NASA TRAINERS CONTINUING EDUCATION AND INFORMATION-SHARING RETREAT

ALVIN BOUTTE

NASA WORKMANSHIP STANDARDS PROGRAM

DELEGATED PROGRAM MANAGER

AGENDA

- History
- Purpose
- Summit Agenda
- Highlights
- Take-Aways
- Future Work

HISTORY

- The last Level A Trainer Summit sponsored by the NASA Workmanship Standards Program took place September 2014
 - Two-day event
 - Covered the workmanship standards
 - Had training centers present
- Plans for another event had been delayed since 2016 due to scheduling issues
- Closing of multiple training centers across the agency during the Covid-19 pandemic provided an
 opportunity to bring trainers together for the most recent event
- Previous events did not have as much SMA-Sponsored Level B involvement

PURPOSE

- Present information on technical and policy changes to workmanship standards to NASA instructors
- Provide continuing education opportunities to NASA instructors
- Provide an avenue for knowledge sharing amongst NASA workmanship training centers
 - 5.6.3 Minimum certification requirements for NASA Level A instructors shall be as follows:
 - a. Review and comment on, or concur with, all updates to NASA-STD-8739.1, NASA-STD-8739.4, NASA-STD-8739.5, and NASA-STD-8739.6.
 - b. Compliance with the vision requirements of paragraph 5.7.
 - c. Participate in and successfully complete biennial continuing education and NASA Level A training center information-sharing programs developed and provided by the NASA Workmanship Standards Program.

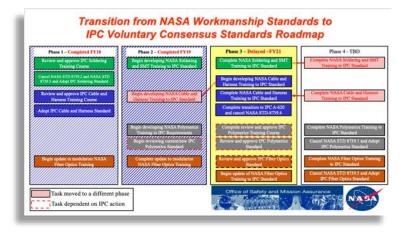
SUMMIT/RETREAT AGENDA

- Day I
 - Workmanship Program Overview and Discussion
 - State of the Training Center Presentations
 - Guest Speak on Training Program Development for the 21st Century
 - Open Discussion
- Day 2
 - Trainer Recorded Demonstrations and Discussion
 - Virtual Tour of JPL Training Facilities
 - Presentation on Unconscious Bias
 - Grading Rubric Development Discussion

- Day 3
 - Day I & 2 Recap
 - Unfinished Business Discussions
 - Breakout Sessions

HIGHLIGHTS

- Day I
 - Workmanship Program Overview and Discussion
 - State of the Training Center Presentations
 - Guest Speak on Training Program Development for the 21st Century – Jen Swatton-Chingwe





- 18+ years of comprehensive talent development experience, learning experience design, learning solution design, and instructional design of blended/online/mobile learning in corporate, government, higher education, and manufacturing settings.
- Expert in e-learning project management and Six Sigma/Lean methodologies.
- LMS selection, administration, and learning experience design for corporate universities.
- Mentor and coach team members in instructional design best practices and elearning development tool selection and use.
- Virtual corporate and higher education teaching experience using Canvas, Moodle, Blackboard, and Desire2Learn; extensive platform training experience.



HIGHLIGHTS

- Day 2
 - Trainer Recorded Demonstrations and Discussion
 - Virtual Tour of JPL Training Facilities
 - Grading Rubric Development Discussions

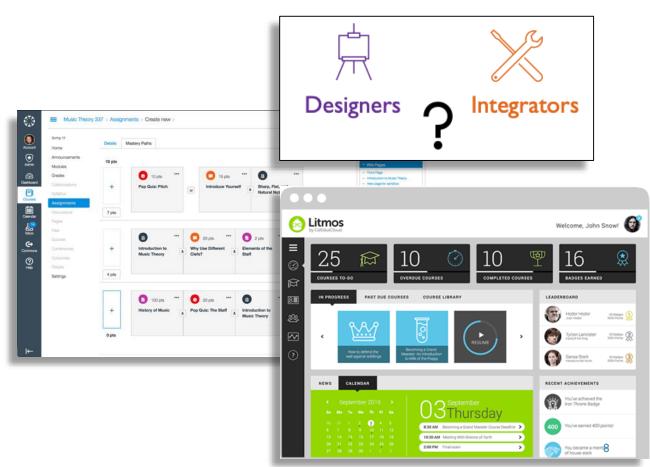




HIGHLIGHTS

- Day 3
 - Recap and Close Out
 - Breakout Sessions





TAKE-AWAYS

- There is broad support at training centers to continue our transition to IPC standards
- There are areas of improvement that most centers agree on, specifically:
 - Rethinking how we certify and re-certify instructors
 - Desire for a Learning Management System for workmanship standards training
 - Investigation of workmanship roles beyond operator and inspector is needed
 - Use of technology in the delivery of workmanship training
- Instructors at all NASA training centers found this retreat to be helpful
- There is interest in doing this on an annual or biennial basis

SUMMARY

- This 3-day virtual event brought together for the first time in many years nearly all NASA Level A and SMA-Sponsored Level B instructors for in-depth discussions on the direction of the Workmanship Standards Program and plans to update the Workmanship Training materials and resources. Workmanship trainers representing 4 different NASA centers and JPL were in attendance and participated in the week's events.
- Highlights of the event included information sharing sessions between both the training centers and the Workmanship Program, professional and personal development presentations, review of workmanship video demonstrations recorded by instructors, a virtual tour of the JPL training facility, and finally deep dive discussions on how to update the training materials and resources to better support the transition from NASA standards to adopted Industry Voluntary Consensus Standards.

FUTURE WORK

- Holding these collaboration events on a more consistent and frequent basis
- Updates to training materials used at our NASA workmanship training centers
- Lean Six Sigma project(s) to investigate and improve processes and requirements for training



QUESTIONS

