



# FAA UAS SYMPOSIUM

## Drone Delivery – How Close Are We?

#UAS2018



Federal Aviation  
Administration



# Drone Delivery – How Close Are We?



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# The Fundamentals of Air Carrier Transport



## Aircraft

Design and Production Certification



## Operator

Pilot & Operator Certification



## Airspace

Performance/Equipage Requirements

# Aircraft

- **Design and Production Certificate (Part 21)**
  - Tailored to the type of operation and size of aircraft

# Operator

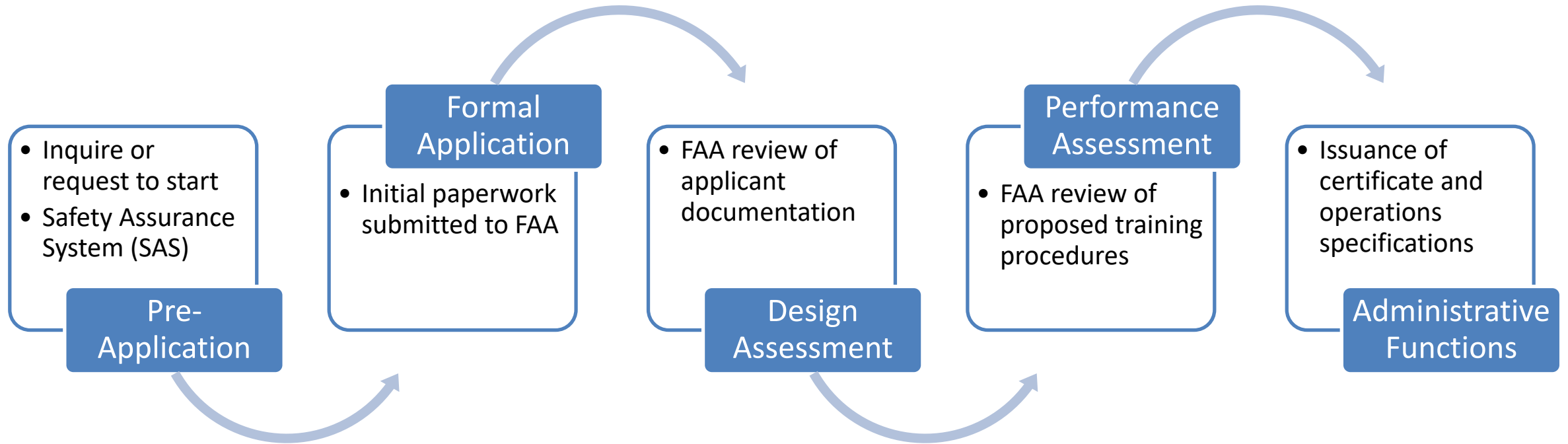
- **Pilot in Command / Crew – onboard or remote**
- **Part 135 Certificate – common carriage**

# Airspace Authorization

- **Performance/Equipage Requirements**
  - E.g. Detect and Avoid, Communications, UTM, etc.



# Part 135 Certification Process



# Aircraft Certification Services



- We ensure equipment meets supports the operation
- Current rules and processes are ready
- Be prepared to integrate into an established system

# What do I need to succeed?



## Consider having experience in:

1. Aviation – certification, production, operations
2. Design assurance concepts – design in reliability
3. Navigation and surveillance
4. Production of aviation products
5. Aviation maintenance concepts

# Be Aware



- Noise – community requirements, public acceptability
- Level of safety
  - Safety needs to match the risk
  - What is the risk of your proposed aircraft and operation:
    - where you operate,
    - how you operate,
    - effect of failure