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CAREER PATHWAY PROGRAM MANAGER (801)

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1 801-PROGRAM MANAGER

1.1 WORK ROLE OVERVIEW

The table below provides an overview of various role-specific elements related to 801-Program Manager.

Table 1. 801-Program Manager Work Role Overview

NICE Role Description	Leads, coordinates, communicates, integrates, and is accountable for the overall success of the program, ensuring alignment with agency or enterprise priorities.
OPM Occupational Series	<p>Personnel performing the 801-Program Manager work role are most commonly aligned to the following Occupational Series: (Top 5 Shown)</p> <ul style="list-style-type: none"> - 2210-Information Technology – 48% - 301-Misc. Administration and Program – 8% - 340-Program Management – 6% - 343-Management and Program Analysis – 5% - 1101-General Business and Industry – 4%
Work Role Pairings	<p>Personnel performing the 801-Program Manager work role are most commonly paired with the following complimentary Work Roles (Top 5 shown):</p> <ul style="list-style-type: none"> - 802-IT Project Manager – 27% - 411-Technical Support Specialist – 9% - 804-IT Investment/Portfolio Manager – 7% - 641-Systems Requirements Planner – 7% - 803-Product Support Manager – 5%
Functional Titles	<p>Personnel performing the 801-Program Manager work role may unofficially or alternatively be called:</p> <ul style="list-style-type: none"> - Compliance Manager - IT / Cybersecurity Program Manager - Cybersecurity Officer - Enterprise Security Officer - Facility Security Officer - Information Technology (IT)/Security Director - Infrastructure/Security Manager - IT Governance Manager - Mission / Business Owner - Management and Program Analysis Officer - Program Lead

<p>Distribution of GS-Levels</p>	<p>Personnel performing the 801-Program Manager work role are most commonly found within the following grades on the General Schedule.*</p> <ul style="list-style-type: none"> - <input type="checkbox"/> GS-4 – redacted** - <input type="checkbox"/> GS-5 – redacted** - <input type="checkbox"/> GS-6 – redacted** - <input type="checkbox"/> GS-7 – redacted** - <input type="checkbox"/> GS-8 – redacted** - <input type="checkbox"/> GS-9 – redacted** - <input type="checkbox"/> GS-10 – redacted** - <input type="checkbox"/> GS-11 – redacted** - <input checked="" type="checkbox"/> GS-12 – 11% - <input checked="" type="checkbox"/> GS-13 – 18% - <input checked="" type="checkbox"/> GS-14 – 23% - <input checked="" type="checkbox"/> GS-15 – 18% <p>*26% of all 801s are in non-GS pay plans and excluded from this section ** Percentages less than 3% have been redacted</p>
<p>On Ramps</p>	<p>The following work roles are examples of possible roles an individual may perform prior to transitioning into the 801-Program Manager work role:</p> <ul style="list-style-type: none"> - 651-Enterprise Architect - 652-Security Architect - 752-Cyber Policy and Strategy Planner - 802-IT Project Manager - 803-Product Support Manager - 804-IT Investment / Portfolio Manager
<p>Off Ramps</p>	<p>The following work roles are examples of common transitions an individual may pursue after having performed the 801-Program 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:</p> <ul style="list-style-type: none"> - 611-Authorizing Official / Designated Representative - 751-Cyber Workforce Developer and Manager - 752-Cyber Policy and Strategy Planner - 804-IT Investment / Portfolio Manager - 805-IT Program Auditor - 901-Executive Cyber Leadership

1.2 CORE TASKS

The table below provides a list of tasks that represent the Core, or baseline, expectations for performance in the 801-Program Manager work role, as well as additional tasks that those in this role may be expected to perform.

Table 2. 801-Program Manager Core Tasks

Task ID	Task Description	Core or Additional
T0066	Develop and maintain strategic plans.	Core
T0174	Perform needs analysis to determine opportunities for new and improved business process solutions.	Core
T0199	Provide enterprise cybersecurity and supply chain risk management guidance for development of the Continuity of Operations Plans.	Core
T0277	Ensure that all acquisitions, procurements, and outsourcing efforts address information security requirements consistent with organization goals.	Core
T0340	Act as a primary stakeholder in the underlying information technology (IT) operational processes and functions that support the service, provide direction and monitor all significant activities so the service is delivered successfully.	Core
T0379	Manage the internal relationship with information technology (IT) process owners supporting the service, assisting with the definition and agreement of Operating Level Agreements (OLAs).	Core
T0407	Participate in the acquisition process as necessary.	Core
T0493	Lead and oversee budget, staffing, and contracting.	Core
T0072	Develop methods to monitor and measure risk, compliance, and assurance efforts.	Additional
T0220	Resolve conflicts in laws, regulations, policies, standards, or procedures.	Additional
T0223	Review or conduct audits of information technology (IT) programs and projects.	Additional
T0256	Evaluate the effectiveness of procurement function in addressing information security requirements and supply chain risks through procurement activities and recommend improvements.	Additional
T0273	Develop and document supply chain risks for critical system elements, as appropriate.	Additional
T0302	Develop contract language to ensure supply chain, system, network, and operational security are met.	Additional
T0354	Coordinate and manage the overall service provided to a customer end-to-end.	Additional
T0377	Gather feedback on customer satisfaction and internal service performance to foster continual improvement.	Additional
T0412	Conduct import/export reviews for acquiring systems and software.	Additional
T0414	Develop supply chain, system, network, performance, and cybersecurity requirements.	Additional
T0415	Ensure that supply chain, system, network, performance, and cybersecurity requirements are included in contract language and delivered.	Additional
T0481	Identify and address cyber workforce planning and management issues (e.g. recruitment, retention, and training).	Additional
T0551	Draft and publish supply chain security and risk management documents.	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 801-Program Manager work role, as well as additional KSAs that those in this role may be expected to demonstrate.

Table 3. 801-Program Manager Core KSAs

KSA ID	Description	Competency	Importance to Work Role
K0004	Knowledge of cybersecurity 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 national and international laws, regulations, policies, and ethics as they relate to cybersecurity.	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
K0006	Knowledge of specific operational impacts of cybersecurity lapses.	Vulnerabilities Assessment	Foundational to All Work Roles
K0257	Knowledge of information technology (IT) acquisition/procurement requirements.	Contracting/Procurement	Core
K0270	Knowledge of the acquisition/procurement life cycle process.	Contracting/Procurement	Core
K0101	Knowledge of the organization's enterprise information technology (IT) goals and objectives.	Enterprise Architecture	Core
K0200	Knowledge of service management concepts for networks and related standards (e.g., Information Technology Infrastructure Library, current version [ITIL]).	Enterprise Architecture	Core
K0146	Knowledge of the organization's core business/mission processes.	Organizational Awareness	Core
K0072	Knowledge of resource management principles and techniques.	Project Management	Core
K0165	Knowledge of risk threat assessment.	Risk Management	Core
K0165	Knowledge of risk threat assessment.	Risk Management	Core
K0235	Knowledge of how to leverage government research and development centers, think tanks, academic research, and industry systems.	Strategic Planning	Core
A0039	Ability to oversee the development and update of the lifecycle cost estimate.	Third Party Oversight/	Core

KSA ID	Description	Competency	Importance to Work Role
		Acquisition Management	
A0056	Ability to ensure security practices are followed throughout the acquisition process.	Contracting/Procurement	Additional
K0126	Knowledge of Supply Chain Risk Management Practices (NIST SP 800-161).	Contracting/Procurement	Additional
K0047	Knowledge of information technology (IT) architectural concepts and frameworks.	Enterprise Architecture	Additional
K0120	Knowledge of how information needs and collection requirements are translated, tracked, and prioritized across the extended enterprise.	Information Management	Additional
S0372	Skill to translate, track, and prioritize information needs and intelligence collection requirements across the extended enterprise.	Information Management	Additional
S0038	Skill in identifying measures or indicators of system performance and the actions needed to improve or correct performance, relative to the goals of the system.	Information Technology Assessment	Additional
K0194	Knowledge of Cloud-based knowledge management technologies and concepts related to security, governance, procurement, and administration.	Knowledge Management	Additional
K0196	Knowledge of Import/Export Regulations related to cryptography and other security technologies.	Legal, Government, and Jurisprudence	Additional
K0198	Knowledge of organizational process improvement concepts and process maturity models (e.g., Capability Maturity Model Integration (CMMI) for Development, CMMI for Services, and CMMI for Acquisitions).	Process Control	Additional
A0009	Ability to apply supply chain risk management standards.	Risk Management	Additional
K0048	Knowledge of Risk Management Framework (RMF) requirements.	Risk Management	Additional
K0154	Knowledge of supply chain risk management standards, processes, and practices.	Risk Management	Additional
K0169	Knowledge of information technology (IT) supply chain security and risk management policies, requirements, and procedures.	Risk Management	Additional
K0090	Knowledge of system life cycle management principles, including software security and usability.	Systems Integration	Additional
A0045	Ability to evaluate/ensure the trustworthiness of the supplier and/or product.	Third Party Oversight/Acquisition Management	Additional

KSA ID	Description	Competency	Importance to Work Role
K0148	Knowledge of import/export control regulations and responsible agencies for the purposes of reducing supply chain risk.	Third Party Oversight/Acquisition Management	Additional
K0164	Knowledge of functionality, quality, and security requirements and how these will apply to specific items of supply (i.e., elements and processes).	Third Party Oversight/Acquisition Management	Additional

1.4 CORE COMPETENCIES

The table below is a compilation of competencies aligned to the 801-Program Manager work role, and their associated importance. Listed competencies are collections of three or more similar Knowledge, Skills, or Abilities aligned to the Work Role. *These competencies originate from the [NICE Framework Competency Pivot Tool](#).*

Table 4. 801-Program Manager Core Competencies

Technical Competency	Comp. ID	Definition	Work Role Related KSAs	Importance
Risk Management	C044	This area contains KSAs that relate to the methods and tools used for risk assessment and mitigation of risk.	<ul style="list-style-type: none"> Knowledge of risk management processes (e.g., methods for assessing and mitigating risk). [K0002] Knowledge of supply chain risk management standards, processes, and practices. [K0154] Knowledge of risk/threat assessment. [K0165] Knowledge of information technology (IT) supply chain security and supply chain risk management policies, requirements, and procedures. [K0169] Ability to apply supply chain risk management standards. [A0009] Knowledge of Risk Management Framework (RMF) requirements. [K0048] 	Core
Contracting/ Procurement	C010	This area contains KSAs that relate to the various types of contracts, techniques for contracting or procurement, and contract negotiation and administration.	<ul style="list-style-type: none"> Knowledge of the acquisition/procurement life cycle process. [K0270] Knowledge of Supply Chain Risk Management Practices (NIST SP 800-161). [K0126] Ability to ensure security practices are followed throughout the acquisition process. [A0056] Knowledge of information technology (IT) acquisition/procurement requirements. [K0257] 	Core
Enterprise Architecture	C018	This area contains KSAs that relate to the principles, concepts, and methods of enterprise architecture to align information technology (IT) strategy, plans, and systems with the mission, goals, structure, and processes of the organization.	<ul style="list-style-type: none"> Knowledge of information technology (IT) architectural concepts and frameworks. [K0047] Knowledge of the organization's enterprise information technology (IT) goals and objectives. [K0101] Knowledge of service management concepts for networks and related standards (e.g., Information Technology Infrastructure Library, current version [ITIL]). [K0200] 	Core
Third Party Oversight/ Acquisition Management	C056	This area contains KSAs that relate to the process of analyzing and controlling risks presented to your company, data, operations and finances by parties other than your own company.	<ul style="list-style-type: none"> Knowledge of import/export control regulations and responsible agencies for the purposes of reducing supply chain risk. [K0148] Knowledge of functionality, quality, and security requirements and how these will apply to specific items of supply (i.e., elements and processes). [K0164] Ability to evaluate/ensure the trustworthiness of the supplier and/or product. [A0045] Ability to oversee the development and update of the life cycle cost estimate. [A0039] 	Core

1.5 SUGGESTED QUALIFICATIONS / CAPABILITY INDICATORS

Table 5. 801-Program Manager Suggested Qualifications / Capability Indicators

For indicators of capability for the 801-Program Manager work role, please see [Draft NISTR 8193 - National Initiative for Cybersecurity Education \(NICE\) Framework Work Role Capability Indicators](#).

Section to be populated with updated DoD-8140 Qualification Matrix for 801-Program Manager.

2 APPENDIX: 801-PROGRAM 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 Role
Entry	<i>Example behavioral indicator / task permutation for performing this task at an Entry skills proficiency level.</i>	
Intermediate	<i>Example behavioral indicator / task permutation for performing this task at an Intermediate skills proficiency level.</i>	
Advanced	<i>Example behavioral indicator / task permutation for performing this task at an Advanced skills proficiency level.</i>	

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.

2.2 801-PROGRAM MANAGER TASK ANALYSIS AND KSA MAPPING

Table 8. T0066 Task Analysis

Proficiency	Task Statement	Importance
As Written within Framework	Develop and maintain strategic plans.	Core
<i>Entry</i>	<i>Develop and maintain a strategic plan for a single service/product/initiative etc.</i>	
<i>Intermediate</i>	<i>Develop and maintain a strategic plan for multiple services/products/initiatives etc.</i>	
<i>Advanced</i>	<i>Develop and maintain a strategic plan for multiple services that informs the enterprise strategic plan.</i>	

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
K0003	Knowledge of laws, regulations, policies, and ethics as they relate to cybersecurity and privacy.	Legal, Government, and Jurisprudence
K0146	Knowledge of the organization's core business/mission processes.	Organizational Awareness
K0072	Knowledge of resource management principles and techniques.	Project Management

Table 10. T0174 Task Analysis

Proficiency	Task Statement	Importance
As Written within Framework	Perform needs analysis to determine opportunities for new and improved business process solutions.	Core
Entry	<i>Gather and provide information to perform needs analysis to determine opportunities for new and improved business process solutions.</i>	
Intermediate	<i>Apply basic understanding of needs analysis to determine opportunities for new and improved business process solutions.</i>	
Advanced	<i>Evaluate needs analysis to determine opportunities for new and improved business process solutions.</i>	

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
K0200	Knowledge of service management concepts for networks and related standards (e.g., Information Technology Infrastructure Library, current version [ITIL]).	Enterprise Architecture
K0120	Knowledge of how information needs and collection requirements are translated, tracked, and prioritized across the extended enterprise.	Information Management
S0372	Skill to translate, track, and prioritize information needs and intelligence collection requirements across the extended enterprise.	Information Management
K0004	Knowledge of cybersecurity and privacy principles.	Information Systems/Network Security
S0038	Skill in identifying measures or indicators of system performance and the actions needed to improve or correct performance, relative to the goals of the system.	Information Technology Assessment
K0001	Knowledge of computer networking concepts and protocols, and network security methodologies.	Infrastructure Design
K0194	Knowledge of Cloud-based knowledge management technologies and concepts related to security, governance, procurement, and administration.	Knowledge Management
K0146	Knowledge of the organization's core business/mission processes.	Organizational Awareness
K0198	Knowledge of organizational process improvement concepts and process maturity models (e.g., Capability Maturity Model Integration (CMMI) for Development, CMMI for Services, and CMMI for Acquisitions).	Process Control
K0165	Knowledge of risk/threat assessment.	Risk Management

KSA ID	Description	Competency
K0235	Knowledge of how to leverage research and development centers, think tanks, academic research, and industry systems.	Strategic Planning
K0005	Knowledge of cyber threats and vulnerabilities.	Vulnerabilities Assessment
K0006	Knowledge of specific operational impacts of cybersecurity lapses.	Vulnerabilities Assessment

Table 12. T0199 Task Analysis

Proficiency	Task Statement	Importance
As Written within Framework	Provide enterprise cybersecurity and supply chain risk management guidance for development of the Continuity of Operations Plans.	Core
Entry	<i>Reference enterprise cybersecurity and supply chain risk management guidance for development of the Continuity of Operations Plans.</i>	
Intermediate	<i>Apply enterprise cybersecurity and supply chain risk management guidance for development of the Continuity of Operations Plans.</i>	
Advanced	<i>Provide enterprise cybersecurity and supply chain risk management guidance for development of the Continuity of Operations Plans.</i>	

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

KSA ID	Description	Competency
K0126	Knowledge of Supply Chain Risk Management Practices (NIST SP 800-161)	Contracting/Procurement
A0056	Ability to ensure security practices are followed throughout the acquisition process.	Contracting/Procurement
K0047	Knowledge of information technology (IT) architectural concepts and frameworks.	Enterprise Architecture
K0101	Knowledge of the organization's enterprise information technology (IT) goals and objectives.	Enterprise Architecture
K0004	Knowledge of cybersecurity and privacy principles.	Information Systems/Network Security
K0001	Knowledge of computer networking concepts and protocols, and network security methodologies.	Infrastructure Design
K0194	Knowledge of Cloud-based knowledge management technologies and concepts related to security, governance, procurement, and administration.	Knowledge Management
K0003	Knowledge of laws, regulations, policies, and ethics as they relate to cybersecurity and privacy.	Legal, Government, and Jurisprudence
K0146	Knowledge of the organization's core business/mission processes.	Organizational Awareness
K0002	Knowledge of risk management processes (e.g., methods for assessing and mitigating risk).	Risk Management
K0048	Knowledge of Risk Management Framework (RMF) requirements.	Risk Management
K0154	Knowledge of supply chain risk management standards, processes, and practices.	Risk Management
K0165	Knowledge of risk/threat assessment.	Risk Management
K0169	Knowledge of information technology (IT) supply chain security and supply chain risk management policies, requirements, and procedures.	Risk Management
A0009	Ability to apply supply chain risk management standards.	Risk Management

KSA ID	Description	Competency
K0090	Knowledge of system life cycle management principles, including software security and usability.	Systems Integration
K0164	Knowledge of functionality, quality, and security requirements and how these will apply to specific items of supply (i.e., elements and processes).	Third Party Oversight/Acquisition Management
K0005	Knowledge of cyber threats and vulnerabilities.	Vulnerabilities Assessment
K0006	Knowledge of specific operational impacts of cybersecurity lapses.	Vulnerabilities Assessment

Table 14. T0277 Task Analysis

Proficiency	Task Statement	Importance
As Written within Framework	Ensure that all acquisitions, procurements, and outsourcing efforts address information security requirements consistent with organization goals.	Core
Entry	<i>Consult with supervisor to ensure that all acquisitions, procurements, and outsourcing efforts address information security requirements consistent with organization goals.</i>	
Intermediate	<i>Interact with others to ensure that all acquisitions, procurements, and outsourcing efforts address information security requirements consistent with organization goals.</i>	
Advanced	<i>Develop plans to ensure that all acquisitions, procurements, and outsourcing efforts address information security requirements consistent with organization goals.</i>	

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

KSA ID	Description	Competency
K0126	Knowledge of Supply Chain Risk Management Practices (NIST SP 800-161)	Contracting/Procurement
K0257	Knowledge of information technology (IT) acquisition/procurement requirements.	Contracting/Procurement
K0148	Knowledge of import/export control regulations and responsible agencies for the purposes of reducing supply chain risk.	Third Party Oversight/Acquisition Management
A0045	Ability to evaluate/ensure the trustworthiness of the supplier and/or product.	Third Party Oversight/Acquisition Management

Table 16. T0340 Task Analysis

Proficiency	Task Statement	Importance
As Written within Framework	Act as the stakeholder in the underlying information (IT) operational processes and functions that support the service, provide direction and monitor all significant activities so the service is delivered successfully and meets the need of the program.	Core
Entry	<i>Act as a stakeholder in the information (IT) operational processes and functions area that support a single service, provide direction and monitor all significant activities so the service is delivered successfully.</i>	
Intermediate	<i>Act as the stakeholder in the underlying information (IT) operational processes and functions that support multiple lines of service, provide direction and monitor all significant activities so the services are delivered successfully.</i>	
Advanced	<i>Act as the stakeholder for all underlying information (IT) operational processes and functions that support the enterprise, provide direction and monitor all significant activities so the services are delivered successfully.</i>	

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

KSA ID	Description	Competency
K0126	Knowledge of Supply Chain Risk Management Practices (NIST SP 800-161)	Contracting/Procurement
A0056	Ability to ensure security practices are followed throughout the acquisition process.	Contracting/Procurement
K0120	Knowledge of how information needs and collection requirements are translated, tracked, and prioritized across the extended enterprise.	Information Management
S0038	Skill in identifying measures or indicators of system performance and the actions needed to improve or correct performance, relative to the goals of the system.	Information Technology Assessment
K0146	Knowledge of the organization's core business/mission processes.	Organizational Awareness
K0090	Knowledge of system life cycle management principles, including software security and usability.	Systems Integration
A0045	Ability to evaluate/ensure the trustworthiness of the supplier and/or product.	Third Party Oversight/Acquisition Management

Table 18. T0379 Task Analysis

Proficiency	Task Statement	Importance
As Written within Framework	Manage the internal relationship with information technology (IT) process owners supporting the service, assisting with the definition of Operating Level Agreements (OLAs).	Core
Entry	<i>Assist with managing the internal relationship with information technology (IT) process owners supporting the service, assisting with the definition and agreement of Operating Level Agreements (OLAs).</i>	
Intermediate	<i>Manage routine internal relationship with information technology (IT) process owners supporting the service, assisting with the definition and agreement of Operating Level Agreements (OLAs).</i>	
Advanced	<i>Oversee others responsible for managing the internal relationship with information technology (IT) process owners supporting the service, assisting with the definition and agreement of Operating Level Agreements (OLAs).</i>	

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

KSA ID	Description	Competency
S0372	Skill to translate, track, and prioritize information needs and intelligence collection requirements across the extended enterprise.	Information Management
S0038	Skill in identifying measures or indicators of system performance and the actions needed to improve or correct performance, relative to the goals of the system.	Information Technology Assessment
K0090	Knowledge of system life cycle management principles, including software security and usability.	Systems Integration

Table 20. T0407 Task Analysis

Proficiency	Task Statement	Importance
As Written within Framework	Participate in the acquisition process as necessary.	Core
Entry	<i>Participates in the acquisition process as necessary.</i>	
Intermediate	<i>Manages the acquisition process</i>	
Advanced	<i>Oversee the acquisition process</i>	

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

KSA ID	Description	Competency
K0126	Knowledge of Supply Chain Risk Management Practices (NIST SP 800-161)	Contracting/Procurement
K0257	Knowledge of information technology (IT) acquisition/procurement requirements.	Contracting/Procurement
K0270	Knowledge of the acquisition/procurement life cycle process.	Contracting/Procurement
A0056	Ability to ensure security practices are followed throughout the acquisition process.	Contracting/Procurement
K0047	Knowledge of information technology (IT) architectural concepts and frameworks.	Enterprise Architecture
K0101	Knowledge of the organization's enterprise information technology (IT) goals and objectives.	Enterprise Architecture
K0001	Knowledge of computer networking concepts and protocols, and network security methodologies.	Infrastructure Design
K0194	Knowledge of Cloud-based knowledge management technologies and concepts related to security, governance, procurement, and administration.	Knowledge Management
K0146	Knowledge of the organization's core business/mission processes.	Organizational Awareness
K0198	Knowledge of organizational process improvement concepts and process maturity models (e.g., Capability Maturity Model Integration (CMMI) for Development, CMMI for Services, and CMMI for Acquisitions).	Process Control
K0072	Knowledge of resource management principles and techniques.	Project Management
K0002	Knowledge of risk management processes (e.g., methods for assessing and mitigating risk).	Risk Management
K0048	Knowledge of Risk Management Framework (RMF) requirements.	Risk Management
K0154	Knowledge of supply chain risk management standards, processes, and practices.	Risk Management
K0165	Knowledge of risk/threat assessment.	Risk Management

KSA ID	Description	Competency
K0169	Knowledge of information technology (IT) supply chain security and supply chain risk management policies, requirements, and procedures.	Risk Management
A0009	Ability to apply supply chain risk management standards.	Risk Management
K0090	Knowledge of system life cycle management principles, including software security and usability.	Systems Integration
K0148	Knowledge of import/export control regulations and responsible agencies for the purposes of reducing supply chain risk.	Third Party Oversight/Acquisition Management
K0164	Knowledge of functionality, quality, and security requirements and how these will apply to specific items of supply (i.e., elements and processes).	Third Party Oversight/Acquisition Management
A0039	Ability to oversee the development and update of the life cycle cost estimate.	Third Party Oversight/Acquisition Management
A0045	Ability to evaluate/ensure the trustworthiness of the supplier and/or product.	Third Party Oversight/Acquisition Management

Table 22. T0493 Task Analysis

Proficiency	Task Statement	Importance
As Written within Framework	Lead and oversee budget, staffing, and contracting.	Core
Entry	<i>With guidance, support efforts regarding budget, staffing, and contracting.</i>	
Intermediate	<i>Participate in efforts regarding budget, staffing, and contracting.</i>	
Advanced	<i>Oversee others responsible for budget, staffing, and contracting.</i>	

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

KSA ID	Description	Competency
K0126	Knowledge of Supply Chain Risk Management Practices (NIST SP 800-161)	Contracting/Procurement
K0257	Knowledge of information technology (IT) acquisition/procurement requirements.	Contracting/Procurement
K0270	Knowledge of the acquisition/procurement life cycle process.	Contracting/Procurement
A0056	Ability to ensure security practices are followed throughout the acquisition process.	Contracting/Procurement
K0101	Knowledge of the organization's enterprise information technology (IT) goals and objectives.	Enterprise Architecture
K0001	Knowledge of computer networking concepts and protocols, and network security methodologies.	Infrastructure Design
K0194	Knowledge of Cloud-based knowledge management technologies and concepts related to security, governance, procurement, and administration.	Knowledge Management
K0003	Knowledge of laws, regulations, policies, and ethics as they relate to cybersecurity and privacy.	Legal, Government, and Jurisprudence
K0146	Knowledge of the organization's core business/mission processes.	Organizational Awareness
K0072	Knowledge of resource management principles and techniques.	Project Management
K0154	Knowledge of supply chain risk management standards, processes, and practices.	Risk Management
K0165	Knowledge of risk/threat assessment.	Risk Management
A0009	Ability to apply supply chain risk management standards.	Risk Management