

416th Flight Test Squadron



416 FLTS

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416 FLTS Overview Brief February 2019

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416 FLTS/CC

U.S. AIR FORCE

Integrity - Service - Excellence

Global Power Fighters (& Trainers)



Overview



- **Overview**
- Mission
- Aircraft
- Flight Test Basics
- Support & Training

- **Mission**
- **Aircraft**
- **Flight Test Basics**
 - **Flight Sciences**
 - **Weapons Integration**
 - **Sensors**
 - **Mission Systems**
- **Support & Training**

Mission

416 FLTS

- Overview
- Mission**
- Aircraft
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CTF (Combined Test Force) Mission is:

Forge Global Power Fighter technologies and capabilities for U.S and Allied Air Forces

Our Vision is:

Recognized world authority for end-to-end Global Power Fighter test

Aircraft & Missions



- Overview
- Mission
- **Aircraft**
- Flight Test Basics
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- **F-16**

- Active Duty
- Guard
- Reserve
- Foreign Military Sales (FMS)
 - EPAF
 - Morocco
 - Iraq
 - Taiwan
 - South Korea
 - Singapore

- **F-15**

- Various models and programs

- **T-38C**

- USAF advanced fighter/trainer

- **T-6A**

- USAF primary trainer

- **Light Attack**

- Experimental light fighter

- **T-X**

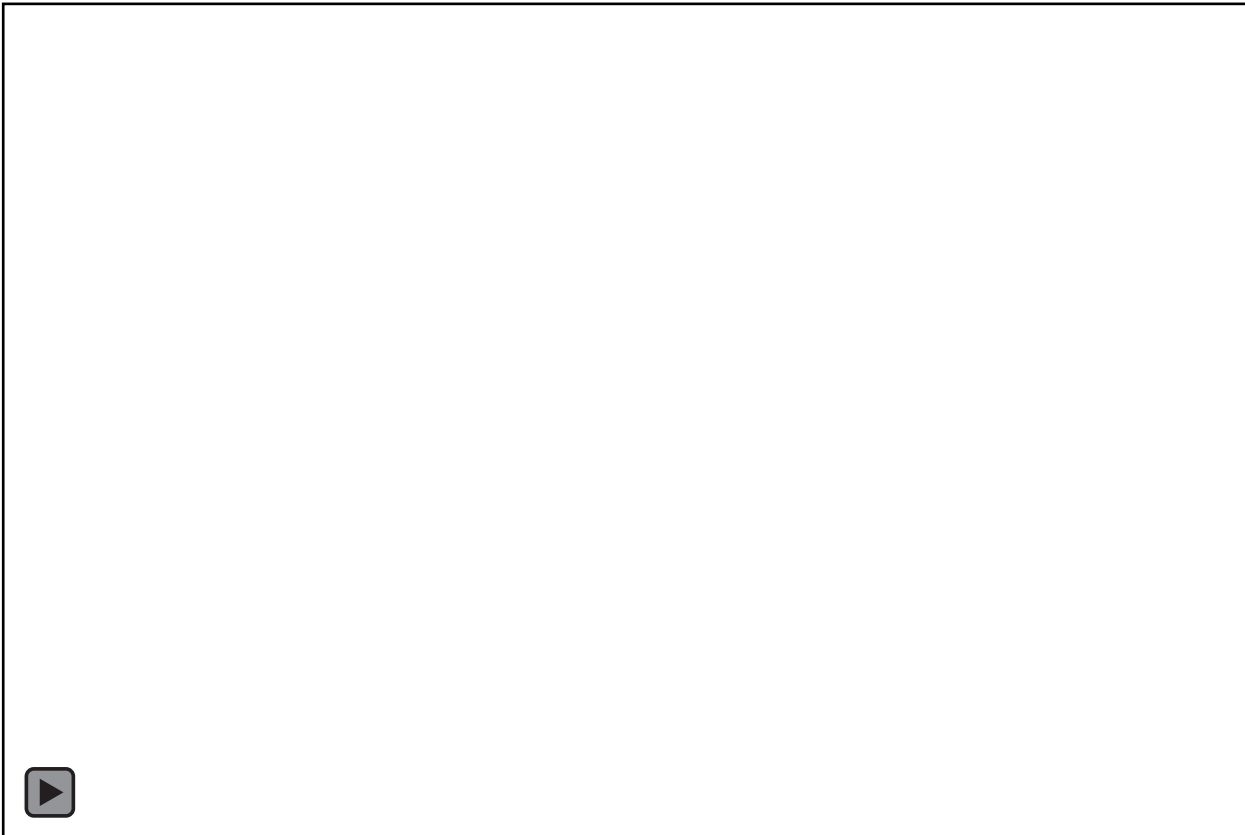
- New advanced fighter/trainer

Flt Test Basics: Flight Sciences



- Overview
- Mission
- Aircraft
- **Flight Test Basics**
- Support & Training

- **AGCAS**
 - Allowing the jet's brains help save lives!
- **Structures**
 - Old airplanes, new parts and manufacturers



Flt Test Basics: Flight Sciences



- Overview
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- **Hi Angle of Attack (fancy name for “out of control”)**
 - New wpns, new software, same flying/recovery qualities?



Flt Test Basics: Weapons Integration



- Overview
- Mission
- Aircraft
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- Support & Training

- **Missiles**
 - Radar regression
 - Helmet mounted sight
- **Bombs**
 - Foreign and Domestic
- **Gun**
 - Automation projects



Flt Test Basics: Sensors

(Advanced Targeting Pods, Radars)



- Overview
- Mission
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- Support & Training

- **New Hardware**
 - AESA radar
- **Significant New Capabilities**
 - Tgt Pod Moving Target Capability
 - 2-way Video Data Link





Flt Test Basics: Mission Systems

- Overview
- Mission
- Aircraft
- **Flight Test Basics**
- Support & Training

- **Integrating new sensors, weapons, displays, human factors for combat effectiveness**



Major Support and Training Projects



- Overview
- Mission
- Aircraft
- Flight Test Basics
- Support & Training

- **F-35**
- **F-22**
- **B-2**
- **Navy**
- **KC-46**





Questions?

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