iowa students and adults. The skills learned at the Academy are applicable to a large number of industries seeking people with technical skills.

Submitted by Ralph Briggs



Des Moines
Aviation Technology Academy Tour
February EAA Chapter 135
Meeting Field Trip



Des Moines
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We have \$280 in YE credits this year so beat the bushes for an applicant to go to EAA air academy. Got a text from a former YE, 2 years ago we gave him a ride and several subsequent rides as he displayed a keen interest. This summer he earned his private license and is attending Embry riddle for aeronautical science and ATP ratings. This was a serious kid, after the first flight I asked him what his aviation interest was and he said " I want to be a captain for South West Airlines". On about his 4th "YE" flight I asked what maneuvers he wanted to do "stalls and slow flight" was the response. So the program works as intended :)

SPACE BALLET

A.J. Hummel, EAA Chapter 135, Vice President



I've been fortunate in my life time to watch just about every space launch, as a kid on the television set in the living or nowadays on the computer. The Space X launch of their Falcon Heavy test rocket and release of a Tesla automobile in space was very cool. How exciting it was to see a new age of space exploration unfolding before our eyes. We've come a long way since the first Mercury launch in the early sixties (1961 actually). Some may be too young to remember, while others may have a favorite mission which might have been of significant importance. Still, we remember that one mission which went wrong and

brought our nation to a standstill and our flags to half-staff. Motionless, we prayed for those astronauts that succumb to circumstances beyond their control. This type of flight is high risk to say the least, although Starman didn't have a lot of training but earned a slot in history never to be seen or heard from again as he rode off in the Tesla. The short eleven minute launch of the most powerful rockets to date was in itself unbelievable while the Tesla release was something poems are written of or others may see it as a ballet. I'm not schooled in fine arts but I chose the latter.

Pilots learn to manage RISK which is somewhat less or perhaps a different type than an astronaut deals with although the outcome will be the same if you fail to identify, assess severity, what's the probability, accept it and mitigate. So safe flying and manage that RISK. Review the official RISK Management handbook for a additional information and refresher. https://www.faa.gov/regulations_policies/handbooks_manuals/aviation/media/aa-h-8083-2.pdf

Risk Assessment

3 SM visibility—is it a risk?

- For a student pilot?
- 100 hr VFR-only private pilot?
- 500 hr IFR pilot flying in the mountains
- 1,000 hr IFR pilot with 5 hr experience in a glass cockpit?
- 1,500 hr ATP pilot flying in busy airspace?

Photo AOPA Gallery

FAA/Team CFI Workshop 5, Core Topic 10
October 1, 2011

Federal Aviation Administration 16

WEATHER	Improv- ing	Deteri- orating	Yes	No
Starting point				
Ceiling within 500' VFR				
WX mins				
WX at VFR Mins				
WX below VFR Mins				
En route				
Ceiling within 500' VFR				
WX mins				
WX at VFR Mins				
WX below VFR Mins				
Destination				
Ceiling within 500' VFR				
WX mins				
WX at VFR Mins				
WX below VFR Mins				
IFR				
WX for IAP to be flown < 2000-3				
Alternate airport required				
Forecast WX at alt. < 800-2				
WX at or below 400-1				

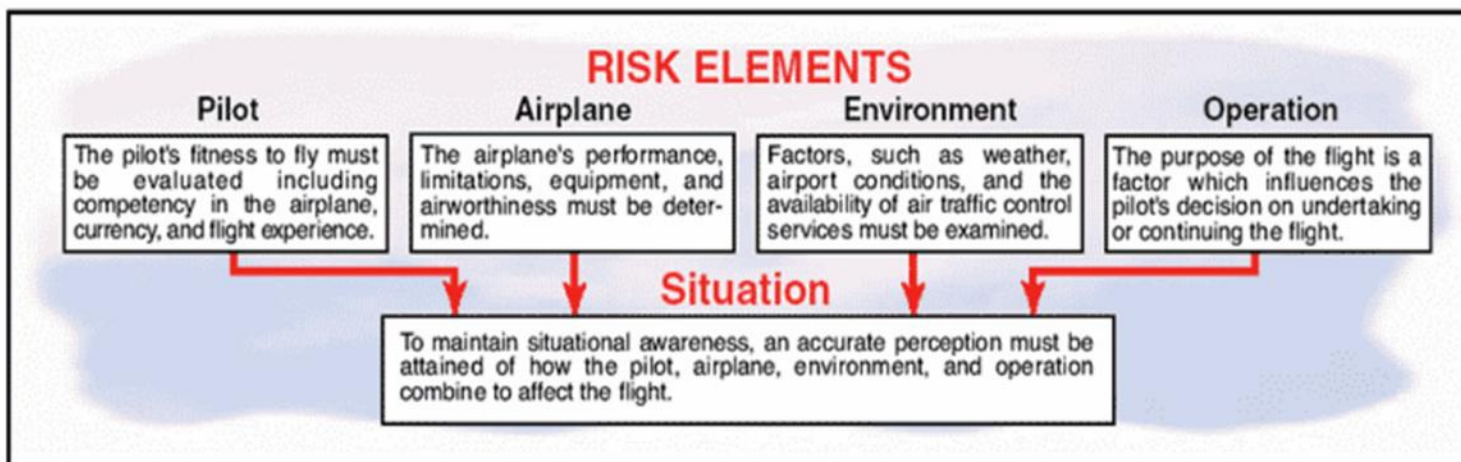
MISSION PROFILE	Yes	No
Night		
Scene, new LZ or no IAP within 5 miles		
Concerns related to availability of fuel		
Terrain (mountainous)		
WX within 500' of tulas at destination/alt		
Pilot not recent on IAP to be flown		
Flight conducted overwater		
Winds > 30 kts, gusts > 15 kts		
Severe WX, icing, thunderstorms		

Overall assessment: Can the mission be completed as requested?

Totals from the Weather Chart: For any more than 6 shaded items checked "Yes," exercise extreme caution and re-brief options.

If "Yes" box and adjacent "Deteriorating" box are checked, VFR flight is not recommended or flight should be rejected.

Combined Totals from the Weather and Mission Profile Charts: For any more than 6 items checked "Yes," exercise extreme caution and re-brief options. If in excess of 10 items checked "Yes" or shaded, flight should be rejected.



Iowa State University's
Flying Cyclones

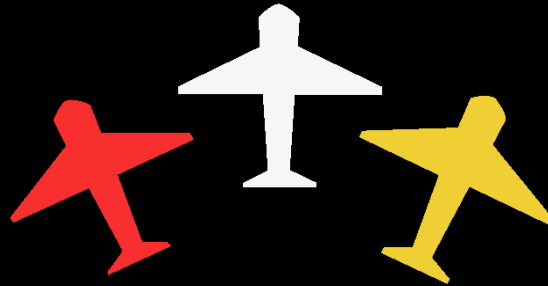
Ames Fly-In

Saturday April 21st

7am-11am

Ames Municipal Airport

Come to the airport to
check out cool
airplanes and see them



in action! All-you-can-eat pancake breakfast
and airplane rides available at this
family-friendly open house.

Fly in or Drive in Pancake Breakfast

Pilot-in-Command - Free

Adults - \$10

Children 12 & under - \$6



Questions?

www.flying.stuorg.iastate.edu/

Email: flying@iastate.edu

Find us on Facebook! 

Iowa Department of Transportation Office of Aviation Calendar

MARCH 2018

SUNDAY, MARCH 17

Ottumwa Regional Airport (OTM)

Iowa 99s monthly meeting

11 a.m. - 3 p.m.

Phone: 563-650-0342 (Jenny Myren)

Email: iowa@ncs99s.org

Facebook: Iowa 99s

Website: <http://iowa.ncs99s.org>

APRIL 2018

SATURDAY, APRIL 21

Ames Municipal Airport (AMW)

Iowa State Flying Cyclones

Fly-in Breakfast

7 a.m. - 11 a.m.

Email: awinter@iastate.edu

Website: www.flying.stuorg.iastate.edu/ames_flyin.php

Estherville Municipal Airport (EST)

Iowa 99s monthly meeting

11 a.m. - 3 p.m.

Phone: 563-650-0342 (Jenny Myren)

Email: iowa@ncs99s.org

Facebook: Iowa 99s

Website: <http://iowa.ncs99s.org>

WEDNESDAY, APRIL 25 - FRIDAY, APRIL 27

2017 Iowa Public Airports Association Conference

Renaissance Hotel

Des Moines, Iowa

515-727-0667 (Sue Heath)

Email: sheath@iowaairports.org

Website: www.iowaairports.org

MAY 2018

SATURDAY, MAY 12 - SUNDAY, MAY 13

Iowa City Municipal Airport (IOW)

Iowa 99s compass rose painting

9 a.m. - 5 p.m.

Phone: 563-650-0342 (Jenny Myren)

Email: iowa@ncs99s.org

Facebook: Iowa 99s

Website: <http://iowa.ncs99s.org>

JUNE 2018

SUNDAY, JUNE 17

Carroll Municipal Airport (CIN)

Iowa 99s monthly meeting

11 a.m. - 3 p.m.

Phone: 563-650-0342 (Jenny Myren)

Email: iowa@ncs99s.org

Facebook: Iowa 99s

Website: <http://iowa.ncs99s.org>

JULY 2018

MONDAY, JULY 23 - SUNDAY, JULY 29

EAA AirVenture

Oshkosh, WI

920-426-4800

Email: communications@eaa.org

Website: www.airventure.org

Name:

EAA No.:

Address:

Phone:

Email:

Dues are \$20.00 per year. Dues are due July 1 and run through June 30. After January 1 you may pay \$30.00 for 1½ years.

LIFETIME MEMBERSHIP DUES ARE \$200.00 You must be a member of the National EAA

Mail dues to: Brant Hollensbe 1232 65th Place West Des Moines, IA 50266



EAA Chapter 135

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Chapter 135 Officers 2018

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