TASK # CA010-011. MODULAR CURRICULUM DEVELOPMENT
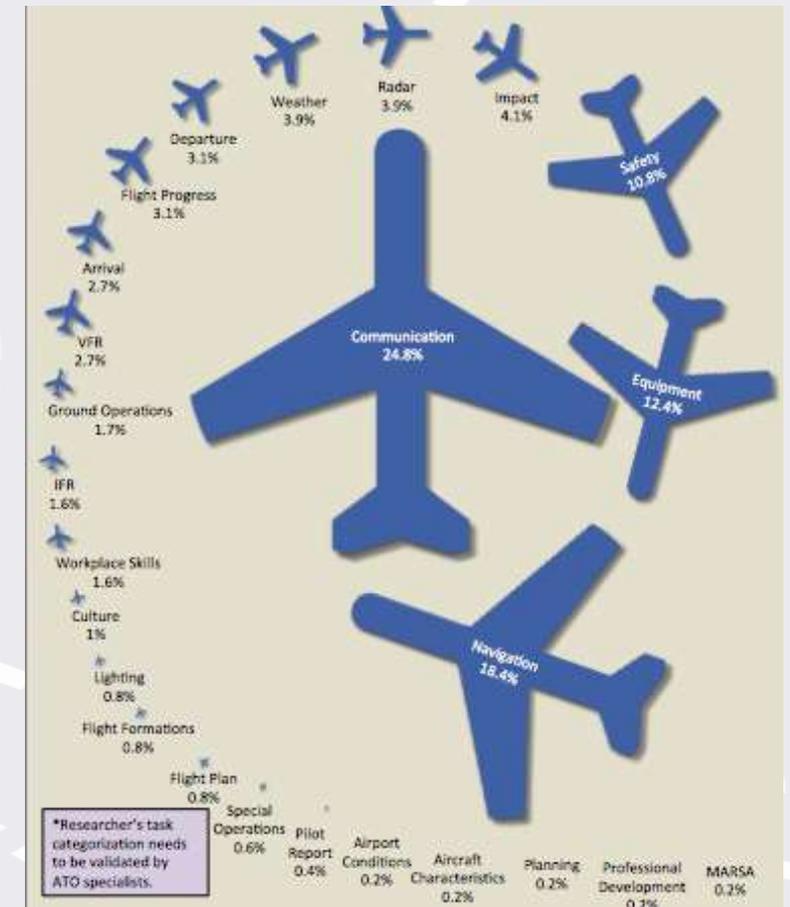
PROJECT AT-A-GLANCE

- UNIVERSITIES: Embry-Riddle Aeronautical University/Western Michigan University

- PRINCIPAL INVESTIGATORS: Dr. Raymond Thompson (WMU), Dr. Daryl Watkins (ERAU)

- STUDENT: Sarah Catherine Lewis (WMU)

- INDUSTRY PARTNER: ADDX

RELEVANCE TO TECHNICAL TRAINING AND HUMAN PERFORMANCE

- Create a concept for curriculum architecture design to show feasibility of deploying modular, reusable curriculum in a variety of learning modalities.

STATEMENT OF WORK

- Task 1: Conduct Literature Review. 1.1.1. Activity: Investigators will collect, review, and synthesize literature from the body of knowledge related to this project.
- Task 2: Collect FAA-ATO Artifacts. 1.2.1. Activity: The investigators will collect key artifacts related to the project. The following represents a subset of necessary documents.
- Task 3: Map Current Process. 1.3.1. Activity: The investigators will map a portion or all of the FAA ATO office system that encompasses the processes starting from job-task analysis and assignment through training and delivery.
- Task 4: Validate Understanding. 1.4.1. Activity: The investigators will meet with FAA staff to validate the process maps from task 3.
- Task 5: Map New Process. 1.5.1. Activity: The investigators will map a future state for the processes that were previously mapped.
- Task 6: Develop concept for enhanced curriculum architecture. 1.6.1. Activity: Investigators will develop a new concept for an enhanced curriculum architecture that would facilitate modular curriculum design
- Task 7: Develop list of recommendations. 1.7.1. Activity: Investigators will develop a list of recommendations for implementation of best practices, changes to existing practices, issues that were noticed throughout the project, and recommendations for future phases or actions to continue the efforts begun in this project.

STATUS
- Project is running on time.
- Literature review is near completion.
- Analysis of FAA ATO Academy and Shared Academy is completed. Tasks have been categorized by topic and taxonomy.

FUTURE WORK
- All remaining tasks need to be completed.
- Validation of task categorization by ATO expert is pending.

EMBRY-RIDDLE Aeronautical University.
FLORIDA | ARIZONA | WORLDWIDE

WESTERN MICHIGAN UNIVERSITY

Publications, Presentations & Awards

- Publications:

- Presentations:

- Awards:

COE SOAR
Solutions for Operational Aviation Research