

### **How To Be a Responsible Pilot**

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**Risk Management** 

**Real-World Scenario** 







That's just plain old common sense!





















Common sense is gained through our experiences.

We sometimes have those experiences because we didn't have any common sense.

























Good judgement can be taught.























Despite all the changes in technology to improve flight safety, one factor remains the same...























...the Human Factor.























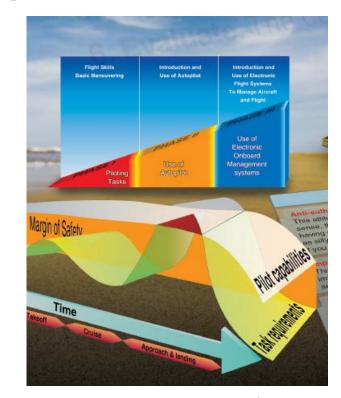




Mental process used by pilots

 Consistently determine the best course of action

 Based on a given set of circumstances

























#### Two Defining Elements

#### Hazard

 Real or perceived condition, event, or circumstance that a pilot encounters

#### Risk

 Assessment of the single or cumulative hazard(s) facing a pilot























- Identifying hazardous attitudes
- Modifying behavior
- Recognizing and coping with stress
- Assessing risk
- Use of all available resources
- Self-evaluation























### **Risk Management**





## **Risk Management**



Proactively identity safetyrelated hazards and mitigate the associated risks





















# **Risk Management**



Risk Likelihood		Risk Severity				
		Catastrophic A	Hazardous B	Major C	Minor D	Negligible E
Frequent	5	5A	5B	5C	5D	5E
Occasional	4	4A	4B	4C	4D	4E
Remote	3	3A	3B	3C	3D	3E
Improbable	2	2A	2B	2C	2D	2E
Extremely Improbable	1	1A	1B	1C	1D	1E

























It's your first commercial UAS contract!

It's a big project that needs to be done ASAP. There is a potential for future contracts based on your work.























You arrive on site (3 hours away).

Weather and location are all within Part 107 requirements.





















During preflight, you notice a nick in your propeller blade.





















You realize you were so excited for your first mission, you left without bringing any spares.

You've flown before with a similar nick, but this one is just a little bit deeper.













































#### Hazards

- Nick in propeller blade
- Pressure to complete mission
- Safety of flight

#### Risks

- Loss of control
- Loss of revenue
- Loss of equipment





















### **Questions?**



