

How Do I Become a new COE TTHP Project Sponsor?



Attend Overview presentation with the Center's *Fund Development & Partnerships Task Force*

- Develop a Statement of Work to define the scope of requested research or services
- Determine amount and type of available funding
 - Typical project funding ranges from \$50K - \$600K (*no contractual limitation to funding amount*)
 - Current funding types: RE&D and OPS
 - Awards can be one-year or multi-year
 - Selected awardees can be either single institution or multi-institution research teams
- Work with Administrative Lead, *Wichita State University* to complete proposal and award process

Training the Emerging Pilot Workforce COE Research Task

Background: The pilot workforce is evolving. The experience level for new captains is decreasing. The generational differences of training for millennials introduces new challenges, especially when the trainers are often retired pilots. In addition, the increased flight deck automation changes what needs to be trained. Pilots of the increasingly complex aircraft need to understand the interactions of the many levels of automation that affect the control of the aircraft. Research is needed to provide data-driven guidance to inspectors and operators on training methodologies to mitigate the potential emerging risk of the upcoming pilot workforce, and address and mitigate risks associated with generational differences.

Purpose of the Research: The purpose of this research is to provide scientific and technical data on effective training and checking methods for the current and projected pilot workforce, with emphasis on pilot information management, decision-making, and command judgment. These data will support updates to guidance for FAA inspectors and operators. This data-driven training guidance based on the findings of the research will be added to 14 CFR Part 121, Subparts N, O&Y, AC 120-54 Advanced Qualification Program, AC 120-71 Standard Operating Procedures, AC 120-51 Crew Resource Management Training, AC 120-35 Line Operational Simulation, and FAA Order 8900.1.

Activity Title: Provide scientific and technical data to support recommendations for training the emerging pilot workforce.		
Activity Period of Performance: 6/1/18 - 9/1/20		
Milestones	Due Date	Predecessor
M1. Review the learning science and best practices on effective training for millennials and future generations and provide recommendations	11/1/18	
M2. Examine emerging issues and trends for the emerging pilot workforce and identify training programs to address these issues	3/1/19	M1
M3. Field test new methods for training the emerging pilot workforce with select Part 121 certificate holders using pretest-to-posttest comparisons	2/1/20	M2
M4. Summarize results and propose new methods for training and checking the new pilot workforce	6/1/20	M3
Deliverables	Due Date	Predecessor
D1. Technical report providing scientific and technical data on new methods of training and checking and recommendations for FAA guidance materials	9/1/20	M4

Technical point of contact: Sheryl Chappell (ANG-C1)

Sponsor: Kathy Abbott (AVS)

Reference materials: 14 CFR Parts 60, 61, 119, 121 (Subparts N, O, & Y), 135, 142, AC 120-54 Advanced Qualification Program, AC 120-71 Standard Operating Procedures, AC 120-51 Crew Resource Management Training, AC 120-35 Line Operational Simulation and FAA Order 8900.1