CAREER PATHWAY CYBER WORKFORCE DEVELOPER AND MANAGER (751)

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1 751-CYBER WORKFORCE DEVELOPER AND MANAGER

1.1 Work Role Overview

The table below provides an overview of various role-specific elements related to 641-Systems Requirements Planner.

Table 1. 751-Cyber Workforce Developer and Manager Work Role Overview

NICE Role Description	Develops cyberspace workforce plans, strategies, and guidance to support cyberspace workforce manpower, personnel, training and education requirements and to address changes to cyberspace policy, doctrine, materiel, force structure, and education and training requirements.		
Personnel performing the 751-Cyber Workforce Developer and Manager work commonly aligned to the following Occupational Series (Top 5 Shown): - 2210-Information Technology – 65% - 0343-Management and Program Analysis – 10% - 0301-Miscellaneous Administration and Program – 6% - 0201-Human Resources Management – 4% - 0855-Electronics Engineering – 3%			
Work Role Pairings	Personnel performing the 751-Cyber Workforce Develop and Manager work role are most commonly paired with the following complimentary Work Roles (Top 5 shown): - 752-Cyber Policy and Strategy Planner – 30% - 801-Program Manager – 14% - 431-Knowledge Manager – 8% - 722-Information Systems Security Manager – 7% - 802-IT Project Manager – 6%		
Personnel performing the 751-Cyber Workforce Developer and Manager work unofficially or alternatively be called: - Cyber Workforce Development and Planning Specialist - Chief Human Capital Officer - Human Capital Specialist - Manpower Analyst - Workforce Development Project/Program Manager - Workforce Development Specialist - Workforce Planner - Workforce Planning Analyst - Workforce Research Analyst			
Distribution of GS- Levels	Personnel performing the 751-Cyber Workforce Developer and Manager work role are most commonly found within the following grades on the General Schedule. - GS-7 – redacted**		

	- ☐ GS-9 – redacted**
	- ☐ GS-10 – redacted*
	- ⊠ GS-11 – 5%
	- ⊠ GS-12 – 13%
	- ⊠ GS-13 – 29%
	- ⊠ GS-14 – 23%
	- ⊠ GS-15 – 8%
	*19% of all personnel performing the 751-Cyber Workforce Developer and Manager work
	role are in non-GS pay plans and are excluded from this section
	** percentages less than 3% have been redacted
	The following work roles are examples of possible roles an individual may perform prior to
	transitioning into the 751-Cyber Workforce Developer and Manager work role:
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	- 211-Forensics Analyst
	- 212-Cyber Defense Forensics Analyst
	- 221-Cyber Crime Investigator
	- 411-Technical Support Specialist
	- 421-Database Administrator
	- 422-Data Analyst
	- 431-Knowledge Manager
	- 441-Network Operations Specialist
	- 451-System Administrator
	- 461-Systems Security Analyst
	- 511-Cyber Defense Analyst
	- 521-Cyber Defense Infrastructure Support Specialist
	- 531-Cyver Defense Incident Responder
On Ramps	- 541-Vulnerability Assessment Analyst
	- 612-Security Control Assessor
	- 621-Software Developer
	- 631-Information Systems Security Developer
	- 632-Systems Developer
	- 641-Systems Requirements Planner
	- 661-Research and Development Specialist
	- 671-System Testing and Evaluation Specialist
	- 711-Cyber Instructional Curriculum Developer
	740.01
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	- 722-Information Systems Security Manager (ISSM)
	- 732-Privacy Officer/Privacy Compliance Manager
	- 752-Cyber Policy and Strategy Planner
	- 801-Program Manager
	- 802-IT Project Manager
	- 803-Product Support Manager
Off Dames	The following work roles are examples of common transitions an individual may pursue after
Off Ramps	having performed the 751-Cyber Workforce Developer and Manager work role. This is not

an exhaustive list, nor does it consider learning and development opportunities an individual may pursue to prepare themselves for performing alternate work roles:

- 711-Cyber Instructional Curriculum Developer
- 712-Cyber Instructor
- 752-Cyber Policy and Strategy Planner
- 802-IT Project Manager

1.2 Core Tasks

The table below provides a list of tasks that represent the Core, or baseline, expectations for performance in the 751-Cyber Workforce Developer and Manager work role, as well as additional tasks that those in this role may be expected to perform.

Table 2. 751-Cyber Workforce Developer and Manager Core Tasks

T0341 Advocate for adequate funding for cyber training resources, to include both internal and industry-provided courses, instructors, and related materials. Coordinate with internal and external subject matter experts to ensure existing qualification standards reflect organizational functional requirements and meet industry standards. T0362 Develop and implement standardized position descriptions based on established cyber work roles. T0363 Develop and review recruiting, hiring, and retention procedures in accordance with current HR policies. Coordinate that cyber career fields are managed in accordance with organizational HR policies and directives. Ensure that cyber workforce management policies and processes comply with legal and organizational requirements regarding equal opportunity, diversity, and fair hiring/employment practices. Establish and collect metrics to monitor and validate cyber workforce readiness including analysis of cyber workforce data to assess the status of positions identified, filled, and filled with qualified personnel. Coordinate with in and between cyber career fields. Establish cyber career paths to allow career progression, deliberate development, and growth within and between cyber career fields. Establish manpower, personnel, and qualification data element standards to support cyber workforce management and reporting requirements. Coordinate with organizational requirements. Coordinate with internal and external subject matter experts to ensure existing qualification standards. Coordinate with internal and external subject matter experts to ensure existing qualification for pallification standards. Coordinate with internal and external subject matter experts to ensure existing qualification for pallification standards. Coordinate with internal and external subject matter experts to ensure existing and meet industry standards. Coordinate with organizational policies related to or influencing the cyber workforce. Coordinate with organizational policies related to	re or
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resources, and key security personnel, to support information technology (IT) security	
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T0226 Serve on agency and interagency policy boards. Additiona T0352 Conduct learning needs assessments and identify requirements. Additiona T0356 Coordinate with organizational manpower stakeholders to ensure appropriate allocation and distribution of human capital assets. Additiona T0364 Develop cyber career field classification structure to include establishing career field entry requirements and other nomenclature such as codes and identifiers. Additiona T0365 Develop or assist in the development of training policies and protocols for cyber training. Additiona T0373 Establish and oversee waiver processes for cyber career field entry and training qualification requirements. Promote awareness of cyber policy and strategy as appropriate among management and ensure sound principles are reflected in the organization's mission, vision, and goals. T0408 Interpret and apply applicable laws, statutes, and regulatory documents and integrate into policy. Analyze organizational cyber policy. Additiona T0425 Analyze organizational cyber policy. Additiona T0437 Correlate training and learning to business or mission requirements. Additiona T0441 Define and integrate current and future mission environments. Draft, staff, and publish cyber policy. Monitor the rigorous application of cyber policies, principles, and practices in the delivery of planning and management services. Additiona T0506 Seek consensus on proposed policy changes from stakeholders. Additiona	T0116	Identify organizational policy stakeholders.	Additional
T0352 Conduct learning needs assessments and identify requirements. Additiona T0356 Coordinate with organizational manpower stakeholders to ensure appropriate allocation and distribution of human capital assets. Additiona T0364 Develop cyber career field classification structure to include establishing career field entry requirements and other nomenclature such as codes and identifiers. Additiona T0365 Develop or assist in the development of training policies and protocols for cyber training. Additiona T0373 Establish and oversee waiver processes for cyber career field entry and training qualification requirements. Additiona T0384 Promote awareness of cyber policy and strategy as appropriate among management and ensure sound principles are reflected in the organization's mission, vision, and goals. Additiona T0408 Interpret and apply applicable laws, statutes, and regulatory documents and integrate into policy. Additiona T0425 Analyze organizational cyber policy. Additiona T0429 Assess policy needs and collaborate with stakeholders to develop policies to govern cyber activities. Additiona T0437 Correlate training and learning to business or mission requirements. Additiona T0441 Define and integrate current and future mission environments. Additiona T0472 Draft, staff, and publish cyber policy. T0505 Monitor the rigorous application of cyber policies, principles, and practices in the delivery of planning and management services. Additiona T0506 Seek consensus on proposed policy changes from stakeholders. Additiona	T0222	Review existing and proposed policies with stakeholders.	Additional
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and distribution of human capital assets. T0364 Develop cyber career field classification structure to include establishing career field entry requirements and other nomenclature such as codes and identifiers. Develop or assist in the development of training policies and protocols for cyber training. Establish and oversee waiver processes for cyber career field entry and training qualification requirements. Additiona Promote awareness of cyber policy and strategy as appropriate among management and ensure sound principles are reflected in the organization's mission, vision, and goals. Additiona Interpret and apply applicable laws, statutes, and regulatory documents and integrate into policy. Analyze organizational cyber policy. Additiona Assess policy needs and collaborate with stakeholders to develop policies to govern cyber activities. Additiona T0437 Correlate training and learning to business or mission requirements. Additiona T0472 Draft, staff, and publish cyber policy. Monitor the rigorous application of cyber policies, principles, and practices in the delivery of planning and management services. Additiona T0506 Seek consensus on proposed policy changes from stakeholders. Additiona	T0352	Conduct learning needs assessments and identify requirements.	Additional
entry requirements and other nomenclature such as codes and identifiers. Develop or assist in the development of training policies and protocols for cyber training. Establish and oversee waiver processes for cyber career field entry and training qualification requirements. Promote awareness of cyber policy and strategy as appropriate among management and ensure sound principles are reflected in the organization's mission, vision, and goals. Interpret and apply applicable laws, statutes, and regulatory documents and integrate into policy. Additional Assess policy needs and collaborate with stakeholders to develop policies to govern cyber activities. Additional Correlate training and learning to business or mission requirements. Define and integrate current and future mission environments. Define and integrate current and future mission environments. Monitor the rigorous application of cyber policies, principles, and practices in the delivery of planning and management services. Additional Costa	T0356	• , , ,	Additional
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T0441 Define and integrate current and future mission environments. T0472 Draft, staff, and publish cyber policy. T0505 Monitor the rigorous application of cyber policies, principles, and practices in the delivery of planning and management services. T0506 Seek consensus on proposed policy changes from stakeholders. Additiona Additiona Additiona	T0429		Additional
T0472 Draft, staff, and publish cyber policy. T0505 Monitor the rigorous application of cyber policies, principles, and practices in the delivery of planning and management services. Additiona T0506 Seek consensus on proposed policy changes from stakeholders. Additiona	T0437	Correlate training and learning to business or mission requirements.	Additional
T0505 Monitor the rigorous application of cyber policies, principles, and practices in the delivery of planning and management services. T0506 Seek consensus on proposed policy changes from stakeholders. Additiona	T0441	Define and integrate current and future mission environments.	Additional
delivery of planning and management services. Additiona T0506 Seek consensus on proposed policy changes from stakeholders. Additiona	T0472	Draft, staff, and publish cyber policy.	Additional
Seek consensus on proposed policy changes from stakeholders. Additiona	T0505		Additional
T0529 Provide policy guidance to cyber management, staff, and users. Additiona	T0506	Seek consensus on proposed policy changes from stakeholders.	Additional
1,111	T0529	Provide policy guidance to cyber management, staff, and users.	Additional
T0533 Review, conduct, or participate in audits of cyber programs and projects. Additiona	T0533	Review, conduct, or participate in audits of cyber programs and projects.	Additional
T0536 Serve as an internal consultant and advisor in own area of expertise (e.g., technical, copyright, print media, electronic media). Additiona	T0536	• • •	Additional
T0537 Support the CIO in the formulation of cyber-related policies. Additiona	T0537	Support the CIO in the formulation of cyber-related policies.	Additional
T0552	T0552		Additional

1.3 Core Knowledge, Skills, and Abilities

The table below provides a ranking of KSAs that represent the Core, or baseline, expectations for performance in the 751-Cyber Workforce Developer and Manager work role, as well as additional KSAs that those in this role may be expected to demonstrate.

Table 3. 751-Cyber Workforce Developer and Manager Core Knowledge, Skills, and Abilities

KSA ID	Description Competency		Importance to Work Role
K0004	Knowledge of cybersecurity and privacy principles.	Information Systems/Network Security	Foundational to All Work Roles
K0001	Knowledge of computer networking concepts and protocols, and network security methodologies.	Infrastructure Design	Foundational to All Work Roles
K0003	Knowledge of laws, regulations, policies, and ethics as they relate to cybersecurity and privacy.	Legal, Government, and Jurisprudence	Foundational to All Work Roles
K0002	Knowledge of risk management processes (e.g., methods for assessing and mitigating risk).	Risk Management	Foundational to All Work Roles
K0005	Knowledge of cyber threats and vulnerabilities.	Vulnerabilities Assessment	Foundational to All Work Roles
К0006	Knowledge of specific operational impacts of cybersecurity lapses.	Vulnerabilities Assessment	Foundational to All Work Roles
A0037	Ability to leverage best practices and lessons learned of external organizations and academic institutions dealing with cyber issues.	External Awareness	Core
K0233	Knowledge of the National Cybersecurity Workforce Framework, work roles, and associated tasks, knowledge, skills, and abilities.	External Awareness	Core
K0313	Knowledge of external organizations and academic institutions with cyber focus (e.g., cyber curriculum/training and Research & Development).	External Awareness	Core
K0241	Knowledge of organizational human resource policies, processes, and procedures.	Organizational Awareness	Core
A0033	Ability to develop policy, plans, and strategy in compliance with laws, regulations, policies, and standards in support of organizational cyber activities.	Policy Management	Core
A0028	Ability to assess and forecast manpower requirements to meet organizational objectives.	Strategic Planning	Core
K0243	Knowledge of organizational training and education policies, processes, and procedures.	Teaching Others	Core
A0053	Ability to determine the validity of workforce trend data.	Workforce Management	Core
S0108	Skill in developing workforce and position qualification standards.	Workforce Management	Core

K0234	Knowledge of full spectrum cyber capabilities (e.g., defense, attack, exploitation).	Computer Network Defense	Additional
K0101	Knowledge of the organization's enterprise information technology (IT) goals and objectives.	Enterprise Architecture	Additional
A0023	Ability to design valid and reliable assessments.	Information Technology Assessment	Additional
K0127	Knowledge of the nature and function of the relevant information structure (e.g., National Information Infrastructure).	Legal, Government, and Jurisprudence	Additional
K0168	Knowledge of applicable laws, statutes (e.g., in Titles 10, 18, 32, 50 in U.S. Code), Presidential Directives, executive branch guidelines, and/or administrative/criminal legal guidelines and procedures.	Legal, Government, and Jurisprudence	Additional
K0146	Knowledge of the organization's core business/mission processes.	Organizational Awareness	Additional
K0072	Knowledge of resource management principles and techniques.	Project Management	Additional
K0169	Knowledge of information technology (IT) supply chain security and supply chain risk management policies, requirements, and procedures.	Risk Management	Additional
K0204	Knowledge of learning assessment techniques (rubrics, evaluation plans, tests, quizzes).	Teaching Others	Additional
K0215	Knowledge of organizational training policies.	Teaching Others	Additional
K0309	Knowledge of emerging technologies that have potential for exploitation.	Technology Awareness	Additional
K0311	Knowledge of industry indicators useful for identifying technology trends.	Technology Awareness	Additional
K0335	Knowledge of current and emerging cyber technologies.	Technology Awareness	Additional
K0147	Knowledge of emerging security issues, risks, and vulnerabilities.	Vulnerabilities Assessment	Additional
A0042	Ability to develop career path opportunities.	Workforce Management	Additional
S0128	Skill in using manpower and personnel IT systems.	Workforce Management	Additional

1.4 Core Competencies

The table below is a compilation of competencies aligned to the 751-Cyber Workforce Developer and Manager work role, and their associated importance. *These competencies originate from the NICE Framework Competency Pivot Tool.*

Table 4. 751-Cyber Workforce Developer and Manager Core Competencies

Technical Competency	Comp ID	Definition	Work Role Related KSAs	Importance
External Awareness	C019	This area contains KSAs that relate to identifying and understanding how internal and external issues (e.g., economic, political, social trends) impact the work of the organization	 Ability to leverage best practices and lessons learned of external organizations and academic institutions dealing with cyber issues. Knowledge of the National Cybersecurity Workforce Framework, work roles, and associated tasks, knowledge, skills, and abilities. Knowledge of external organizations and academic institutions with cyber focus (e.g., cyber curriculum/training and Research & Development). 	Core
Legal, Government, and Jurisprudence	C030	This area contains KSAs that relate to laws, regulations, policies, and ethics that can impact organizational activities.	 Knowledge of laws, regulations, policies, and ethics as they relate to cybersecurity and privacy. Knowledge of the nature and function of the relevant information structure (e.g., National Information Infrastructure). Knowledge of applicable laws, statutes (e.g., in Titles 10, 18, 32, 50 in U.S. Code), Presidential Directives, executive branch guidelines, and/or administrative/criminal legal guidelines and procedures. 	Core
Teaching Others	C052	This area contains KSAs that relate to imparting knowledge of or giving information about or instruction in (a subject or skill)	 Knowledge of organizational training and education policies, processes, and procedures. Knowledge of learning assessment techniques (rubrics, evaluation plans, tests, quizzes). Knowledge of organizational training policies. 	Core
Workforce Management	C059	This area contains KSAs that relate to the activities needed to maintain a productive workforce	 Ability to determine the validity of workforce trend data. Skill in developing workforce and position qualification standards. Ability to develop career path opportunities. Skill in using manpower and personnel IT systems. 	Core

Technical Competency	Comp ID	Definition	Work Role Related KSAs	Importance
Technology Awareness	C053	This area contains KSAs that relate to keeping upto-date on technological developments and making effective use of technology to achieve results	 Knowledge of emerging technologies that have potential for exploitation. Knowledge of industry indicators useful for identifying technology trends. Knowledge of current and emerging cyber technologies. 	Additional
Vulnerabilities Assessment	C057	This area contains KSAs that relate to the principles, methods, and tools for assessing vulnerabilities and developing or recommending appropriate mitigation countermeasures.	 Knowledge of cyber threats and vulnerabilities. Knowledge of specific operational impacts of cybersecurity lapses. Knowledge of emerging security issues, risks, and vulnerabilities. 	Additional

1.5 Suggested Qualifications / Capability Indicators

Table 5. 751-Cyber Workforce Developer and Manager Suggested Qualifications

For indicators of capability for the 751-Cyber Workforce Developer and Manager work role, please see <u>Draft NISTR 8193 - National</u> <u>Initiative for Cybersecurity Education (NICE) Framework Work Role Capability Indicators</u> .
Section to be populated with updated DoD-8140 Qualification Matrix for 751-Cyber Workforce Developer and Manager.

2 APPENDIX: 751-CYBER WORKFORCE DEVELOPER AND MANAGER TASK ANALYSIS AND KSA MAPPING

2.1. Key to Reading the Task Analysis and KSA Mapping

Table 6. Key to Reading the Task Analysis and KSA Mapping

Proficiency	Task Statement	Importance
As Written	Task as written within the NICE Cybersecurity Workforce Framework (NICE Framework). Overall Importance to Work	
As Written	Task as written within the Nice Cybersecurity Workforce Trainiework (Nice Trainiework).	Role
Entry	Behavioral indicator for performing this task at the foundational skills proficiency level.	
Intermediate	Behavioral indicator for performing this task at the Intermediate skills proficiency level.	
Advanced	Behavioral indicator for performing this task at the Advanced skills proficiency level.	

Table 7. Primary Knowledge, Skills, and Abilities Required to Perform the above Task

KSA ID	Description	Competency
ID of K, S, or A	Knowledge, Skill or Ability needed to perform the task as written within the NICE Framework	Competency mapped to the individual K, S, or A.

2.2 751-Cyber Workforce Developer and Manager Task Analysis and KSA Mapping

Table 8. T0341 Task Analysis

Proficiency	Task Statement	Importance
As Written within Framework	Advocate for adequate funding for cyber training resources, to include both internal and industry-provided courses, instructors, and related materials.	Core
Entry	Garners support at appropriate organizational levels for adequate funding for cyber training rinternal and industry-provided courses, instructors, and related materials.	resources, to include both
Intermediate	Advocate to leadership and a broad base of stakeholders for adequate funding for cyber train both internal and industry-provided courses, instructors, and related materials.	ing resources, to include
Advanced	Champion at the senior leadership level for adequate funding for cyber training resources, to industry-provided courses, instructors, and related materials.	include both internal and

Table 9. Primary Knowledge, Skills, and Abilities Required to Perform the above Task

KSA ID	Description	Competency
K0101	Knowledge of the organization's enterprise information technology (IT) goals and objectives.	Enterprise Architecture
K0233	Knowledge of the National Cybersecurity Workforce Framework, work roles, and associated tasks, knowledge, skills, and abilities.	External Awareness
	Knowledge of external organizations and academic institutions with cyber focus	
K0313	(e.g., cyber curriculum/training and Research & Development).	External Awareness
K0072	Knowledge of resource management principles and techniques.	Project Management
K0243	Knowledge of organizational training and education policies, processes, and procedures.	Teaching Others
K0215	Knowledge of organizational training policies.	Teaching Others
		Vulnerabilities
К0006	Knowledge of specific operational impacts of cybersecurity lapses.	Assessment
		Vulnerabilities
K0147	Knowledge of emerging security issues, risks, and vulnerabilities.	Assessment

Table 10. T0355 Task Analysis

Proficiency	Task Statement	Importance
As Written within Framework	Coordinate with internal and external subject matter experts to ensure existing qualification standards reflect organizational functional requirements and meet industry standards.	Core
Entry	Coordinate with internal and external subject matter experts to ensure existing qualification s organizational functional requirements and meet industry standards.	tandards reflect
Intermediate	Lead coordination with internal and external subject matter experts to ensure existing qualifi organizational functional requirements and meet industry standards.	cation standards reflect
Advanced	Oversee others who coordinate with internal and external subject matter experts to ensure ex standards reflect organizational functional requirements and meet industry standards.	kisting qualification

Table 11. Primary Knowledge, Skills, and Abilities Required to Perform the above Task

KSA ID	Description	Competency
K0101	Knowledge of the organization's enterprise information technology (IT) goals and objectives.	Enterprise Architecture
K0233	Knowledge of the National Cybersecurity Workforce Framework, work roles, and associated tasks, knowledge, skills, and abilities.	External Awareness
A0037	Ability to leverage best practices and lessons learned of external organizations and academic institutions dealing with cyber issues.	External Awareness
K0313	Knowledge of external organizations and academic institutions with cyber focus (e.g., cyber curriculum/training and Research & Development).	External Awareness
K0146	Knowledge of the organization's core business/mission processes.	Organizational Awareness
K0147	Knowledge of emerging security issues, risks, and vulnerabilities.	Vulnerabilities Assessment
S0108	Skill in developing workforce and position qualification standards.	Workforce Management

Proficiency	Task Statement	Importance
As Written within Framework	Develop and implement standardized position descriptions based on established cyber work roles.	Core
Entry	Develop and implement routine standardized position descriptions based on established cyber work roles.	
Intermediate	Develop and implement complex or novel standardized position descriptions based on established cyber work roles.	
Advanced	Oversee the development and implementation of standardized position descriptions based on roles.	established cyber work

Table 13. Primary Knowledge, Skills, and Abilities Required to Perform the above Task

KSA ID	Description	Competency
	Knowledge of the National Cybersecurity Workforce Framework, work roles, and	
K0233	associated tasks, knowledge, skills, and abilities.	External Awareness
	Ability to leverage best practices and lessons learned of external organizations and	
A0037	academic institutions dealing with cyber issues.	External Awareness
	Knowledge of applicable laws, statutes (e.g., in Titles 10, 18, 32, 50 in U.S. Code),	
	Presidential Directives, executive branch guidelines, and/or	Legal, Government,
K0168	administrative/criminal legal guidelines and procedures.	and Jurisprudence
		Organizational
K0241	Knowledge of organizational human resource policies, processes, and procedures.	Awareness
		Vulnerabilities
K0147	Knowledge of emerging security issues, risks, and vulnerabilities.	Assessment
		Workforce
S0108	Skill in developing workforce and position qualification standards.	Management

Table 14. T0363 Task Analysis

Proficiency	Task Statement	Importance
As Written within Framework	Develop and review recruiting, hiring, and retention procedures in accordance with current HR policies.	Core
Entry	Develop and reviews routine recruiting, hiring, and retention procedures in accordance with current HR policies.	
Intermediate	Develop and reviews complex or novel recruiting, hiring, and retention procedures in accordance with current HR policies.	
Advanced	Oversee the development and review of recruiting, hiring, and retention procedures in accordance policies.	ance with current HR

Table 15. Primary Knowledge, Skills, and Abilities Required to Perform the above Task

KSA ID	Description	Competency
	Knowledge of the National Cybersecurity Workforce Framework, work roles, and	
K0233	associated tasks, knowledge, skills, and abilities.	External Awareness
	Ability to leverage best practices and lessons learned of external organizations and	
A0037	academic institutions dealing with cyber issues.	External Awareness
		Information
		Technology
A0023	Ability to design valid and reliable assessments.	Assessment
	Knowledge of applicable laws, statutes (e.g., in Titles 10, 18, 32, 50 in U.S. Code),	
	Presidential Directives, executive branch guidelines, and/or	Legal, Government,
K0168	administrative/criminal legal guidelines and procedures.	and Jurisprudence
		Organizational
K0241	Knowledge of organizational human resource policies, processes, and procedures.	Awareness
		Organizational
K0146	Knowledge of the organization's core business/mission processes.	Awareness
	Ability to develop policy, plans, and strategy in compliance with laws, regulations,	
A0033	policies, and standards in support of organizational cyber activities.	Policy Management
K0072	Knowledge of resource management principles and techniques.	Project Management
	Knowledge of organizational training and education policies, processes, and	
K0243	procedures.	Teaching Others
K0215	Knowledge of organizational training policies.	Teaching Others
		Workforce
S0108	Skill in developing workforce and position qualification standards.	Management
		Workforce
A0042	Ability to develop career path opportunities.	Management

Table 16. T0368 Task Analysis

Proficiency	Task Statement	Importance
As Written within Framework	Ensure that cyber career fields are managed in accordance with organizational HR policies and directives.	Core
Entry	Ensure that cyber career fields are managed in accordance with organizational HR policies and directives.	
Intermediate	Lead efforts to ensure that cyber career fields are managed in accordance with organizational HR policies and directives.	
Advanced	Oversee all efforts to ensure that cyber career fields are managed in accordance with organize directives.	ational HR policies and

Table 17. Primary Knowledge, Skills, and Abilities Required to Perform the above Task

KSA ID	Description	Competency
		Organizational
K0241	Knowledge of organizational human resource policies, processes, and procedures.	Awareness
		Organizational
K0146	Knowledge of the organization's core business/mission processes.	Awareness
	Ability to develop policy, plans, and strategy in compliance with laws, regulations,	
A0033	policies, and standards in support of organizational cyber activities.	Policy Management
K0072	Knowledge of resource management principles and techniques.	Project Management

Table 18. T0369 Task Analysis

Proficiency	Task Statement	Importance
As Written within Framework	Ensure that cyber workforce management policies and processes comply with legal and organizational requirements regarding equal opportunity, diversity, and fair hiring/employment practices.	Core
Entry	Ensure that cyber workforce management policies and processes comply with legal and organizational requirements regarding equal opportunity, diversity, and fair hiring/employment practices.	
Intermediate	Lead efforts to ensure that cyber workforce management policies and processes comply with requirements regarding equal opportunity, diversity, and fair hiring/employment practices.	legal and organizational
Advanced	Oversee all efforts to ensure that cyber workforce management policies and processes comply organizational requirements regarding equal opportunity, diversity, and fair hiring/employme	_

Table 19. Primary Knowledge, Skills, and Abilities Required to Perform the above Task

KSA ID	Description	Competency
	Knowledge of applicable laws, statutes (e.g., in Titles 10, 18, 32, 50 in U.S. Code),	
	Presidential Directives, executive branch guidelines, and/or	Legal, Government,
K0168	administrative/criminal legal guidelines and procedures.	and Jurisprudence
		Organizational
K0241	Knowledge of organizational human resource policies, processes, and procedures.	Awareness
	Ability to develop policy, plans, and strategy in compliance with laws, regulations,	
A0033	policies, and standards in support of organizational cyber activities.	Policy Management

Table 20. T0372 Task Analysis

Proficiency	Task Statement	Importance
As Written within Framework	Establish and collect metrics to monitor and validate cyber workforce readiness including analysis of cyber workforce data to assess the status of positions identified, filled, and filled with qualified personnel.	Core
Entry	Establish and collects metrics to monitor and validate cyber workforce readiness including analysis of cyber workforce data to assess the status of positions identified, filled, and filled with qualified personnel.	
Intermediate	Establish and collects complex or novel metrics to monitor and validate cyber workforce readiness including analysis of cyber workforce data to assess the status of positions identified, filled, and filled with qualified personnel.	
Advanced	Oversee the establishment and collection of metrics to monitor and validate cyber workforce analysis of cyber workforce data to assess the status of positions identified, filled, and filled w	

Table 21. Primary Knowledge, Skills, and Abilities Required to Perform the above Task

KSA ID	Description	Competency
	Knowledge of the National Cybersecurity Workforce Framework, work roles, and	
K0233	associated tasks, knowledge, skills, and abilities.	External Awareness
K0072	Knowledge of resource management principles and techniques.	Project Management
	Ability to assess and forecast manpower requirements to meet organizational	
A0028	objectives.	Strategic Planning
		Vulnerabilities
K0006	Knowledge of specific operational impacts of cybersecurity lapses.	Assessment
		Workforce
S0128	Skill in using manpower and personnel IT systems.	Management
		Workforce
A0053	Ability to determine the validity of workforce trend data.	Management

Table 22. T0374 Task Analysis

Proficiency	Task Statement	Importance
As Written within Framework	Establish cyber career paths to allow career progression, deliberate development, and growth within and between cyber career fields.	Core
Entry	Establish routine cyber career paths to allow career progression, deliberate development, and growth within and between cyber career fields.	
Intermediate	Establish complex or novel cyber career paths to allow career progression, deliberate development, and growth within and between cyber career fields.	
Advanced	Oversee the establishment of cyber career paths to allow career progression, deliberate development and between cyber career fields.	opment, and growth

Table 23. Primary Knowledge, Skills, and Abilities Required to Perform the above Task

KSA ID	Description	Competency
	Knowledge of the National Cybersecurity Workforce Framework, work roles, and	
K0233	associated tasks, knowledge, skills, and abilities.	External Awareness
	Knowledge of external organizations and academic institutions with cyber focus	
K0313	(e.g., cyber curriculum/training and Research & Development).	External Awareness
		Organizational
K0241	Knowledge of organizational human resource policies, processes, and procedures.	Awareness
		Organizational
K0146	Knowledge of the organization's core business/mission processes.	Awareness
	Knowledge of organizational training and education policies, processes, and	
K0243	procedures.	Teaching Others
		Workforce
S0108	Skill in developing workforce and position qualification standards.	Management
		Workforce
A0042	Ability to develop career path opportunities.	Management

Table 24. T0375 Task Analysis

Proficiency	Task Statement	Importance
As Written within Framework	Establish manpower, personnel, and qualification data element standards to support cyber workforce management and reporting requirements.	Core
Entry	Establish routine manpower, personnel, and qualification data element standards to support cyber workforce management and reporting requirements.	
Intermediate	Establish complex or novel manpower, personnel, and qualification data element standards to support cyber workforce management and reporting requirements.	
Advanced	Oversee the establishment of manpower, personnel, and qualification data element standard workforce management and reporting requirements.	s to support cyber

Table 25. Primary Knowledge, Skills, and Abilities Required to Perform the above Task

KSA ID	Description	Competency
	Knowledge of the National Cybersecurity Workforce Framework, work roles, and	
K0233	associated tasks, knowledge, skills, and abilities.	External Awareness
	Knowledge of applicable laws, statutes (e.g., in Titles 10, 18, 32, 50 in U.S. Code),	
	Presidential Directives, executive branch guidelines, and/or	Legal, Government,
K0168	administrative/criminal legal guidelines and procedures.	and Jurisprudence
		Organizational
K0241	Knowledge of organizational human resource policies, processes, and procedures.	Awareness
	Ability to develop policy, plans, and strategy in compliance with laws, regulations,	
A0033	policies, and standards in support of organizational cyber activities.	Policy Management
		Workforce
A0053	Ability to determine the validity of workforce trend data.	Management
		Workforce
S0128	Skill in using manpower and personnel IT systems.	Management
		Workforce
S0108	Skill in developing workforce and position qualification standards.	Management

Table 26. T0376 Task Analysis

Proficiency	Task Statement	Importance
As Written within Framework	Establish, resource, implement, and assess cyber workforce management programs in accordance with organizational requirements.	Core
Entry	Establish, resource, implement and assess routine cyber workforce management programs in accordance with organizational requirements.	
Intermediate	Establish, resources and update complex or novel cyber workforce management programs in accordance with organizational requirements.	
Advanced	Oversee the establishment, resourcing, implementation, and assessment of cyber workforce reaccordance with organizational requirements.	management programs in

Table 27. Primary Knowledge, Skills, and Abilities Required to Perform the above Task

KSA ID	Description	Competency
	Knowledge of the organization's enterprise information technology (IT) goals and	Enterprise
K0101	objectives.	Architecture
	Knowledge of the National Cybersecurity Workforce Framework, work roles, and	
K0233	associated tasks, knowledge, skills, and abilities.	External Awareness
	Ability to leverage best practices and lessons learned of external organizations and	
A0037	academic institutions dealing with cyber issues.	External Awareness
	Knowledge of applicable laws, statutes (e.g., in Titles 10, 18, 32, 50 in U.S. Code),	
	Presidential Directives, executive branch guidelines, and/or	Legal, Government,
K0168	administrative/criminal legal guidelines and procedures.	and Jurisprudence
		Organizational
K0241	Knowledge of organizational human resource policies, processes, and procedures.	Awareness
	Ability to develop policy, plans, and strategy in compliance with laws, regulations,	
A0033	policies, and standards in support of organizational cyber activities.	Policy Management
K0072	Knowledge of resource management principles and techniques.	Project Management
		Vulnerabilities
K0006	Knowledge of specific operational impacts of cybersecurity lapses.	Assessment
		Workforce
A0053	Ability to determine the validity of workforce trend data.	Management

Table 28. T0387 Task Analysis

Proficiency	Task Statement	Importance
As Written within Framework	Review and apply cyber career field qualification standards.	Core
Entry	Assist with reviewing cyber career field qualification standards.	
Intermediate	Review cyber career field qualification standards.	
Advanced	Lead and oversee the review and application of cyber career field qualification standards.	

Table 29. Primary Knowledge, Skills, and Abilities Required to Perform the above Task

KSA ID	Description	Competency
	Knowledge of the National Cybersecurity Workforce Framework, work roles, and	
K0233	associated tasks, knowledge, skills, and abilities.	External Awareness
	Ability to leverage best practices and lessons learned of external organizations and	
A0037	academic institutions dealing with cyber issues.	External Awareness
		Information
		Systems/Network
K0004	Knowledge of cybersecurity and privacy principles.	Security
	Knowledge of applicable laws, statutes (e.g., in Titles 10, 18, 32, 50 in U.S. Code),	
	Presidential Directives, executive branch guidelines, and/or	Legal, Government,
K0168	administrative/criminal legal guidelines and procedures.	and Jurisprudence
		Organizational
K0241	Knowledge of organizational human resource policies, processes, and procedures.	Awareness
		Workforce
S0108	Skill in developing workforce and position qualification standards.	Management

Table 30. T0388 Task Analysis

Proficiency	Task Statement	Importance
As Written within Framework	Review and apply organizational policies related to or influencing the cyber workforce.	Core
Entry	Assist with reviewing organizational policies related to or influencing the cyber workforce.	
Intermediate	Review organizational policies related to or influencing the cyber workforce.	
Advanced	Lead and oversee the review and application of organizational policies related to or influencing the cyber workforce.	

Table 31. Primary Knowledge, Skills, and Abilities Required to Perform the above Task

KSA ID	Description	Competency
	Knowledge of the organization's enterprise information technology (IT) goals and	Enterprise
K0101	objectives.	Architecture
	Knowledge of the National Cybersecurity Workforce Framework, work roles, and	
K0233	associated tasks, knowledge, skills, and abilities.	External Awareness
	Ability to leverage best practices and lessons learned of external organizations and	
A0037	academic institutions dealing with cyber issues.	External Awareness
		Organizational
K0241	Knowledge of organizational human resource policies, processes, and procedures.	Awareness
		Organizational
K0146	Knowledge of the organization's core business/mission processes.	Awareness
	Knowledge of organizational training and education policies, processes, and	
K0243	procedures.	Teaching Others
K0215	Knowledge of organizational training policies.	Teaching Others
		Vulnerabilities
K0006	Knowledge of specific operational impacts of cybersecurity lapses.	Assessment

Table 32. T0390 Task Analysis

Proficiency	Task Statement	Importance
As Written within Framework	Review/Assess cyber workforce effectiveness to adjust skill and/or qualification standards.	Core
Entry	Assist with reviewing/assessing cyber workforce effectiveness to adjust skill and/or qualification standards.	
Intermediate	Review/Assess cyber workforce effectiveness to adjust skill and/or qualification standards.	
Advanced	Oversee the review/assessment of cyber workforce effectiveness to adjust skill and/or qualification standards.	

Table 33. Primary Knowledge, Skills, and Abilities Required to Perform the above Task

KSA ID	Description	Competency
	Knowledge of the National Cybersecurity Workforce Framework, work roles, and	
K0233	associated tasks, knowledge, skills, and abilities.	External Awareness
		Information
		Technology
A0023	Ability to design valid and reliable assessments.	Assessment
		Organizational
K0241	Knowledge of organizational human resource policies, processes, and procedures.	Awareness
	Ability to assess and forecast manpower requirements to meet organizational	
A0028	objectives.	Strategic Planning
	Knowledge of learning assessment techniques (rubrics, evaluation plans, tests,	
K0204	quizzes).	Teaching Others
		Technology
K0335	Knowledge of current and emerging cyber technologies.	Awareness
		Vulnerabilities
K0147	Knowledge of emerging security issues, risks, and vulnerabilities.	Assessment
		Vulnerabilities
K0005	Knowledge of cyber threats and vulnerabilities.	Assessment
		Vulnerabilities
К0006	Knowledge of specific operational impacts of cybersecurity lapses.	Assessment
		Workforce
S0128	Skill in using manpower and personnel IT systems.	Management
		Workforce
A0053	Ability to determine the validity of workforce trend data.	Management

Table 34. T0391 Task Analysis

Proficiency	Task Statement	Importance
As Written within Framework	Support integration of qualified cyber workforce personnel into information systems life cycle development processes.	Core
Entry	Support integration of qualified cyber workforce personnel into information systems life cycle development processes.	
Intermediate	Integrate integration of qualified cyber workforce personnel into information systems life cycle development processes.	
Advanced	Develop integration of qualified cyber workforce personnel into information systems life cycle development processes.	

Table 35. Primary Knowledge, Skills, and Abilities Required to Perform the above Task

KSA ID	Description	Competency
	Knowledge of the organization's enterprise information technology (IT) goals and	Enterprise
K0101	objectives.	Architecture
	Knowledge of the National Cybersecurity Workforce Framework, work roles, and	
K0233	associated tasks, knowledge, skills, and abilities.	External Awareness
		Information
		Technology
A0023	Ability to design valid and reliable assessments.	Assessment
	Knowledge of computer networking concepts and protocols, and network security	
K0001	methodologies.	Infrastructure Design
		Workforce
A0042	Ability to develop career path opportunities.	Management
		Workforce
S0108	Skill in developing workforce and position qualification standards.	Management

Table 36. T0445 Task Analysis

Proficiency	Task Statement	Importance
As Written within Framework	Design/integrate a cyber strategy that outlines the vision, mission, and goals that align with the organization's strategic plan.	Core
Entry	Help with designing/integrating a cyber strategy that outlines the vision, mission, and goals that align with the organization's strategic plan.	
Intermediate	Design/integrate a cyber strategy that outlines the vision, mission, and goals that align with the organization's strategic plan.	
Advanced	Oversee the design/integration a cyber strategy that outlines the vision, mission, and goals that align with the organization's strategic plan.	

Table 37. Primary Knowledge, Skills, and Abilities Required to Perform the above Task

KSA ID	Description	Competency
	Knowledge of the organization's enterprise information technology (IT) goals and	Enterprise
K0101	objectives.	Architecture
	Ability to leverage best practices and lessons learned of external organizations and	
A0037	academic institutions dealing with cyber issues.	External Awareness
	Knowledge of external organizations and academic institutions with cyber focus	
K0313	(e.g., cyber curriculum/training and Research & Development).	External Awareness
		Information
		Systems/Network
K0004	Knowledge of cybersecurity and privacy principles.	Security
	Knowledge of laws, regulations, policies, and ethics as they relate to cybersecurity	Legal, Government,
K0003	and privacy.	and Jurisprudence
	Knowledge of applicable laws, statutes (e.g., in Titles 10, 18, 32, 50 in U.S. Code),	
	Presidential Directives, executive branch guidelines, and/or	Legal, Government,
K0168	administrative/criminal legal guidelines and procedures.	and Jurisprudence
		Organizational
K0241	Knowledge of organizational human resource policies, processes, and procedures.	Awareness
		Organizational
K0146	Knowledge of the organization's core business/mission processes.	Awareness
	Ability to develop policy, plans, and strategy in compliance with laws, regulations,	
A0033	policies, and standards in support of organizational cyber activities.	Policy Management
K0072	Knowledge of resource management principles and techniques.	Project Management
	Knowledge of organizational training and education policies, processes, and	
K0243	procedures.	Teaching Others
K0215	Knowledge of organizational training policies.	Teaching Others
		Technology
K0335	Knowledge of current and emerging cyber technologies.	Awareness
		Vulnerabilities
K0005	Knowledge of cyber threats and vulnerabilities.	Assessment
		Vulnerabilities
K0006	Knowledge of specific operational impacts of cybersecurity lapses.	Assessment

		Vulnerabilities
K0147	Knowledge of emerging security issues, risks, and vulnerabilities.	Assessment

Table 38. T0481 Task Analysis

Proficiency	Task Statement	Importance
As Written within Framework	Identify and address cyber workforce planning and management issues (e.g. recruitment, retention, and training).	Core
Entry	Support the identification of cyber workforce planning and management issues (e.g. recruitment, retention, and training).	
Intermediate	Identify and address routine cyber workforce planning and management issues (e.g. recruitment, retention, and training).	
Advanced	Oversee cyber workforce planning and management issues (e.g. recruitment, retention, and to	raining).

Table 39. Primary Knowledge, Skills, and Abilities Required to Perform the above Task

KSA ID	Description	Competency
	Knowledge of the National Cybersecurity Workforce Framework, work roles, and	
K0233	associated tasks, knowledge, skills, and abilities.	External Awareness
	Ability to leverage best practices and lessons learned of external organizations and	
A0037	academic institutions dealing with cyber issues.	External Awareness
		Information
		Technology
A0023	Ability to design valid and reliable assessments.	Assessment
	Knowledge of applicable laws, statutes (e.g., in Titles 10, 18, 32, 50 in U.S. Code),	
	Presidential Directives, executive branch guidelines, and/or	Legal, Government,
K0168	administrative/criminal legal guidelines and procedures.	and Jurisprudence
		Organizational
K0241	Knowledge of organizational human resource policies, processes, and procedures.	Awareness
		Organizational
K0146	Knowledge of the organization's core business/mission processes.	Awareness
K0072	Knowledge of resource management principles and techniques.	Project Management
	Ability to assess and forecast manpower requirements to meet organizational	
A0028	objectives.	Strategic Planning
	Knowledge of organizational training and education policies, processes, and	
K0243	procedures.	Teaching Others
K0215	Knowledge of organizational training policies.	Teaching Others
		Workforce
S0108	Skill in developing workforce and position qualification standards.	Management
		Workforce
A0042	Ability to develop career path opportunities.	Management