

# Effective Role-Based Distance Learning

**Gretchen A. Morris, CISSP**

RSIS / NASA IT Security Awareness and Training Center

# Overview

- NASA's IT Security Awareness and Training Program
- Role-based training
- User activities/interactions designed into the training that allow the transfer of knowledge, skills, and abilities
- Top three things we would recommend to federal agencies looking to use distance learning for role-based training
- Top three things federal agencies should avoid when looking to use distance learning for role-based training

# NASA's IT Security Awareness and Training Program

- Distance Learning (core library)
  - Awareness
  - Role-based
  - Topic-based
  - Technical courses
- Onsite technical courses (new issues)
- Professional Certifications

# Role-based Training

- Created online courses to fulfill this requirement (distance learning)
- Follows Chapter 4 in NIST SP 800-16
- Teaches NIST and NASA guidance
- Covers NASA-specified “Significant Security Responsibility” roles

# Training Activities / Interactions

- At the heart of the basic level of training, we have incorporated what are called “exercises for application”
  - written to teach learners how to locate the information they will need to do their job and be in compliance with...
    - the laws,
    - security programs at their Agency,
    - the security concerns during the system development life cycle.

# Top 3 Recommendations!

- Use other Agency materials, share what your Agency does
- Use the FISSEA listserv to ask questions or for help
- Become an expert of the NIST SPs (especially the 800-16)

# Top 3 Things to Avoid

- Someone saying their courses follow the NIST SP 800-16 when they really don't
- A group of topic-based courses sold in a package as role-based training
- Someone trying to tell you certification = role-based training

# Questions?

[gretchen.a.morris@nasa.gov](mailto:gretchen.a.morris@nasa.gov)

(216) 433-2276