

TASK # SPTT003-04. ANALYSIS OF A TECHNICAL TRAINING COURSE FOR SPECIFIC PART-TASK TRAINING IMPLEMENTATION AND ENCHANCEMENT BASED ON THE ADDITION OF NEW TECH

PROJECT AT-A-GLANCE

- UNIVERSITIES: Tennessee State University, University of Oklahoma
- PRINCIPAL INVESTIGATORS: Dr. Keith Hargrove (TSU), Dr. Todd Hubbard (OU), Dr. Ivan Mosely (TSU)
- INDUSTRY PARTNERS: Computer System Designers, Leidos

RELEVANCE TO TECHNICAL TRAINING AND HUMAN PERFORMANCE

- Part Task Analysis is the first step toward redefining instructor and learner roles for future simulation
- Part Task simulation for NextGen training will involve mobile devices and both augmented and virtual reality

STATEMENT OF WORK

- Review NextGen plans for future training
- Produce a list of possible or probable part-task training strategies
- Examine current course methodologies for part-task use, which lead toward full simulation
- Develop NextGen protocols for part-task development
- Create an example course, using NextGen training protocols and ISD best practices
- Test the example course, using ISD principles



STATUS

- Analysis of sample of Tech Ops courses complete
- Awaiting FAA documents for further analysis
- Discovery of augmented and virtual reality techniques underway

FUTURE WORK

- Analyze FAA courses
- Develop a list of common part tasks
- Establish protocols for instructional technology
- Create an augmented reality scenario
- Provide recommendation report to FAA
- Complete final project closeout