

# **MANAGING TRAINING CONTENT INCLUDING ADAPTIVE LEARNING CAPABILITIES USING 21ST CENTURY TECHNOLOGY**

**PROJECT #CMD007 FUNDED BY AFB-540**

COE TTHP



**SOAR**  
Solutions for Operational Aviation Research

**EMBRY-RIDDLE**  
Aeronautical University  
DAYTONA BEACH, FLORIDA

**INTERAMERICAN**  
UNIVERSITY OF PUERTO RICO  
SCHOOL OF AERONAUTICS

 **C<sup>2</sup> Technologies**

## **WHAT:**

Current training methods for FAA Aviation Safety Inspectors (ASI) do not utilize 21st century training technologies.

## **GOALS:**

To use Learning Management Systems (LMS) & Learning Content Management Systems (LCMS) technology to allow for customization and adaptive learning for FAA Aviation Safety Inspectors.

## **HOW:**

1. Create an analysis of the 21st century best practices of managing adaptive training content.
2. Compare LMS/LCMS software from different companies to determine one that would best be compatible with the needs of the FAA.
3. Analyze current AFS-500 training requirements and procedures and developing a framework that will best support these needs.
4. Develop a prototype lesson representative of an ASI training topic that will demonstrate the use of modular and mobile adaptive learning with the ability for rapid updating.
5. Produce a final report.

## **WHY:**

Adopting a 21st century training approach will improve the effectiveness and quality of ASI training.

## **IMPACT:**

Utilizing 21st century technology will maximize training capabilities while reducing training costs and allow ASI training to quickly adapt to changing learning environments.

**MICHAEL WIGGINS, Ed.D.,**  
**EMBRY-RIDDLE AERONAUTICAL UNIVERSITY**  
**CAROLINE OCASIO,**  
**INTER AMERICAN UNIVERSITY OF PUERTO RICO**  
**ROBERT THOMAS, Ph.D.,**  
**EMBRY-RIDDLE AERONAUTICAL UNIVERSITY**  
**VICTORIA THORPE,**  
**INTER AMERICAN UNIVERSITY OF PUERTO RICO**  
**WENDY DARNELL, C<sup>2</sup> TECHNOLOGIES, INC.**  
**GIFLENE TOUSSAINT, C<sup>2</sup> TECHNOLOGIES, INC.**