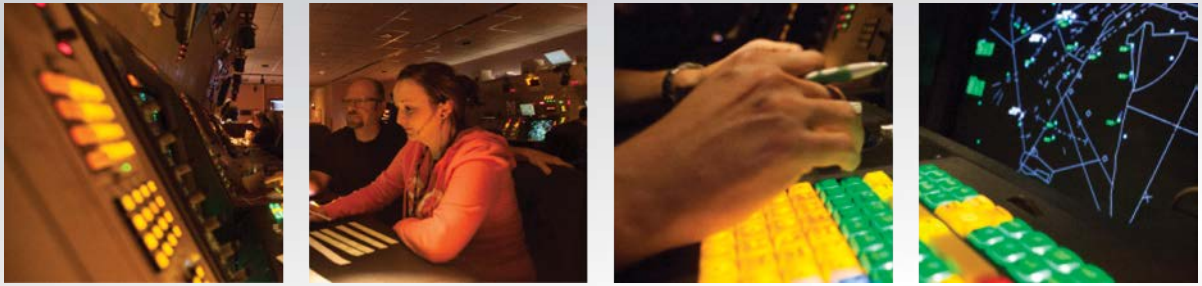
CENTERS OF EXCELLENCE

TECHNICAL TRAINING & HUMAN PERFORMANCE



Delivery of Training to Pilots and Aviation Safety Inspectors in the Flight Standards Environment

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www.faa.gov/go/coe

Regulatory Standards

MISSION

Provide world class education and training to aviation safety professionals

VISION

To become the center of excellence of aviation safety training

FAA Responsibilities

- Promote safe flight of civil aircraft by **prescribing regulations and minimum standards**
- Verify that a certificate holder complies with **the regulations and standards**
  - Before issuing a certificate
  - Before approving or accepting program when required by CFR
- Re-verify that a certificate holder **continues to meet CFR**
- Validate the **performance of a certificate holder's approved and accepted programs** on an ongoing basis

Current Training Methods

- Instructor Led Courses
- PowerPoint
- Practical Application Exercises
  - No assessment/testing associated with course

This Is a Time of Transition

In the past…

- The focus was on compliance
- We reacted after accidents or incidents happened
- Legal enforcement was the hammer

Now…

- A certificate holder's systems are becoming larger and more complex
- Problems arise that can't be found by surveillance alone
- Compliance is only part of the job…now safety rules

Future Training Needs

We need to focus on:

- Systems Thinking, Critical Thinking, and Risk Management
- Setting Risk-based Priorities and Resource Management
- Data and Risk Analytics Competencies
- Aggregation of operational data

The Future

- Scenario-based training
- Use of gaming technology/simulations
- Just-in-time training protocols
- Training for ***regulators*** versus ***inspectors***

Strategic Initiatives

Transformation in Learning

- Practical application versus “death by PowerPoint”
- Virtual classrooms/video teleconferencing
- Immersion training/IT initiatives/web-based
- Real-world scenarios
- Pre/post assessments of learning objectives

Developing a cost-conscious culture

- Looking for innovations
- Optimizing resources
- Recognizing opportunities

Better utilizing ASIs training time

- What are the principle focus/learning objectives for today’s aviation environment?

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