

# AJI-2 COE TTHP Project 17: Analysis of Technical Operations Job Tasks



Ellen J. Bass, Drexel University



Steven J. Landry, Purdue University



Benjamin Bell, Eduworks

# 17. Analysis of Technical Operations Job Tasks

Sponsor: Greta Ballentine

Technical POC : John Stillings

Description: Examine current job tasks for Tech Ops personnel and produce models for integration of this job task analysis into existing courses that have outdated or no job task alignment.

Outcomes: Research current job tasks for Technical Operations personnel and develop proposed model for integration of this job task analysis into existing courses that have outdated or no task alignment.

# Statement of Work

## Task 1: Task identification and analysis

- Review reference materials
- Coordinate with FAA regarding job tasks of interest
- Leverage comprehensive task analysis being developed by Dr. Broach, FAA (expected Jan. 1, 2017).
- For these job tasks, conduct an analysis to identify state of training and training documentation for tasks
  - Analysis will ensure required information for Task 2 is available.
- Identify gaps

# Statement of Work (continued)

## Task 2. Training content modeling

- Use task analyses with models of controlled systems to build a formal system model
- Develop safety specifications based on knowledge human operators should possess
- Analyze the formal system model using model checking to identify the critical knowledge that the operator should possess

# Statement of Work (continued)

## Task 3. Final report

- Synthesize findings from Tasks 1 and 2 .
- Make recommendations for integration of current job task analysis into existing courses that have outdated or no task alignment.
- Highlight processes used so they are repeatable for other projects.

# Milestones

Period of performance: 09/28/2016-12/27/2017

Majority of work will take place after Jan. 2017

Milestone	Planned Due Date
Report submitted on task identification and analysis, including current state of training documentation and needs	4 months after project start
Training content modeling report	11 months after project start
Final report with recommendations	12 months after project start

# Budget

<b>University</b>	<b>Sponsor Cost</b>	<b>University Match</b>
Drexel University	\$70,000	\$56,520
*Eduworks		\$13,480
Purdue University	\$ 30,000	\$ 30,000
<b>Grand Total</b>	<b>\$100,000</b>	<b>\$100,000</b>

\*Eduworks will support execution of this effort with a principal investigator-level consultant to the project, representing an in-kind contribution of \$13,480.