# Using Cyber Frameworks //// to Define and Grow a Workforce

Experiences from across the U.S.

Department of Defense







The overall classification of this briefing is:

**UNCLASSIFIED** 

# **Panelists**

#### Office of the Department of Defense (DoD) Chief Information Officer (CIO)

Bonnie Hammersley, Deputy CIO for Resources & Analysis, Office of the DoD CIO

#### **U.S. Cyber Command**

• Jamie Chapp, Division Chief, J72, US Cyber Command

#### **DoD Personnel & Readiness**

• Fred Engle, Director, Military Training and Ranges in the Office of the Assistant Secretary of Defense for Readiness, Office of the Secretary of Defense







# **Cyber Workforce Frameworks**

- Three cyber workforce frameworks are used to standardize cyber work and support talent management activities across the Federal government, DoD, and the private sector
- The Frameworks originated from the same initial research and are organized in a similar manner
- Differences exist primarily in the respective workforces they each apply to, as well as a few unique work roles and associated content

## NICE

Used within the Federal government and private sector

#### **DCWF**

Sets the baseline standard for DoD

## JCT&CS

Applies to the Warfighting force







# Frameworks are Tool Supporting All Phases of the Human Capital Lifecycle and its Associated Practices











# **DoD CIO: Securing and Supporting the DoD Cyber Workforce**

- Cyber Excepted Service is an overhaul to the government's personnel system and supports the human capital life cycle for civilian employees engaged in cyber-related missions
- Phase III of CES implementation will leverage DCWF coding information to identify conversion opportunities
- CES promotes a major culture shift, hiring and advancing a workforce based on mission requirements and employee capabilities



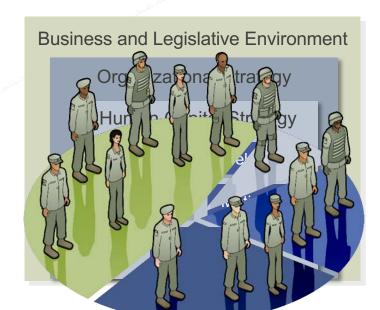






# **USCYBERCOM:** Building the Cyber Force

- In 2009, USCYBERCOM was stood up by Congress and the President—this involved building a cyber fighting force from scratch
- A cyber workforce framework was used to define the skill requirements of the force, assemble a training pipeline from existing courses across the government, and train and certify thousands
- Today, the cyber force is fully operational









#### **Lessons Learned – How do we use the frameworks?**

An example of the process for using the Frameworks to identify training needs:

- 1. Define the problem or purpose why does this job/team exist?
- 2. Determine nature of the cyber work performed what do they actually do?
- 3. Map the work to the appropriate framework and work roles –where does a job/set of jobs align to the frameworks?
- 4. Dive deep into the work roles What tasks are performed, what KSAs needed?
- 5. How are people selected What are selection criteria; what can and can't they do at entry?
- 6. Identify training gaps and solutions What specific training is needed to close the gap?

The end result ties directly back to the frameworks: The training requirements tie directly to the standards for the work and the worker







# **Benefits – Why the Frameworks Matter**

Using a common way to organize, describe, and analyze cyber work and personnel, these Frameworks enable:

- Informed decision making for leaders to...
  - Identify cyber personnel for strategic workforce planning
  - Provide a basis for determining performance criteria
  - Identify critical gaps in staffing / capability
  - Streamline training paths
- "Interoperability" on a grand scale
  - Facilitates communication and coordination using a standard lexicon
  - Trains people to a common standard across sectors and nations, enhancing global security
  - Facilitates recruitment and employment of cyber personnel who meet standards recognized across agencies, organizations, nations









### **Additional Resources**

- Cyber Seek (Career Paths): <u>https://www.cyberseek.org/index.html</u>
- 'Push Button' Position Description tool': https://niccs.us-cert.gov/workforce-development/cybersecurity-resources/dhs-pushbuttonpd-tool
- Cyber One Stop (CES): <u>https://www.cpms.osd.mil/Subpage/CyberOneStop/CyberHome</u>





