



# Update to NIST SP 800-50/800-16 Marian Merritt, NIST and Don Walden, IRS

## Outline

- Introductions/Co-Authors
- Overview of the project
  - History of the publications
  - Why update now?
- Key Objectives
- Work to Date
- Take-aways from pre-draft comments
- Next steps
- Q&A



## Introductions/Co-Authors

#### **Co-Author Team**

- Marian Merritt, NIST
- Don Walden, IRS
- Brenda Ellis, NASA
- Susan Hansche, CISA/DHS
- Kevin Sanchez-Cherry, DOT
- Julie Snyder, MITRE
- Jessica Dickson, NIST (on leave)

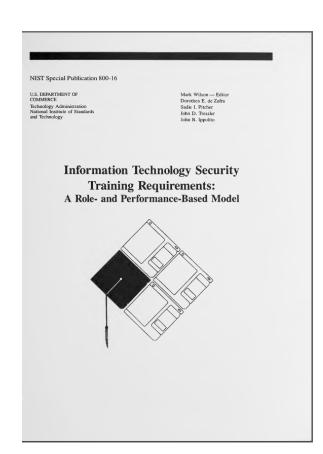


#### **Overview: History of the publications:**



- 800-50: "Building an Information Technology Security Awareness and Training Program"
  - October 2003
  - Foundational document to guide creation of an organization's cybersecurity A/T program

## **Overview: History of the publications (cont):**



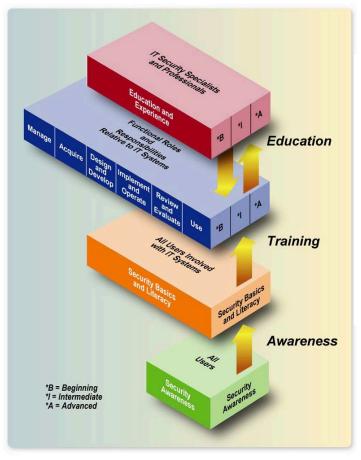
- 800-16 "Information Technology Security Training Requirements: A Role and Performance-Based Model"
- April 1998
- Revised:
  - V1 3<sup>rd</sup> draft 2014
  - Prelim draft R2 2020 (not published)

### **Overview: Why Update Now?**

- Opportunity to sync NIST guidance with latest updates and recommendations from outside guidance informing this work
  - OMB A-130
  - National Defense Authorization Act (NDAA) for FY2021
  - Cybersecurity Enhancement Act of 2014
- Opportunity to address gaps and open questions within existing guidance



#### **Pre-Draft Call for Comments - Learning continuum**



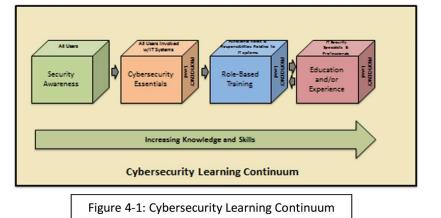


Figure 2-1: The IT Security Learning Continuum

NATIONAL INITIATIVE FOR CYBERSECURITY EDUCATION

# Other Comments in the Pre-Draft Call for Comments

- Leveraging other NIST reference material
- Consistent language
- Risk reduction drives training programs
- Challenge of measuring impact of programs
- Role of the training program in setting a cybersecurity culture



## **Key Objectives**

- Update to security awareness and training program lifecycle
- Incorporating privacy awareness and training programs in parallel with security
- Consolidation of 800-50 and 800-16
- Incorporate NICE Workforce Framework KSTs



## Themes

- Developing a security and privacy culture in the organization
- Allowing for an iterative approach (to accommodate cybersecurity, privacy, organizational specific events)
- Flexibility, scalability
  - From large agency to smaller organizations
- Standardized terms as found in other NIST documents
- Reflect current work environment and requirements (i.e. remote workforce)



### **Additional themes**

- Incorporate privacy with cybersecurity awareness and training efforts, reflecting organizational reality
- Metrics what is useful, what can be measured
- Recommended feedback mechanisms
- Post-implementation assessment steps



## **Discussion Points from Co-Authors**

#### Concepts from the Team

- Awareness and Training Program > Learning Program
  - NICE Framework, "Learner"; organizations have Chief Learning Officer
- Defining Role Based Training simply
- Moving examples of assets to online appendix (i.e. policy examples, posters)



#### Work to Date

- Co-authoring team formed (some new people):
  NIST (NICE and Privacy Engineering), DHS, IRS, DOT, NASA
- Pre-draft Call for Comments
  - Issued Sept. 21, 2021
  - Closed Nov. 5, 2021
  - Adjudication completed Jan. 2022
- Anticipated Draft Fall 2022
- Public review through January 2023
- Final February 2023







Thank you!