

# COE TTHP 5<sup>th</sup> Annual Virtual Administrative Meeting

## New Research Projects

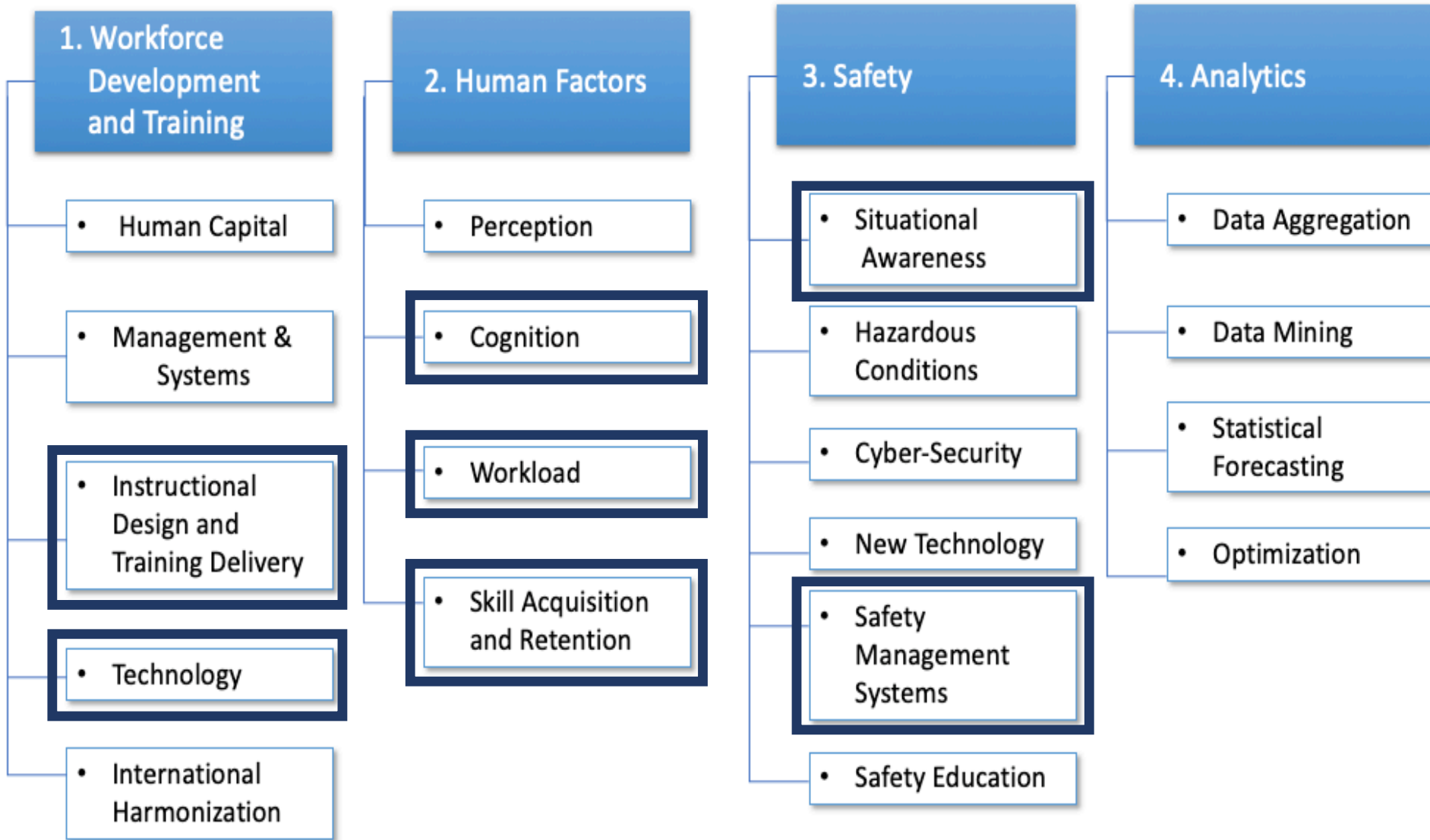
*ATO Safety and Technical Training*

*AJF Flight Program Operations Safety Division*

*ATO Training Technologies Group*



**Center of Excellence for  
Technical Training &  
Human Performance**



# New Research Projects

- **Course to Module Conversion Protocol**  
Dr. Adam Manley, Western Michigan University
- **Flight Operations Safety Assessment**  
Dr. Seth Young, The Ohio State University
- **Evaluation of the RIGIL Flight Training Technology Platform  
Vectoring Basic and Advanced Mobile Application**  
Dr. Scott Tarry, University of Nebraska, Omaha

# Flight Operations Safety Assessment

**Project Goal:** To gain an objective understanding of AJF crew safety related issues and concerns

## Research team: The Ohio State University

Seth Young, Principal Investigator  
Maya Perlmutter, Undergraduate Researcher  
Shawn Pruchnicki, Faculty Adviser

## FAA Tech Monitors

Sheri Baxter, AJF Senior Technical Advisor  
Mike Casey, Director, FAA AJF Safety

## PASS Representative

Jeff Haring

### Air Traffic Organization

Leadership

Service Units

Air Traffic Services

Flight Program Operations →

Management Services

Mission Support

Program Management Organization

Safety & Technical Training

System Operations Services

Technical Operations

FAA Home › Offices › Air Traffic Organization › Service Units › Flight Program Operations

## Flight Program Operations

The Air Traffic Organization established Flight Program Operations to consolidate six separate flight program operations into a single operations organization. This organization is responsible for all aspects of aircraft operations, aircraft maintenance, flight safety program, and flight program administration. Flight Program Operations holds operational control of all flight program operations, as well as responsibility for scheduling missions and implementing standardized flight control procedures (flight release and flight following) for all flights conducted in FAA aircraft.

### What We Do

Flight Program Operations is responsible for FAA Flight Program safety, policy/standards, operations, training, maintenance, administrative services, financial and business management, acquisition, reporting, regulatory compliance, and other internal/external requirements. Flight Program Operations conducts multiple missions in FAA aircraft to include aviation safety training; flight inspection; research, development, test and evaluation support; and critical event response/transportation.

### Address

FAA National Headquarters  
800 Independence Ave., SW  
Orville Wright Bldg. (FOB10A)  
Suite 1028  
Washington, DC 20591  
Phone: (202) 267-0523



# Flight Operations Safety Assessment


**Project Goal:** To gain an objective understanding of AJF crew safety related issues and concerns

**Motivation:** AJF (FAA Flight program operations) has recently seen **an uptick in safety related issues**, including flight and maintenance related incidents and accidents.

Thought is that there are some systemic issues with respect to organization culture, training methods, and operational practices that are resulting in these safety issues. Desire is to have an objective third-party conduct a survey among crew to glean out specific areas of concern and identify opportunities to improve conditions that lead to improved operational safety.



# Flight Operations Safety Assessment

  
THE OHIO STATE UNIVERSITY

Thank you for your interest in participating in this research.

**This is a consent form for research participation.** It contains important information about this study and what to expect if you decide to participate.


The purpose of this study is to examine ways that we can improve safety in our organization. As part of this study, you will be asked to complete a series of prompts/surveys related to your opinion on current practices and values within the organization. **The study should take about 30 minutes of your time.**

Also, we want to remind you that **participation in this session is voluntary and anonymous. You may withdraw from the study at any time.** You also have the right to refuse to answer any questions you are uncomfortable answering. If you refuse to participate or decide to stop participating in the study, there will be no penalty to you, and you will not lose any benefits to which you are otherwise entitled. Your decision will not affect your future relationship with the FAA. **Again, your responses will be aggregated, and it will be completely confidential.**

Your participation in this study may include temporary feelings of slight emotional discomfort due to the recalling difficulties as a crewmember. **The results from this study will be put into action items to help the organization.**

For questions, concerns, or complaints about the study, or you feel you have been harmed as a result of study participation, you may contact [insert name] at [email]

12:29


  
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## Phase I - Crew Survey

N = 135 FAA & Contract Flight Crew

Analysis of perceptions of:

- Culture
- Training Practices
- Application of SOPs
- Use of CRM
- And other factors contributing to operational safety



# Flight Operations Safety Assessment

## Phase I: Project Timeline

Milestones	Dates	Status
M1. Project Kickoff	October, 2020	SOW paperwork submitted
M2. Approval of Survey Instrument	November, 2020	Survey in IRB approval process
M3. Administration of Survey	November, 2020	
M4. Analysis of data	December, 2020	
M5. Technical Report of Study Findings	January, 2021	



# Flight Operations Safety Assessment

## Projected Phase II / III Activities

Phase II: Deeper dive based on survey findings

- Focus Groups
- Case Studies
- Development of safety action plan outline

Phase III: Development, implementation and assessment of safety action plan

SOW's in development. Seeking industry partners.

Estimated Phase II start – Q2 2021

Estimated Phase III start – Q2 2023

Estimated project completion: Q3 – 2025

