ENCORE II LABOR CATEGORIES

1. Task Order Project Manager
Description: Serves as the project manager for a large, complex task order (or a group of task orders affecting the same common/standard/migration system) and shall assist the Program Manager in working with the Government Contracting Officer (KO), the task order-level TMs, Government management personnel and customer agency representatives. Under the guidance of the Program Manager, responsible for the overall management of the specific task order(s) and insuring that the technical solutions and schedules in the task order are implemented in a timely manner. Performs enterprise wide horizontal integration planning and interfaces to other functional systems.

2. Quality Assurance Manager
Description: Establishes and maintains a process for evaluating software and associated documentation. Determines the resources required for quality control. Maintains the level of quality throughout the software life cycle. Conducts formal and informal reviews at pre-determined points throughout the development life cycle. Provides daily supervision and direction to support staff.

3. Quality Assurance Analyst
Description: Provides technical and administrative direction for personnel performing software development tasks, including the review of work products for correctness, adherence to the design concept and to user standards, review of program documentation to assure Government standards/requirements are adhered to, and for progress in accordance with schedules. Coordinates with the Project Manager and/or Quality Assurance Manager to ensure problem solution and user satisfaction. Makes recommendations, if needed, for approval of major systems installations. Prepares milestone status reports and deliveries/presentations on the system concept to colleagues, subordinates and end user representatives.

4. Project Control Specialist
Description: Directs all financial management and administrative activities, such as budgeting, manpower and resource planning, and financial reporting. Performs complex evaluations of existing procedures, processes, techniques, models, and/or systems related to management problems or contractual issues which would require a report and recommend solutions. Develops work breakdown structures, prepare charts, tables, graphs and diagrams to assist in analyzing problems. Provides daily supervision and direction to staff.

5. Program Administration Specialist
Description: Assists in the preparation of management plans and reports. Coordinates schedules to facilitate completion of proposals, contract deliverables, task order review, briefings/ presentations and IPR preparation. Performs analysis, development and review of program administrative operating procedures.

6. Senior Functional Analyst
Description: Analyze user needs to determine functional and cross-functional requirements. Performs functional allocation to identify required tasks and their interrelationships. Identifies resources required for each task. Provides daily supervision and direction to support staff.

7. Functional Analyst
Description: Analyze user needs to determine functional and cross-functional requirements. Performs functional allocation to identify required tasks and their interrelationships. Identifies resources required for each task.

8. Principal Systems Architect
Description: Establishes system information requirements using analysis of the information engineer(s) in the development of enterprise-wide or large-scale information systems. Determines and identifies high level functional and technical requirements based on interactions with the user community and knowledge of the enterprise architecture. Designs architecture to include the software, hardware and communications to support the total requirements as well as provide for present and future cross-functional requirements and interfaces. Identifies, assesses, and presents options for meeting the functional and technical requirements including hardware and software updates or upgrades. Responsible for developing high level system design diagrams. Ensures these systems are compatible and in compliance with the standards for open systems architectures, the Open Systems Interconnection (OSI) and International Standards Organization (ISO) reference models, and profiles of standards - such as Institute of Electrical and Electronic Engineers (IEEE) Open Systems Environment (OSE) reference model - as they apply to the implementation and specification of Information Management (IM) solution of the application platform, across the application program interface (API), and the external environment/software application. Ensures that the common operating environment is compliant. Evaluates analytically and systematically problems of work flows, organization and planning and develops appropriate corrective action. Provides daily supervision and direction to staff.

9. Senior Systems Architect
Description: Designs architecture to include the software, hardware, and communications to support the total requirements as well as provide for present and future cross-functional requirements and interfaces. Identifies, assesses, and presents options for meeting the functional and technical requirements including hardware and software updates or upgrades. Responsible for developing high level system design diagrams. Ensures these systems are compatible and in compliance with the standards for open systems architectures, the Open Systems Interconnection (OSI) and International Standards Organization (ISO) reference models, and profiles of standards - such as Institute of Electrical and Electronic Engineers (IEEE) Open Systems Environment (OSE) reference model - as they apply to the implementation and specification of Information Management (IM) solution of the application platform, across the application program interface (API), and the external environment/software application. Ensures that the common operating environment is compliant. Evaluates analytically and systematically problems of work flows, organization and planning and develops appropriate corrective action.

10 Principal Information Engineer
Description: Applies an enterprise-wide set of disciplines for the planning, analysis, design and construction of information systems on an enterprise-wide basis or across a major sector of the enterprise. Develops analytical and computational techniques and methodology for problem solutions. Utilizes performance analysis to predict performance trends, and identify unique and systemic performance anomalies. Provides specialized knowledge of systems operations, risk management principals, and leading edge industry technologies to develop enterprise level migration and consolidation plans that result in minimum risk, optimum performance solutions. Interfaces with all levels of IT customer and operations staff. Performs process and data modeling in support of the planning and analysis efforts using both manual and automated tools; such as Integrated Computer-Aided Software Engineering (I-CASE) tools. Applies reverse engineering and re-engineering disciplines to develop migration strategic and planning documents. Has experience with such methodologies as IDEF 0 process modeling and IDEF 1x data modeling. Provides technical guidance in software engineering techniques and system design and technology issues relating to system migration and consolidation.

11. Information Engineer (Intermediate)
Description: Under broad direction, designs and implements data processing systems which meet customer business needs, leads and participates in system design teams. Plans, schedules and coordinates project implementations and ensures that customer requirements are met. Assists others on technical or industry-related issues. Anticipates customer problems and recommends solutions. Applies business process improvement practices to reengineer methodologies/principles and business process modernization projects. Applies, as appropriate, activity and data modeling, transaction flow analysis, internal control and risk analysis and modern business methods and performance measurement

techniques. Assist in establishing standards for information systems procedures. Develops and applies organization-wide information models for use in designing and building integrated, shared software and database management systems. Constructs sound, logical business improvement opportunities consistent with corporate Information Management guiding principles, cost savings, and open system architecture objectives. Provides daily supervision and direction to staff.

12. Information Engineer (Associate)
Description: Under general direction, applies specialization within a line of business to provide programming and technical leadership in support to provide programming and technical leadership in support of customer needs, develops, codes, tests and implements computer programs and subsystems utilizing multiple programming languages. Leads subsystem design and participates in system design projects, assists on coding, testing, implementation, and documentation projects. Participates in implementations, major system upgrades or enhancements, and conversions. Interfaces with customers to define system requirements and priorities. Analyzes and assists others in resolving production problems, supports business studies, costing and feasibility studies and proposal preparation efforts.

13. Computer Systems Analyst (Lead)
Description: Provides technical and administrative direction for personnel performing software development tasks, including the review of work products for correctness, adherence to the design concept and to user standards, and for progress in accordance with schedules. Coordinates with the Project and/or Program Manager to ensure problem solution and user satisfaction. Makes recommendations, if needed, for approval of major systems installations. Prepares milestone status reports and deliveries/presentations on the system concept to colleagues, subordinates, and end user representatives. Provides daily supervision and direction to support staff.

14. Computer Systems Analyst (Intermediate)
Description: Analyzes and develops computer software possessing a wide range of capabilities, including numerous engineering, business and records management functions. Develops plans for automated information systems from project inception to conclusion. Analyzes user interfaces, maintain hardware and software performance tuning, analyze workload and computer usage, maintain interfaces with outside systems, analyze downtimes, analyze proposed system modifications, upgrades and new COTS. Analyzes the problem and the information to be processed. Defines the problem, and develops system requirements and program specifications, from which programmers prepare detailed flow charts, programs, and tests. Coordinates closely with programmers to ensure proper implementation of program and system specifications. Develops, in conjunction with functional users, system alternative solutions.

15. Computer Systems Analyst (Associate)
Description: Analyzes information requirements. Evaluates analytically and systematically problems of workflows, organization, and planning and assists Senior Computer Systems Analyst and Computer Systems Analyst develop appropriate corrective action. Help develop plans for automated information systems from project inception to conclusion. Defines the problem, and develops system requirements and program specifications, from which programmers prepare detailed flow charts, programs and tests. Under the supervision of a Senior Computer Systems Analyst or a Computer Systems Analyst coordinates closely with programmers to ensure proper implementation of program and system specifications. Develops, in conjunction with functional users, system alternative solutions.

16. Senior Applications Engineer
Description: Analyzes and studies complex system requirements. Designs software tools and subsystems to support software reuse and domain analyses and manages their implementation. Manages software development and support using formal specifications, data flow diagrams, other accepted design techniques and Computer-Aided Software Engineering (CASE) tools. Estimates software development costs and schedule. Reviews existing programs and assists in making refinements, reducing operating time and improving current techniques. Supervises software configuration management.

17. Applications Engineer
Description: Analyzes functional business applications and design specifications for functional activities. Develops block diagrams and logic flow charts. Translates detailed design into computer software. Tests, debugs and refines the computer software to produce the required product. Prepares required documentation, including both program-level and user-level documentation. Enhances software to reduce operating time or improve efficiency. Provides technical direction to programmers to ensure program deadlines are met.

18. Senior Applications Programmer
Description: Analyzes functional business applications and design specifications for functional activities. Develops block diagrams and logic flow charts. Translates detailed design into computer software. Tests, debugs and refines the computer software to produce the required product. Prepares required documentation, including both program-level and user-level documentation. Enhances software to reduce operating time or improve efficiency. Provides technical direction to programmers to ensure program deadlines are met.

19. Applications Programmer
Description: Participates in the design of software tools and subsystems to support reuse and domain analysis. Assists Applications Engineer and Applications Programmer to interpret software requirements and design specifications to code and integrate and test software components.

20. Student Applications Programmer
Description: Assists with the analysis of information requirements. Aids in the evaluation of problems with workflow, organization, and planning and helps develop appropriate corrective action.

21. Senior Database Management Specialist
Description: Manages the development of database projects. Plans and budgets staff and data base resources. When necessary, reallocates resources to maximize benefits. Prepares and delivers presentations on database management systems (DBMS) concepts. Provides daily supervision and direction to support staff.

22. Database Administrator
Description: Under general direction, implements, monitors, and reorganizes databases, codes, tests, implements, and maintains database architectures. Executes utility requirements such as reorganization, back-up and recovery. Analyzes and resolves database system production problems. Analyzes user requirements and statistics, and participates in database design and performance evaluation reviews. Advises systems engineers on database coding issues. Prepares system documentation. May be involved in the data modeling process.

23. Database Management Specialist
Description: Provides highly technical expertise in the use of DBMS. Evaluates and recommends available DBMS products to support validated user requirements. Defines file organization, indexing methods and security procedures for specific user applications.

24. Data Entry Clerk
Description: Performs data entry via on-line data terminal, key-to-tape, key-to-disk, or similar device. Verifies data entered, where applicable.

25. Operations Manager
Description: Manages computer operations. Ensures production schedules are met. Ensures computer system resources are used effectively. Coordinates the resolution of production-related problems. Ensures proper relationships are established between customers, teaming partners and vendors to facilitate the delivery of information technology services. Provides users with computer output. Supervises staff operations.

26. Senior Systems Administrator
Description: Organizes and directs the configuration and operation of information management systems. Responsible for directing the work of other system administrators to provide the day-to-day system administration to include system and resource optimization, and user assistance. Conducts capacity and performance analysis, and provides system configuration change and upgrade recommendations. Increases system administrator efficiency and accuracy via the use of automated tools and scripts, develops system administrator procedures, and conducts system administrator training and skills assessment.

27. Systems Administrator
Description: Supervises and manages the daily activities of configuration and operation of business systems which may be mainframe, mini, or client/server based. Optimizes system operation and resource utilization, and performs system capacity analysis and planning. Provides assistance to users in accessing and using business systems.

28. Systems Operator
Description: Monitors and supports computer processing. Coordinates input, output and file media. Distributes output and controls computer operation which may be mainframe, mini, or client/server based.

29. Senior Training Specialist
Description: Conducts the research necessary to develop and revise training courses and prepares appropriate training catalogs. Develops all instructor materials (course outline, background material, and training aids). Develops all student materials (course manuals, workbooks, handouts, completion certificates, and course critique forms). Trains personnel by conducting formal classroom courses, workshops, seminars and/or computer based/computer aided training. Provides daily supervision and direction to staff.

30. Training Specialist
Description: Conducts the research necessary to develop and revise training courses. Develops and revises these courses and prepares appropriate training catalogs. Prepares instructor materials (course outline, background material, and training aids). Prepares student materials (course manuals, workbooks, handouts, completion certificates, and course critique forms). Trains personnel by conducting formal classroom courses, workshops and seminars.

31. Instructional Systems Designer (Lead)
Description: Analyzes, designs, develops, delivers and evaluates training and support materials. Conducts needs analysis of groups, processes, jobs, tools, or products to identify performance requirements of training and curricula. Determines appropriate design to ensure that training products are instructionally and educationally sound and develops training materials based on results of content research conducted with subject matter experts and customers. Selects and provides guidance on use of various types of media to be integrated into training products. Evaluates training products and services to measure effectiveness in achieving desired results. Delivers training courses supporting specific customer or corporate business needs and provides guidance to other instructors. Leads the application of new development and delivery technologies and techniques by piloting the new programs, developing supporting instructional tools, and coaching other users. Leads instructor certification efforts. May provide tutoring and extensive supplementary training to individual participants based on need/request."

32. Instructional Systems Designer (Intermediate)
Description: Under minimal direction, conducts needs analysis of groups, processes, or products to identify performance requirements of training and curricula to insure effectiveness in achieving desired training results and meet mission objectives. Analyzes, delivers, and evaluates training and support materials. Assures delivery of training courses supporting specific customer needs. Enhances customer satisfaction and loyalty by assisting in the definition, implementation, rollout, marketing, and continual evaluation of the program. Provides consulting services to customer on all program aspects to include program development, organizational readiness, and marketing strategies. Manage

implementation/deployment projects for new and upgraded products and services. Coordinates interaction between government and contractor to support and enhance client program initiatives, quality assurance, and problem resolution. Contributes directly to the building of customer goodwill, satisfaction, and loyalty. Facilitates defining/enhancing the client's business needs, goals, success criteria, and program strategy. Demonstrates excellent teamwork and strategic partnership skills and abilities."

33. Help Desk Manager
Description: Provides daily supervision and direction to staff who are responsible for phone and in-person support to users in the areas of e-mail, directories, standard Windows desktop applications and applications developed or deployed under this contract. These personnel serve as the first point of contact for troubleshooting hardware/software PC and printer problems.

34. Help Desk Specialist
Description: Provides phone and in-person support to users in the areas of e-mail, directories, standard Windows desktop applications, and applications developed under this contract or predecessors. Serves as the initial point of contact for troubleshooting hardware/software PC and printer problems.

35. Hardware/Software Specialist
Description: Reviews computer systems in terms of machine capabilities and man-machine interface. Prepares reports and studies concerning hardware and/or software. Keeps abreast of emerging operational support technologies and industry trends. Prepares functional requirements and specifications for hardware/software acquisitions. Monitors system performance, gathers data, and prepares management reports. Ensures that problems have been properly identified and solutions will satisfy the user's requirements.

36. Senior Hardware/Software Installation Technician
Description: Monitors, operates and maintains hardware, and software, for a computing platform. Organizes and directs hardware installations on site surveys. Assesses and documents current site network configuration and user requirements. Maintains disaster recovery procedures for hardware and resident software, and related network communications equipment. Designs and optimizes network topologies. Analyzes and develops new hardware requirements and prepares specifications for hardware acquisitions. Directs and leads preparation of engineering plans and site installation technical design packages. Develops hardware installation schedules. Mobilizes installation team. Directs and leads preparation of drawings documenting configuration changes at each site. Prepares site installation and test reports. Coordinates post installation operations and maintenance support. Performs system backup and recovery activities. Audits the hardware/software inventory to ensure integrity as well as licensing compliance. Updates and maintains site administration manual documentation. May provide user orientation on hardware and software operations.

37. Hardware/Software Installation Technician
Description: Conducts sites surveys; assesses and documents current site network configuration and user requirements. Designs and optimize network topologies. Analyzes existing requirements and prepares specifications for hardware/software acquisitions. Prepares engineering plans and site installation Technical Design Packages. Develops hardware/software installation schedules. Prepares drawings documenting configuration changes at each site. Prepares site installation and test reports. Configures computers, communications devices and peripheral equipment. Installs network hardware/software. Trains site personnel in proper use of hardware/software. Builds specialized interconnecting cables. Performs first line support for service interruptions such as printer routings, power outages, wiring problems, and malfunctioning servers. Escalates unresolved problems to expedite resolution.

38. Hardware Draftsman
Description: Develops engineering drawings using computer-based drawing packages (e.g., Aptitude, AutoCAD, etc.). Develops engineering drawings for site plans, electrical interconnects and mechanical plans for specialized hardware.

39. Senior Network Installation Technician
Description: Organizes and directs network installations on site surveys. Assesses and documents current site network configuration and user requirements. Designs and optimizes network topologies. Directs and leads preparation of engineering plans and site installation Technical Design Packages. Develops installation schedules. Mobilizes network installation team. Directs and leads preparation of drawings documenting configuration changes at each site. Prepares site installation and test reports. Coordinates post installation operations and maintenance support.

40. Network Installation Technician
Description: Conducts site surveys. Assesses and documents current site network configuration and user requirements. Designs and optimizes network topologies. Follows engineering plans and site installation Technical Design Packages. Develops installation schedules. Works with network installation team. Assists in the preparation of drawing and documenting configuration changes at each site. Prepares site installation and test reports.

41. Network Draftsman
Description: Develops engineering drawings using computer-based drawing packages (e.g., Aptitude, AutoCAD, etc.). Develops engineering drawings for site plans, network configuration and design.

42. Communications Network Manager
Description: Evaluates communication hardware and software, troubleshoots LAN/MAN/WAN and other network related problems, provides technical expertise for performance and configuration of networks. Performs general LAN/MAN/WAN administration, provides technical leadership in the integration and test of complex large-scale computer integrated networks. Schedules conversions and cut-overs. Oversees network control center. Supervises maintenance of systems. Coordinates with all responsible users and sites. Supervises staff.

43. Communications Specialist
Description: Analyzes network characteristics (e.g., traffic, connect time, transmission speeds, packet sizes and throughput) and recommends procurement, removals and modifications to network components. Designs and optimizes network topologies and site configurations. Plans installations, transitions and cut-overs of network components and capabilities. Coordinates requirements with users and suppliers.

44. Data Communications Manager
Description: Ensures that adequate and appropriate planning is provided for remote hardware and communications facilities to develop and implement methodologies for analysis, installation and support of distributed processing client/server systems. Provides coordination in the analysis, acquisition and installation of hardware, software and facilities. Manages the training and efforts of a staff engaged in systems and network planning, analysis and monitoring activities.

45. Voice Communications Manager
Description: Ensures that adequate and appropriate planning is provided for remote hardware and communications facilities to develop and implement methodologies for analysis, installation and support of voice communications systems. Provides coordination in the analysis, acquisition and installation of remote hardware and software. Interfaces with internal/external customers and vendors to determine system needs. Manages the training and efforts of a staff responsible for system and network planning and analysis activities. May include billing/charge-back responsibilities.

46. Principal Business Process Reengineering Specialist
Description: Applies process improvement and reengineering methodologies and principles to conduct process modernization projects. Responsible for effective transitioning of existing project teams and the facilitation of project teams in the accomplishment of project activities and objectives. Provides group facilitation, interviewing, training, and provides additional forms of knowledge transfer. Key coordinator

between multiple project teams to ensure enterprise-wide integration of reengineering efforts. Provides daily supervision and direction to Business Process Reengineering Specialist.

47. Senior Business Process Reengineering Specialist
Description: Applies process improvement and reengineering methodologies and principles to conduct process modernization projects. Duties include activity and data modeling, developing modern business methods, identifying best practices and creating and assessing performance measurements. Provides group facilitation, interviewing, training and provides additional forms of knowledge transfer. May be under the supervision and direction of a Principal Business Process Reengineering Specialist or may work independently.

48. Cost Analyst
Description: Performs Functional Economic Analysis (FEA) to evaluate the costs of alternative ways to accomplish functional objectives. The FEA states investment costs, benefits and risks as a net change to the functional baseline cost, the cost of doing business now and in the future. Ensures that cross-functional, security and other integration issues are addressed.

49. Data Standardization Specialist
Description: Provides technical support in the evaluation of prime object names, data elements and other objects. Evaluated proposed objects and their attributes. Ensures that proposed object definitions are clear, concise, technically correct and that they represent singular concepts. Ensures that the values of object attributes and domains are accurate and correct. Ensures that the proposed objects are consistent with data and process models.

50. Documentation Specialist
Description: Gathers, analyzes and composes technical information. Conducts research and ensures the use of proper technical terminology. Translates technical information into clear, readable documents to be used by technical and non-technical personnel.

51. Technical Writer/Editor
Description: Assists in collecting and organizing information required for preparation of user's manuals, training materials, installation guides, proposals, and reports. Edits functional descriptions, system specifications, user's manuals, special reports, or any other customer deliverables and documents.

52. Computer Security Systems Specialist (Lead)
Description: Analyzes and defines security requirements for Multilevel Security (MLS) issues. Designs, develops, engineers and implements solutions to MLS requirements. Responsible for the implementation and development of the MLS. Gathers and organizes technical information about an organization's mission goals and needs, existing security products, and ongoing programs in the MLS arena. Performs risk analyses which also includes risk assessment. Provides daily supervision and direction to staff. Provides technical support for secure software development and integration tasks, including reviewing work products for correctness and adhering to the design concept and to user standards. Knowledgeable of Security/Information Assurance (IA) products such as PKI, VPN, firewalls, and intrusion detection systems. Analyzes and recommends resolution of security/IA problems on the basis of knowledge of the major IA products and services, an understanding of their limitations, and knowledge of the IA disciplines. Provides daily supervision and direction to staff.

53. Computer Security Systems Specialist (Intermediate)
Description: Under general supervision, analyzes and defines security requirements for MLS issues. Designs, develops, engineers and implements solutions to MLS requirements. Gathers and organizes technical information about an organization's mission goals and needs, existing security products and ongoing programs in the MLS arena. Performs risk analyses, which also includes risk assessment. Provides technical support for secure software development and integration tasks, including reviewing work products for correctness and adhering to the design concept and to user standards. Knowledgeable of Security/IA products such as PKI, VPN, firewalls, and intrusion detection systems. Analyzes and

recommends resolution of security/IA problems on the basis of knowledge of the major IA products and services, an understanding of their limitations, and knowledge of the IA disciplines.

54. Computer Security System Specialist (Associate)
Description: Under specific direction, analyzes user needs and current security regulations and guidelines to determine IA functional requirements. Performs functional allocation to identify tasks that must be completed and interrelationships among those tasks. Identifies required resources. Analyzes and defines IA security requirements for MLS systems and non-MLS systems. Designs, develops, engineers, and implements solutions to MLS and non-MLS requirements. Gathers and organizes technical information about an organization's missions, goals, and requirements; existing security products; and ongoing IA programs.

55. Administrative Support and Graphics Specialist
Description: Directly supports Program Manager or Project Manager by maintaining personnel and other files; prepares correspondence, schedules and coordinates travel. Assists in the preparation of presentation graphics and supports the development of contract deliverables and reports by developing and updating graphic presentations to improve the quality and enhance the usability of these documents. Responsible for integrating the graphics generated with automated tools and the deliverable documents.

56. Electronic Meeting Technographer
Description: Supports the meeting facilitator or Data Modeler in preparing and conducting meetings, and in meeting follow-up activities. Manipulates on-line electronic meeting software, such as GroupSystems V, for Business Reengineering or Process Improvement sessions. Responsible for the cataloging, maintenance and distribution of customer session data files.

57. Senior Information Technology Expert
Description: Performs the following duties:

a. Reengineering. Serves as a Management Information System (MIS) manager. Designs, develops and manages implementation of risk assessment and business contingency planning framework, methodology and tools to ensure business continuity of operations across a large, multi-division, decentralized organization. Supports multi-language, multi-platform and multi-operating system operations and utilizes electronic commerce and Electronic Data Interchange (EDI) applications.

b. Emerging Technologies. Recognizes and recommends new or emerging technology or software to satisfy functional requirements and processes. Provides highly technical and/or specialized guidance concerning automation solutions to complex information processing problems related to the subject field. Provides customer support using enterprise solutions software to integrate business areas, consistent with today's technology in order to operate in an open systems environment and client service architectures.

c. Computer Engineering. Analyzes data processing requirements to plan EDP systems to provide system capabilities required for projected workloads. Plans layout and installation of new systems or modification of existing systems. May set up and control analog or hybrid computer systems to solve scientific and engineering problems. Knowledgeable in Oracle, Windows NT, network administration, project management and Unix and Cobol programming.

d. Internet Development/Integration. Develops applications that take advantage of Internet protocols and platforms. Internet developers extend beyond traditional software development disciplines to demonstrate advanced graphical design abilities, familiarity with new media formats, and solid understanding of Internet communications protocols and services. They deploy new applications that utilize Internet standards to enable wide access from the diverse client types found throughout the public Internet.

e. Networking. Integrates the following network infrastructure components:

* Routers
* Switches
* Routed Networks
* Frame Relay
* Static and Dynamic Routes Configuration
* Token Ring Topology
* Ethernet Topology
* CISCO
* 3COM
* Network Troubleshooting
* Network Polling
* Network Discovery

58. Software Systems Engineer (Lead)
Description: With minimum guidance provides top-level technical expertise, including performing in-depth and complex software systems programming and analysis. Designs architectures to include the software, hardware, and communications to support the total requirements as well as provide for present and future cross-functional requirements and interfaces. Ensures these systems are compatible and in compliance with the standards for open systems and DoD architectures. Determines and identifies high level functional and technical requirements based on interactions with the user community and knowledge of the enterprise architecture. Identifies, assesses, and presents options for meeting the functional and technical requirements including hardware and software updates or upgrades. Formulates and defines specifications for operating system applications or modifies and maintains existing applications using engineering releases and utilities from the manufacturer. Creates detailed design specifications for use by software development staff members. Interacts with project management to plan project schedules and technical direction. Develops software design documents and technology white papers. Instrumental in selection of development tools. Responsible for developing high level system design diagrams and for program design, coding, testing, debugging and documentation. Instructs, directs, and checks the work of other task personnel. Instructs, directs, and checks the work of other task personnel. Responsible for quality assurance review and the evaluation of existing and new software products.

59. Software Systems Engineer (Intermediate)
Description: Under minimal direction, provides specialized expertise within multiple systems, software disciplines, as well as general knowledge of related disciplines, applications implications, and customer areas. Responsible for performing in-depth analysis and technical support of systems software products, including complex problem resolution, design, development, testing, operational integration, and user support. Assists in the planning and conversion for new hardware/software products. Maintains currency, debugs and configures related software products. Provides operating systems planning and evaluation for performance analysis, capacity planning and hardware upgrades. Works from specifications to develop or modify operating systems applications. Assists with design, coding, benchmark testing, debugging and documentation of programs. Interfaces with other system support groups to resolve problems, setting standards and improving overall efficiency of the operating system. Designs, codes, tests and implements tools for operations automation. Works on most phases of software systems programming applications, and may require instruction and guidance in other phases.

60. Software Systems Engineer (Associate)
Description: Under specific direction, responsible for routine and basic system products. Maintains currency, debugs, and configures related software products. Interfaces with other system support groups to resolves problems. Designs, codes, test and submit input to the planning and conversion for new hardware/software products. Prepares product documentation. May interface with customers to gather information on system requirements or problems.

61. Web Architect
Description: Designs and builds web sites using a variety of graphics software applications, techniques, and tools. Designs and develops user interface features, site animation, and special effects elements. Contributes to the design group's efforts to enhance the look and feel of the organization's on-line offerings. Designs the website to support the organization's strategies and goals relative to external communications.

62. Web Designer
Description: Designs, develops, troubleshoots, debugs, and implements software code (such as HTML, CGI and Javascript) for components of the website. Works with graphic designers and other members of a project team to develop the site concept, interface design, and architecture of the website. Responsible for interface implementation. Requires strong navigation and site design instincts.

63. Senior Business Case Analyst
Description: Develops formulas for calculating existing and future costs, researches current financial indices, develops details of actual cost of IT system using standard quantitative analyses. Develops and documents assumptions. Prepares investment analysis reports.

64. Business Case Analyst
Description: Identifies costs for existing IT systems (maintenance, operations, etc). Identifies life cycle costs for proposed IT systems (development, operations, maintenance). Identifies cost savings/cost avoidance associated with retirement of old system or improved performance of new system. Provides briefings on analyses conducted.

65. Executive Information Technology Consultant
Description: Manages and implements large, complex information technology systems. Experienced in advising senior executives on effective utilization of information technology systems and reengineering to meet business objectives. Identify user requirements and describe services available or refer inquiries to other staff within installation. Provides technical support of a limited scope to users and assist them in defining and solving computing problems within well-defined areas of responsibility. Assists in preparing documentation of supported products for other staff members and users. Assists in preparing user training materials and conduct training sessions as assigned. Perform programming tasks of limited scope to assist users.

66. Senior Information Technology Consultant
Description: The senior IT consultant manages the project work as defined by the client contract. Leads medium to large complex projects and major phases of very large projects. The senior consultant also manages the fact-finding, analysis and development of hypothesis/conclusions, production of final reports and delivery of presentations. Responsible for ensuring that the project delivers to client expectations on time and to budget.

67. Information Technology Consultant
Description: Leads major portions of large or medium projects, and leads small projects autonomously. Gathers facts through research, interviewing, surveys, etc. analyzes the client's business, draws conclusions, prepares final reports and gives presentations. Uses in-depth consultative skills and business knowledge to practice business objectives and processes.

68. Associate Information Technology Consultant
Description: Significant accomplishment as an expert in large integrated systems. Experience with several ADP architectures and platforms in an integrated environment. Stays current with advances in information technology. Assists in the analysis of current and projected service maintenance personnel and facility requirements. Designs interfaces to allow incompatible equipment to function as a unified system.

69. Test Engineer (Lead)
Description: Subject matter expert providing testing expertise for support of user requirements of complex to highly complex software/hardware applications. Directs and/or participates in all phases of risk management assessments and software/hardware development with emphasis on analysis of user requirements, test design and test tools selection. Responsible for ensuring that the test design and documentation support all applicable client, agency or industry standards time lines and budgets. Responsible for ensuring that testing conclusions and recommendations are fully supported by test results, and project managers are fully informed of testing status and application deviations from documented user requirements.

70. Test Engineer (Intermediate)
Description: Performs analysis of documented user requirements and directs or assists in the design of test plans in support of user requirements for moderately complex to complex software/hardware applications. Reviews user application system requirements documentation; designs, defines and documents unit and application test plans; transforms test plans into test scripts and executes those scripts. May participate in all phases of risk management assessment and software/hardware development under the direction of a Senior Test Engineer. Responsible for ensuring proper execution of test scripts and documentation of test results in test logs or defect tracking systems. Responsible for ensuring that the test designs and documentation support all applicable client, agency or industry standards, time lines and budgets. Responsible for the development of test data to be used in performing the required tests. Responsible that testing conclusions and recommendations are fully supported by test results, and those project managers are fully informed or testing status and application deviations from documented user requirements. Responsible for/or assists in the analysis of test results, documents conclusions and makes recommendations as supported by such analysis.

71. Test Engineer (Associate)
Description: Performs formal system testing activities for a particular project or subset of a larger project under supervision of more experienced test personnel. May participate in support of user requirements for simple to moderately complex software/hardware applications under the direction of a Senior Test Engineer. Executes defined test cases and procedures as detailed in the test documentation. Assists with the collection of data and technical information used in the development of test documentation. Assists in the development of test data to be used in performing required tests. Responsible for documentation of test results in the proper logs and/or tracking systems. Participates in selected phases of risk management assessment and software/hardware development under the direction of more experienced personnel. May participate in the development of test scripts and is responsible for ensuring proper execution of those test scripts. Under the direction of more experienced personnel, may be responsible for ensuring that test designs and documentation supports selected client, agency or industry standards and time lines. Responsible for ensuring that testing conclusions and recommendations are supported by test results. Responsible for or assists in the analysis of test results and documents conclusions.

72. Configuration Management Specialist (Lead)
Description: Responsible for configuration management planning. Describes provisions for configuration identification, change control, configuration status accounting and configuration audits. Responsible for configuration planning. Identifies and maintains the original configuration of requirements documentation, design documentation, software and related documentation. Responsible for configuration change control. Regulates the change process so that only approved and validated changes are incorporated into product documents and related software. Responsible for configuration status accounting. Tracks all problems and changes in product documents and software and reports changes and current configuration. Responsible for configuration audits. Supports audits to verify that requirements of all baselines have been met by the as-built software. Supports software quality assurance process audits.

73. Configuration Management Specialist (Intermediate)
Description: Responsible for configuration management planning. Describes provisions for configuration identification, change control, configuration status accounting and configuration audits. Responsible for

configuration planning. Identifies and maintains the original configuration of requirements documentation, design documentation, software, and related documentation. Responsible for configuration change control. Regulates the change process so that only approved and validated changes are incorporated into product documents and related software. Responsible for configuration status accounting. Tracks all problems and changes in product documents and software and reports changes and current configuration. Responsible for configuration audits. Supports audits to verify that requirements of all baselines have been met by the as-built software. Supports software quality assurance process audits.

74. Configuration Management Specialist (Associate)
Description: Supports configuration management planning. Describes provisions for configuration identification, change control, configuration status accounting and configuration audits. Supports configuration planning. Identifies and maintains the original configuration of requirements documentation, design documentation, software, and related documentation. Responsible for configuration change control. Supports the change process so that only approved and validated changes are incorporated into product documents and related software. Responsible for configuration status accounting. Tracks all problems and changes in product documents and software and reports changes and current configuration. Responsible for configuration audits. Supports audits to verify that requirements of all baselines have been met by the as-built software. Supports the software quality assurance process audits.

75. Network Engineer (Lead)
Description: Establishes Network information requirements using analysis of the Network engineer(s) in the development of enterprise-wide or large-scale networking infrastructure (CAN, MAN, WAN). Designs architecture to include the software, hardware and communications to support the total requirements as well as provide for present and future cross-functional requirements and interfaces. Ensures these Network systems are compatible and in compliance with the standards for open systems architectures, the Open Systems Interconnection (OSI) and International Standards Organization (ISO) reference models and profiles of standards - such as Institute of Electrical and Electronic Engineers (IEEE) Open Systems Environment (OSE) reference model - as they apply to the implementation and specification of Information Management (IM) solution of the network layers, across the application program interface (API) and the external environment/software application. Ensures that the network/transport layers of the common operating environment are compliant. Evaluates analytically and systematically problems of work flows and network usage, organization and planning and develops appropriate corrective action. Provides daily supervision and direction to staff.

76. Network Engineer (Intermediate)
Description: Under broad direction, provides technical leadership in the planning, investigation, design, and implementation of physical and logical communications solutions having network-wide impact. Provides solutions that incorporate integration of digital encoding formats, line codes, and timing concepts across engineering disciplines and environments. Influences team members, the customer, and vendors to define, analyze, and provide solutions for the customer's voice, data, and image communications requirements. Prepares complex workprints and schematics to define and illustrate entire network structures and solutions. Identifies and recommends new design tools for use in communications projects. Evaluates projected corporate network usage and provides and implements media solutions. Participates in and influences marketing proposals and studies by providing costing models, reports, and technical solutions for network-wide projects. Identifies product modifications and influences vendors to incorporate these changes into their products. Plans, designs, and implements network managements systems to monitor, diagnose, control, and measure performance of multiple communication networks. Identifies, analyzes, and recommends new network administrative systems for entire networks to ensure accurate network inventory and timely implementation.

77. Network Engineer (Associate)
Description: Collects and implements Network information requirements using analysis in the development of enterprise-wide or large-scale networking infrastructure (CAN, MAN, WAN). Implements architecture to include the software, hardware and communications to support the total requirements as

well as provide for present and future cross-functional requirements and interfaces. Ensures these Network systems are compatible and in compliance with the standards for open systems architectures, the OSI and ISO reference models, and profiles of standards - such as IEEE OSE reference model - as they apply to the implementation and specification of IM solution of the network layers, across the API, and the external environment/software application. Ensures that the network/transport layers of the common operating environment are compliant. Evaluates problems in network usage, organization and planning and develops appropriate corrective action. Works with internal team, the customer, and vendors to define, analyze, and provide solutions for the customer's voice, data, and image communications requirements. Uses design tools to evaluate projected network usage and produce media, technical and cost solutions for multiple networks. Selects and configures hardware and software for multiple-site networks, plans, designs, and implements network management systems to monitor, diagnose, control, and measure performance of communications networks that impact multiple sites. Uses and recommends changes to network administration systems to ensure accurate network inventory and timely implementation.

78. Enterprise Communications/Network Manager
Description: Plans, directs and coordinates network operation and performance functions to ensure network availability and high quality transmissions. Responsible for personnel and activities involved in monitoring, isolating, resolving and circumventing network problems. Advises management and interfaces with customers concerning problems affecting network performance. Plans implementation of enhancements and upgrades to the network and the acquisition, installation and testing of network hardware and software. Manages resource usage to minimize costs and maximize network availability. Interfaces with users to define present network needs and plan for future requirements.

79. Network Management Specialist
Description: Provides assistance in all aspects of network management from network design through implementation and the maintenance of upgrading existing networks. Analyzes, designs, specifies, documents and implements communication system requirements to support the distributed functionality of a software engineering environment. Maintains a broad knowledge of network communications and local area network/wide area network (LAN/WAN) operations, and has a demonstrated ability to independently work on complex assignments.

80. Logistics Analyst (Lead)
Description: Performs logistic support functions. Must be familiar with the principles of purchasing, handling, control and transportation of material and other property. Works independently. Performs tasks in support of logistics projects. Develops, upgrades and improves systems for tracking and reporting material, material handling procedures and scheduling. Directs and supervises other Logistics Analysts or logisticians.

81. Logistics Analyst (Intermediate)
Description: With minimal direction, performs logistic support functions. Must be familiar with the principles of purchasing, handling, control and transportation of material and other property. Works under limited supervision. Performs tasks in support of logistics projects. Develops, upgrades and improves systems for tracking and reporting material, material handling procedures and scheduling. May supervise other Logistics Analysts or Logisticians.

82. Logistics Analyst (Associate)
Description: Under broad direction, performs logistic support functions. Must be familiar with the principles of purchasing, handling, control and transportation of material and other property. Works under general supervision. Performs tasks in support of logistics projects. Develops, upgrades and improves systems for tracking and reporting material, material handling procedures and scheduling.

83. Executive Operations Research Analyst
Description: Analyzes actual and predictable, interacting, operational activities of a military, governmental, or business system to obtain a quantitative, rational basis for decision-making through the

application of logic and scientific or economic disciplines and techniques. Devises modeling and measuring techniques; utilizes mathematics, statistical methods, engineering methods, operational mathematics techniques (linear programming, game theory, probability theory, symbolic language, etc.) and other principles and laws of scientific and economic disciplines. Exhibits an exceptional degree of ingenuity, creativity, and resourcefulness. Applies and/or develops highly advanced technologies, scientific principles, theories, and concepts. Viewed as expert within the analytical field. Develops information that extends knowledge in a given field. Information may form the basis of newly developed concepts, theories and products. Often acts independently to uncover and resolve issues associated with the development and implementation of operational programs. Plans R&D programs and recommends technological application programs to accomplish long-range objectives. Work is checked only to the effectiveness of results obtained, typically requiring a long-term perspective. Virtually self-supervisory. Designs research study plans and develops highly advanced new applications resulting in new product/business opportunities for the company and in support of clients. May also serve in management capacity supporting one or more task orders at a specified location. Directs/supervises other analysts/game support personnel. Demonstrated ability to simultaneously plan, schedule, and coordinate all analytical process phases or possess the ability to take an exercise/game event from inception through completion, or work any selection of subcomponents of the exercise/gaming activity.

84. Senior Operations Research Analyst
Description: Analyzes actual and predictable, interacting, operational activities of a military, governmental, or business system to obtain a quantitative, rational basis for decision-making through the application of logic and scientific or economic disciplines and techniques. Experienced in simultaneously planning, scheduling, and coordinating selected analytical process phases, or possess the ability to work any selection of subcomponents of the exercise/gaming activity. Devises modeling and measuring techniques; utilizes mathematics, statistical methods, engineering methods, operational mathematics techniques (linear programming, game theory, probability theory, symbolic language, etc.), and other principles and laws of scientific and economic disciplines. Applies advanced technical principles, theories, and concepts. Possesses specific knowledge of analytical models, simulations, and gaming tools. Contributes to the development of new principles and concepts. Works on unusually complex technical problems and provides solutions which are highly innovative and ingenious. Works under consultative direction toward predetermined long-range goals and objectives. Assignments are often self-initiated. Determines and pursues courses of action necessary to obtain desired results. Develops advanced technological ideas and guides their development into a final product.

85. Operations Research Analyst
Description: Analyzes actual and predictable, interacting, operational activities of a military, governmental, or business system to obtain a quantitative, rational basis for decision-making through the application of logic and scientific or economic disciplines and techniques. Participates in planning, scheduling, and coordinating selected analytical process phases or assists in working any selection of subcomponents of the exercise/gaming activity. Devises modeling and measuring techniques; utilizes mathematics, statistical methods, engineering methods, operational mathematics techniques (linear programming, game theory, probability theory, symbolic language, etc.) and other principles and laws of scientific and economic disciplines. Possesses specific knowledge of analytical models, simulations and gaming tools. Applies extensive technical expertise, and has full knowledge of other related disciplines. Guides the successful completion of major programs and may function in a project leadership role. Develops technical solutions to complex problems that require the regular use of ingenuity and creativity. Work is performed without appreciable direction. Exercises considerable latitude in determining technical objectives of assignment.

86. Subject Matter Expert (Lead)
Description: Provides expert support, analysis and research into exceptionally complex problems, and processes relating to the subject matter. Serves as technical expert on executive-level project teams providing technical direction, interpretation and alternatives. Thinks independently and demonstrates exceptional written and oral communications skills. Applies advanced technical principles, theories, and concepts. Contributes to the development of new principles and concepts. Works on unusually technical

problems and provides solutions which are highly innovative and ingenious. Works under consultative direction toward predetermined long-range goals and objectives. Assignments are often self-initiated. Determines and pursues courses of action necessary to obtain desired results. Develops advanced technological ideas and guides their development into a final product. Expertise is in a particular area of Information Technology (e.g., Information Systems Architecture, Telecommunications Systems Design, Architecture, Implementation, Information Systems Integration, Software Development Methodologies, Security Engineering, Communications and Network Systems Management), or a specific functional area (e.g., finance, logistics, and operations research).

87. Subject Matter Expert (Intermediate)
Description: With minimal direction, provides expert support, analysis and research into exceptionally complex problems, and processes relating to the subject matter. Serves as technical expert on executive-level project teams providing technical direction, interpretation and alternatives. Thinks independently and demonstrates exceptional written and oral communications skills. Applies extensive technical expertise, and has full knowledge of other related disciplines. Guides the successful completion of major programs and may function in a project leadership role. Develops technical solutions to complex problems that require the regular use of ingenuity and creativity. Work is performed without appreciable direction. Exercises considerable latitude in determining technical objectives of assignment. Expertise is in a particular area of Information Technology (e.g., Information Systems Architecture, Telecommunications Systems Design, Architecture, Implementation, Information Systems Integration, Software Development Methodologies, Security Engineering, Communications and Network Systems Management), or a specific functional area (e.g., finance, logistics, and operations research).

88. Subject Matter Expert (Associate)
Description: Under broad direction, provides expert support, analysis and research into especially complex problems, and processes relating to the subject matter. Serves as technical expert on high-level project teams providing technical direction, interpretation and alternatives. Thinks independently and demonstrates superior written and oral communications skills. Possesses a complete understanding and wide experience in the application of technical principles, theories, and concepts in the field. Provides technical solutions to a wide range of difficult problems. Solutions are imaginative, thorough, practicable, and consistent with organizational objectives. Works under only general direction. Independently determines and develops approach to solutions. Contributes to the completion of specific programs and projects. Expertise is in a particular area of Information Technology (e.g., Information Systems Architecture, Telecommunications Systems Design, Architecture, Implementation, Information Systems Integration, Software Development Methodologies, Security Engineering, Communications and Network Systems Management), or a specific functional area (e.g., finance, logistics, and operations research).

89. Senior Cyber Warfare Engineer:
Description: The Senior Cyber Warfare Engineer will provide technical direction within a team of technical and engineering personnel who will conduct / manage innovative solutions associated with Cyber Warfare. They shall provide technical leadership and have a strong understanding of information assurance, cyber warfare, and managing special access or compartmentalized security programs. They will lead technical teams researching new concepts for developing situational awareness or vulnerability tools supporting US government cyber warfare interest. This may include identification, exploitation, and/or remediation of infrastructure and system vulnerabilities; offensive and/or self defending networks; effects-based capabilities for exploiting or defending infrastructure and/or systems; and reverse engineering of systems exploitations to include computer forensics, and analysis of binaries, assembly language, source code and/or malicious logic code. High level security clearances at the TS SCI levels with lifestyle poly may be required.

90. Cyber Warfare Specialist:
Description: The Cyber Warfare Specialist will provide technical and engineering support in the exploitation and/or remediation of infrastructure and computer systems. The specialist shall have an understanding in information assurance with expertise in computer and telecommunication network systems and cyber warfare. They will assist in researching new concepts for developing situational

awareness and vulnerability tools to support US Government cyber warfare efforts. They will assist the Government with the identification, exploitation, and/or remediation of infrastructure and system vulnerabilities; developing and implementing offensive and/or self defending networks; developing and defending effects-based capabilities; and reverse engineering of systems exploitations to include computer forensics, and analysis of binaries, assembly language, source code and/or malicious logic code. High level security eligibility at the TS SCI level with lifestyle polygraph may also be required.

91. Proprietary Product Architectural Consultant:
Description: Expert level experience in OEM proprietary product design and its incorporation within enterprise architecture and implementation. Provides design and architecture consulting for OEM proprietary product integration. Participates in design and architecture of complex enterprise systems, involving OEM proprietary products. Architecture specialties include enterprise, industry, platform, and product solutions, including experience with OEM proprietary products such as Microsoft and Oracle. Familiar with OEM product application integration middleware methods and products. Experience in cross-platform integration and large scale complex systems, applications, databases, and OEM proprietary product design and implementation. May supervise other architects and consultants.

92. Proprietary Product Consultant:
Description: Analyzes technical requirements and develops effective technical solutions involving OEM proprietary products and solutions. Participates in the design of information systems involving OEM proprietary product integration. Provides leadership and guidance to support the implementation of large systems, including methodology, OEM proprietary product design approaches, and architectural and engineering considerations. Works with customer staff to implement customer technology, including OEM proprietary product integration. Participates in strategic planning sessions on the implementation of information technology. Sets overall engagement direction defines processes, sets standards, and provides leadership to the project team. Responsible for planning, executing, and controlling.

93. Proprietary Product Technician:
Description: Participates in the development and implementation of large systems, including methodology, OEM proprietary product integration, design approaches, and engineering considerations. Designs and develops code for specific proprietary product OEM integration activities. Directly involved with hands-on implementation of customer systems, involving OEM proprietary products. Experience using high technology and/or emerging technology proprietary software and tools such as Oracle Application Development products and Microsoft Windows operating systems. Participates in the customization, installation, and integration of OEM proprietary products.

94. Senior Collaboration Engineer:
Description: Requires the regular application of acknowledged expertise in the collaboration systems engineering field and the use of considerable initiative and creativity. Responsible for providing technical leadership with strong knowledge and expertise in large-scale distributed systems and remote development, debugging, deployment, operations, and management of such systems. Must be able to identify the system requirements, contribute to the software systems architecture, synthesize a baseline design, evaluate candidate technologies, oversee prototyping efforts, and contribute to cost and schedule planning supporting the development. Provides expert explanations, techniques or approaches to colleagues, management and customers in developing and integrating collaboration tools within an organization. Additional activities include research, analysis, engineering, testing, documentation, implementation, integration, and operation of the collaborative solutions environment.

95. Collaboration Analyst:
Description: Focuses on tactical and operational items, operational effectiveness and delivering results related to Collaboration capabilities. Utilizes an understanding of collaborative business processes to translate business initiatives and varied business requests into functional specifications. Operates within the team to effectively translate business requests to program managers and technical leadership. Ensures that project requirements are delivered in each developed solution. Makes recommendations on work impacting the Execution function and advises management on work issues, potential impact to

Integrated Planning and potential cross-functional impact. Facilitates SME discussions and communicates system changes to the appropriate audience.

96. Executive Net-Centric Enterprise Architect:
Description: Develops high-level system concepts and associated system requirements for net-centric solutions in a Service Oriented Architecture that satisfy DoD transformational goals. Directs teams of architects and engineers to turn net-centric concepts into realizable, scalable, accreditable implementations. Assists the Government in defining DoD policies, guidance, concept of operations, and Tactics, Techniques, and Procedures (TTPs) to govern system implementation within the enterprise. Oversees teams of architects and engineers to ensure they are designing, implementing, testing, accrediting, deploying, and sustaining systems and services in conjunction with DoD policies, architectural frameworks, and commercial best practices. Keeps abreast of new enterprise architecture solutions including leading edge technologies such as grid computing, cloud computing, and Service Oriented Architecture (SOA). Maintains currency on commercial technologies and other Government initiatives to identify opportunities for technology reuse or transition. Advises senior decision makers and seeks approval for enterprise concepts and requirements.

97. Senior Net-Centric Enterprise Architect:
Description: Synthesizes enterprise system and service requirements based on broad customer needs. Directs other architects and reviews the specification and design of enterprise system and service architectures in a distributed, net-centric environment. Leverages DoD policies, architectural frameworks, and commercial best practices to lead teams of architects in the design and development of Service Oriented Architectures that satisfy enterprise scale requirements. Defines the concept of operations and Tactics, Techniques, and Procedures (TTPs) for the system's use within the enterprise. Keeps abreast of new enterprise architecture solutions including leading edge technologies such as grid computing, cloud computing, and Service Oriented Architecture (SOA). Maintains currency on commercial technologies and other Government initiatives to identify opportunities for technology reuse or transition. Advises senior decision makers and seeks approval for enterprise designs.

98. Net-Centric Enterprise Architect:
Description: Provides technical leadership for specifying, designing, implementing, testing, accrediting, deploying, and sustaining enterprise system and service architectures in a distributed, net-centric environment. Leverages DoD policies, architectural frameworks, and commercial best practices to design and develop Service Oriented Architectures that satisfy enterprise scale requirements. Leads system architects and engineers in decomposing an enterprise architecture into system components and services for analysis, design, implementation, testing, accreditation, deployment, and sustainment. Keeps abreast of new enterprise architecture solutions including leading edge technologies such as grid computing, cloud computing, and Service Oriented Architecture (SOA). Maintains technical currency on evolving technology trends and available COTS products that implement these technologies.

99. Senior Specialized Technology Training Specialist:
Description: Conducts the research necessary to design advanced level specialized technology (e.g. IA, IPv6, Secure Virtualization) training programs to include network engineering, IT systems design, and IT systems implementation. Trains junior IT personnel by conducting formal classroom courses, workshops, seminars and/or computer-based/computer-aided training. Integrates COTS hardware and software with GOTS hardware and software to produce unique system-level training courses. Provides daily supervision and direction to staff.

100. Specialized Technology Training Specialist:
Description: Conducts the research necessary to design advanced level specialized technology (e.g. IA, IPv6, Secure Virtualization) training programs to include network engineering, IT systems design, and IT systems implementation. Trains entry-level IT personnel by conducting formal classroom courses, workshops, seminars and/or computer-based/computer-aided training. Integrates COTS hardware and software with GOTS hardware and software to produce unique system level training courses.

101. Junior Information Assurance (IA) Analyst:
Description: Under general technical supervision, performs operational information assurance activities in a computing, network, or enclave environment. In accordance with the provisions of DoD Directive 8570.01-M, monitors multi-level security networks to identify potential security violations, incidents, attacks, and malicious behavior. As appropriate, takes appropriate action to report incident to higher authority as required by regulation, policy, or law and implement required IA security measures to assist in the mitigation of incident impact. Conducts analyses and documents intrusion detection incidents and data. Performs routine IA administrative tasks IAW applicable instructions and pre-established guidelines. Performs routine preventive and corrective maintenance, test and monitors network activities. Assists with the installing, day to day technical supporting, testing, and troubleshooting of IA systems in accordance with established policy, procedures, test plans and guidance.

102. Intermediate Information Assurance (IA) Analyst:
Description: Under general technical supervision, performs network monitoring, analysis and reporting in accordance with the provisions of DoD Directive 8570.01-M. These skills and their associated duties may include the following:
Intrusion: Examines potential security violations, incidents, malicious activity and attacks to determine if policy has been breached, assesses the impact, and preserves artifacts. Enters and tracks events and incidents. Supports incident escalation and assesses probable damages, identifies damage control and remediation, and assists in developing courses of action. Supervises the installation, monitoring, testing, troubleshooting, and administration of IA hardware and software systems. Recommends, schedules, and performs IA system repairs, systems administration, and maintenance. Analyzes patterns of non compliance or attacks and recommends appropriate actions to minimize security risks and insider threat. Configures, optimizes, and tests network devices. Diagnoses and resolves IA problems in response to reported incidents. Enhances rule sets to identify or block sources or potential sources of malicious traffic. Supports the design and execution of exercise scenarios.
Specialist: Implements, and monitors policies and procedures reflecting the legislative intent of applicable laws and regulations. Prepares, distributes, and maintains plans, instructions, guidance, and standard operational procedures concerning Information Security. Participates in IA risk assessments during the C&A process. Prepares, reviews, and evaluates documentation of compliance. Prepares recommendations for the DAA. Reviews IA and IA enabled software, hardware, and firmware for compliance with appropriate security configuration guidelines, policies, and procedures. Reviews AI security plans. Identifies alternative functional IA security strategies to address organizational security concerns. Reviews security safeguards to determine that security concerns identified in approved policies, plans, and doctrine have been fully addressed. Develops and implements programs to ensure that systems, network, and data users are aware of, understand, and follow IA policies and procedures.

103. Senior Information Assurance (IA) Analyst:
Description: Provides the leadership, management, and supervisory IA skills identified in DoD Directive 8570.01-M. These skills and their associated duties may include the following: Intrusion: Ensures the rigorous application of IA policies, principles, and practices in the delivery of all information technology (IT) and IA services. Leads and directs team personnel too quickly, efficiently and effectively to solve complex IA problems. Identifies IA requirements as part of the IT acquisition development process and assists in the formulation of IA /IT budgets. Plans, integrates, and schedules the installation of new or modified hardware, operating systems, and software applications. Supervises the assessment and implementation of identified computer and network environment fixes such as system patches and fixes associated with specific technical vulnerabilities as part of the Information Assurance Vulnerability Management program. Guides the implementation of appropriate operational structures and processes to ensure an effective IA security program including boundary defense, incident detection and response. Evaluates functional operation and performance in light of test results and make recommendations regarding C&A. Monitors and evaluates the effectiveness of IA security procedures and safeguards. Evaluates security violations to determine necessary initial and long term corrective action. Assesses impact, determines probably damage and suggest methods of damage control, conducts computer forensics, and follow-on analysis to build historical and predictive capabilities for IA incidents. Develops IA related customer support policies, procedures, and standards. Designs perimeter defense systems

including intrusion detection systems, firewalls, grid sensors, etc., enhances rule sets to detect or block sources of malicious traffic, and establishes a protective net of layered defenses to prevent, detect, and eradicate threats. Specialist: Ensures that protection and detection capabilities are acquired or developed using the IS security engineering approach and are consistent with DoD Component level IA architecture. Has a working knowledge of DoD provided IA tools. Has a working knowledge of policy, guidance and evaluation criteria of the DoD Critical Infrastructure Program. Prepares and/or oversees the preparation of IA certification and accreditation documentation. Analyzes, develops, evaluates, and integrates IA policies. Assists in the gathering and preservation of evidence used in the prosecution of computer crimes. Identifies the IT security program implications of new technologies or technology upgrades. Conducts IA cost benefit, economic and risk analysis in the IT acquisition decision making process. Interprets security requirements relative to the capabilities of new information technologies. Interprets patterns of non compliance to determine their impacts on levels of risk and/or overall effectiveness of IA programs. Analyzes identified security strategies and recommends the best approaches and/or practices. Monitors and evaluates the effectiveness of IA security procedures and safeguards to ensure they provide the intended level of protection.

104. Principal Information Assurance Subject Matter Expert:
Description: SMEin all functional and technical requirements associated with IAT position requirements as specified in DoD Directive 8570.01-M. Applies extensive knowledge of a variety of the IA field's concepts, practices, and procedures to ensure the secure integration and operations of all computer enclave systems. Works independently to evaluate and solve complex IA related problems quickly and completely. Supports, monitors, tests, and troubleshoots hardware and software IA problems pertaining to the enclave environment. Prepares and/or oversees the preparation of IA certification and accreditation documentation. Develops system-wide information security requirements based upon the analysis of user, policy, regulatory, and resource demands for complex network and enclave systems. Supports customers at the highest levels in the development and implementation of doctrine and policies. Provides leadership and guidance in the development, design and application of solutions implemented by more junior staff members. May have top-level management responsibilities. Coordinates with senior representatives within the customer organizations to establish and define programs, resources and risks. Applies expertise to government and commercial common user systems, as well as to dedicated special purpose systems requiring specialized security features and procedures. Provides guidance and direction to other professionals and serves in a consulting and/or advisory capacity.

105. Capacity Management Specialist (Associate):
Description: Supports capacity planning and performance analysis of computer systems. Supports the determination of current levels of system and application resource utilization and performance. Supports analytical modeling to describe utilization and performance at multiple levels of granularity. Supports resource chargeback rate-setting activities. Analyzes the impact of new technologies on processor and peripheral utilization and performance. Supports workload sizing for new and existing applications. Supports the implementation of hardware and software upgrades. Supports the construction of capacity plans. Utilizes systems that analyze and report levels of utilization and performance. Oversees storage of capacity and performance data. Supports disaster recovery sizing activities. Supports the measurement and reporting of service level objectives. Supports capacity management audits. Utilizes the capacity management tool set.

106. Capacity Management Specialist (Intermediate):
Description: Responsible for capacity planning and performance analysis of computer systems. Determines current levels of system and application resource utilization and performance. Constructs analytical models describing utilization and performance at multiple levels of granularity. Develops workload projection methodologies to estimate future resource requirements. Supports resource chargeback rate-setting activities. Analyzes the impact of new technologies on processor and peripheral utilization and performance. Performs workload sizing for new and existing applications. Supports the implementation of hardware and software upgrades. Constructs capacity plans. Develops systems to analyze and report levels of utilization and performance. Oversees storage of capacity and performance data. Recommends parameters that regulate the relative utilization levels of workloads. Supports

disaster recovery sizing activities. Supports the measurement and reporting of service level objectives. Supports capacity management audits. Utilizes the capacity management tool set.

107. Capacity Management Specialist (Lead):
Description: Responsible for capacity planning and performance analysis of computer systems. Determines current levels of system and application resource utilization and performance. Constructs analytical models describing utilization and performance at multiple levels of granularity. Develops workload projection methodologies to estimate future resource requirements. Supports resource chargeback rate-setting activities. Analyzes the impact of new technologies on processor and peripheral utilization and performance. Performs workload sizing for new and existing applications. Supports the implementation of hardware and software upgrades. Constructs capacity plans. Develops and implements systems to analyze and report levels of utilization and performance. Oversees storage of capacity and performance data. Recommends parameters that regulate the relative utilization levels of workloads. Supports the measurement and reporting of service level objectives. Supports disaster recovery sizing activities. Supports capacity management audits. Utilizes the capacity management tool set. Coordinates team capacity management activities.

108. Principal Systems Engineer:
Description: Applies a comprehensive set of systems engineering principles and disciplines supporting Windows NT 4.0 / 2000 and HP UX 11.0 administration and network support. Installs and configures the servers and client software upgrades, as well as provide network monitoring and firewall configuration. Provides engineering support, tests, administers, and troubleshoots mail server. Develops engineering assessments of different configurations. including the review of work products for correctness, adherence to the design concept and to user standards, and for progress in accordance with schedules. Coordinates with the Project and/or Program Manager to ensure problem solution and user satisfaction. Makes recommendations, if needed, for approval of major systems installations. Prepares milestone status reports and deliveries/presentations on the system concept to colleagues, subordinates, and end user representatives.

109. CTI/VVID Engineer Level 2:
Description: Knowledge in one or more aspects of telecommunications, internetworking, data networking, computer telephony integration (CTI), and/or video, voice, and data network converged networks (VVIDs). Primarily deals with IP and Frame-Relay-based VVID networks. This individual has broad knowledge in one or more areas of the telecommunications, internetworking, and data systems network arenas, and may have specialized knowledge in one or more of the following areas: routing and switching infrastructures, transport technologies, network management, Internet protocol (IP) telephony integration, basic network security and Internet service provider (ISP)/dial-up technologies—for computer telephony integration (CTI) and/or video, voice, and data converged networks. Capable of working with supervision on specific tasks associated with the implementation of telecommunications, internetworking, and data network systems. Provides assistance and performs general tasks for CTI and/or VVID converged networks. Performs general technical support in one or more areas associated with telecommunications, internetworking, data network systems, CTI and/or VVID converged networks. Performs tasks associated with the interoperability and integration of the above networks. Assists in testing or analysis of telecommunications, data, and VVID networks. May perform other duties as required.

110. CTI/VVID Engineer Level 3:
Description: Has in-depth knowledge in multiple aspects of telecommunications; and/or internetworking; and/or data systems networking. This individual has broad knowledge in one or more areas of the telecommunications, internetworking, and VVID network arena, and may have specialized knowledge in one or more of the following areas: routing and switching infrastructures, transport technologies, network management, IP telephony integration, advanced network security, ISP/ dial-up, system network architecture (SNA)/IP migration. Is capable of supporting IP, frame relay, and asynchronous transfer mode (ATM)—VVID networks. Capable of supervising and managing the implementation of specific aspects of telecommunications, internetworking, and data systems networking; also capable of

supervising a team of engineers in highly complex data, internetworking, and telecommunications network projects. Provides lead engineer support for a specific technology area associated with telecommunications, internetworking, data systems networking, and CTI/VVID networks. Performs technical lead management responsibilities for the specific areas above. Provides in-depth analysis on interoperability, protocols, and services, as well as migration and technology transfer programs for CTI and VVID networks. Provides advanced technical support in one or more specific areas associated with network-architecture technologies, interoperability, and integration for CTI/VVID networks. May perform other duties as required.

111. CTI/VVID Engineer Level 4:
Description: Subject matter expert in one or more aspects of telecommunications, internetworking, data networking, and CTI/VVID converged networks. This individual has specialized knowledge in one or more aspects of the telecommunications, internetworking, data network, and CTI/VVID fields and may have specialized knowledge in one or more of the following areas: routing and switching infrastructures, transport technologies, network management, IP telephony integration, advanced network security, ISP/ dial-up, and SNA/IP migration—for CTI/VVID converged networks. Supervises or manages technology-specific implementation projects and is considered a subject matter expert or leading specialist in a particular technology vertical. Capable of managing and supervising multiple engineering teams or departments in highly complex telecommunications internetworking, data network, and CTI/VVID converged networks. Provides lead analysis and consultation for complex CTI/VVID converged networks designs. Provides leadership or direction on research and testing associated with telecommunications, internetworking, data networks, and CTI/VVID converged networks projects, as well as interoperability and integration testing. Performs management responsibilities for a program or network staff. Has the ability to perform modeling and simulation services for complex CTI/VVID converged networks. May perform other duties as required.

112. Principal Network Architect—CTI/VVID Converged Networks:
Description: Leading expert (LE) in one or more aspects of telecommunications, internetworking, data networks, and CTI/VVID converged networks. Has broad high-level knowledge in telecommunications, internetworking, data networks, and CTI/VVID converged networks. This individual spans both voice and data telecommunications and has the capability to direct, design, or develop network architecture plans, implementation or cutover plans, and technical white papers or perform requirements analysis for interoperability issues associated with CTI/VVID communications environments. Supervises or manages technology-specific implementation projects and is considered an LE in one or more fields associated with CTI/VVID converged networks. Capable of managing and supervising multiple specialty engineers in highly complex telecommunications, internetworking, or data network projects. Provides architectural and enterprise level consulting and design, for complex telecommunications, internetworking, data networks, and CTI/VVID converged networks. Provides leadership or direction on innovative research associated with complex telecommunications, internetworking, and data networks, and CTI/VVID converged networks projects, as well as network interoperability and integration. Performs management responsibilities for multiple engineering teams and departments. Provides in-depth analysis on communications and network models and technologies; transport layer architectures; emerging protocols and technologies; and knowledge transfer and repositories associated with CTI/VVID converged networks. May perform other duties as required.

113. Graphic Artist:
Description: Provides graphic arts development and support to the Documentation Specialist, Technical Writer, and Senior Level Management. May work under the direction of the aforementioned or may work independently. Consults and advises customers' staff regarding graphic projects requiring professional treatment. Creates and visualizes ideas graphically for publications and Web sites. Revises subject matter for graphic presentation, selecting materials and processes, and designs format. Prepares and oversees the preparation of original designs, drawings, graphs, charts, models, and exhibits for external presentation and publication. Determines requirements for publication artwork, including selection of ink, paper, and type style in conjunction with publication customers. Consults with and advises customers concerning pending graphics, publications, and artwork, including cost estimates and artwork content.

Plans and designs the production of graphics used in complex instructional aids, exhibits, and multi-image presentations. Reviews layouts, sketches, and final plans for production and evaluates artistic media. Coordinates production workflow of publications (house organs, periodicals, brochures, and manuscripts).

114. Graphic Designer:
Description: Designs and develops extremely complex graphics and illustrations for use in technical materials, manuals, and publications. Formulates concept and creates illustrations and detail from models, sketches, memory, written or verbal instructions, and imagination. Selects type, draws lettering, and lays out material. Determines style, technique, and medium best suited to produce desired effects and conform to reproduction requirements.

115. Microsoft MCS Consultant:
Description: Assist in delivering technical presentations to customer staff. Analyze technical requirements and develop effective technical solutions. Designs and writes code as required for selected customer systems. Develop documentation on selected customer systems and objectives. Directly involved in the hands-on implementation of customer systems. Provide Technical Writing and Documentation support. Work with customer staff personnel to support technical strategy and control objectives. Assist in conceiving architectural designs. Assist in the implementation of large systems including methodology, design approaches, and architectural and engineering considerations. Meet/interview customer to capture specific requirements in concise format. Provide key personal link to Microsoft technology groups. Work with customer staff to implement customer technology (e.g., testing, documentation, meeting user expectations). Has demonstrated performance or internship in related technology. Experienced in topic such complex networks, cross-platform integration and large-scale, complex systems design and implementation. Microsoft will have formally trained this individual in product futures, and in one or more of the following areas: Microsoft Solutions Framework, product futures, and relevant Certified Training associated with Microsoft's products.

116. Senior Knowledge Management Specialist:
Description: Leads the design of knowledge management systems; formulates and defines system scope and objectives. The Senior Knowledge Management Specialist assists organization in defining knowledge content, organization, and key words; prepares detailed specifications for knowledge management programs to include process definition for knowledge capture and management; manages the design of knowledge management user interface features, site animation, and special knowledge management features including enhancing the look and feel of the organization's on-line knowledge management screens. The Senior Knowledge Management Specialist works with organization web designers, data managers and programmers to support and implement the organization's knowledge management program; maintains an understanding of organization’s knowledge management principles, procedures and processes and support the work of the organization's knowledge management team. The Senior Knowledge Management Specialist also instructs, directs, and checks the work of knowledge management specialists.

117. Principal Knowledge Management Specialist:
Description: Recognized for in-depth knowledge of a specific product or families of knowledge management applications, products and associated applications interface technologies. The Principal Knowledge Management Specialist utilizes technical area competencies to assess the operational and/or technical baseline of an organization as specifically associated with its functional components. Examples of the functional areas would include Information Technology, Human Resources, Finance, Logistics, Transportation, etc. The Principal Knowledge Management Specialist works with information technology professionals to provide insight and advice to senior managers and executives, concerning the strategic direction and applicability of knowledge management techniques and products. The Principal Knowledge Management Specialist assumes a lead role in contributing to the development of standards and best practices surrounding the use of knowledge management techniques and applications. The Principal Knowledge Management Specialist provides technical insight into the determination of technical inadequacies and/or deficiencies that affect the functional area's ability to support/meet organizational

knowledge management goals and generates technical strategies for enhanced knowledge management operations, as well as ways to improve productivity across functional areas within the organization. The Principal Knowledge Management Specialist has significant experience with knowledge management products and tools such as Portal Technologies: IBM WebSphere, Microsoft SharePoint Portal, Sybase Enterprise Application Server, BEA WebLogic, JBoss Enterprise Portal, SAP. Database Technologies: Oracle, DB2, IBM Lotus Domino, Microsoft SQL Server, MySQL, File Maker. Operating Systems: Microsoft Windows Servers, UNIX, Linux, Apache. Programming Languages: JAVA, PhP, ASP, C++, C#, CFScript, JavaScript, CSS, Ruby, Perl, XML, AJAX, LotusScript. Other: MediaWiki (Wikipedia), WordPress (Blogs), IBM QuickPlace and IBM QuickR (Collaborative Online Workspace), Adobe product line (Dreamweaver, Photoshop Fireworks and Flash), Tivoli Directory Management, IBM Sametime. Participates in technical assessments and reviews to validate the technical approach and associated work products, for knowledge management implementations. Provides guidance and direction to other professionals, acts in a consulting and/or advisory capacity; coordinates resolution of highly complex problems and tasks, possesses ability to meet and operate under deadlines. Activities related to the knowledge management processes, include but are not limited to: content analysis, document management, data capture, portals, workflow, collaboration, data warehousing, decision support, information dissemination; planning to encompass the strategy, architecture and methodology for an enterprise modernization effort; selection, implementation and measure of packaged solutions for enterprise modernization; complete integration of applications with target data and defined processes.

118. Senior Service Oriented Architecture (SOA) Consultant:
Description: Provide technical leadership and hands-on development of large-scale SOA based technology solutions provided by vendors such as IBM, BEA, Microsoft, and SUN. Strong architecture skills with an understanding and/or development experience in XML, SOAP, UDDI, J2EE, .Net, WS-Security, ITIL processes, SOA Governance, Web Services Management tools, and Object Oriented Programming. The Senior SOA Consultant uses their hands-on experience with UML, Enterprise Architecture, and XML/Schema documentation tools (including tools like Visio, WebSphere Integration Developer, XMLSpy, Rational Software Architect, etc.) to provide strong business process and requirements analysis skills. The Senior SOA Consultant demonstrates experience with Enterprise Integration technologies including MQSI, Message Broker v5/v6, WebSphere Process Server, or CrossWorlds; provides technical skills through a hands-on approach to teams and projects developing enterprise services, interfaces, and tools, including component administration, message tracking, security configuration, and deployment within the context of a services architecture.

119. Principal Service Oriented Architecture (SOA) Consultant:
Description: Recognized for in-depth knowledge of a specific product or families of Service Oriented Architecture (SOA) applications, products and associated applications interface technologies. The Principal SOA Consultant utilizes technical area experience to assess the operational and/or technical baseline of an organization as specifically associated with its functional components, supports delivery of SOA solutions, makes infrastructure decisions and uses knowledge of open standards related to SOA such as Web Services (WS-*), XML, BPEL, SOAP, UDDI, J2EE, and Java, and uses knowledge of COTS software products related to constructing a SOA / ESB-based solution. The Principal SOA Consultant maintains an awareness of ITIL processes, SOA Governance, and SOA / WS and legacy interface mechanisms. Work involves both Windows and Linux systems, and familiarity with both open source and open standards as they relate to SOA; and has significant experience with SOA Governance, ITIL / Server Consolidation, Information integration and Federation, Process Server, Application Server, and Business Modeler Tools.

120. Security System Engineer Level 1 (Junior):
Description: Identifies and mitigates vulnerabilities using alternate or compensating controls if necessary. Supports, monitors, tests, and troubleshoots IA software issues in conjunction with other IA staff to ensure timely response actions to security incidents. Recognizes potential security violations, takes appropriate action to report the incident as required by regulation, and mitigates any adverse impact. Implements applicable patches including IA vulnerability alerts (IAVA), IA vulnerability bulletins (IAVB), and technical advisories (TA) for assigned operating system(s). Under technical supervision,

performs information assurance activities in data center environments. Assists with the installation, daily operation, and maintenance of IA systems to include technical support, troubleshooting, and system testing.

121. Security System Engineer Level 2 (Master):
Description: Identifies and mitigates vulnerabilities using alternate or compensating controls if necessary. Supports, monitors, tests, and troubleshoots IA software issues in conjunction with other IA staff to ensure timely response actions to security incidents. Recognizes potential security violations, takes appropriate action to report the incident as required by regulation, and mitigates any adverse impact. Implements applicable patches including IA vulnerability alerts (IAVA), IA vulnerability bulletins (IAVB), and technical advisories (TA) for assigned operating system(s). Under general supervision of a network manager, uses experience and judgment as well as existing policies and regulations to provide network environment (NE) and advanced level computing environment support to include perimeter controls, internal network monitoring, sensor implementation and analysis.

122. Security System Engineer Level 3 (Senior):
Description: Identifies and mitigates vulnerabilities using alternate or compensating controls if necessary. Supports, monitors, tests, and troubleshoots IA software issues in conjunction with other IA staff to ensure timely response actions to security incidents. Recognizes potential security violations, takes appropriate action to report the incident as required by regulation, and mitigates any adverse impact. Implements applicable patches including IA vulnerability alerts (IAVA), IA vulnerability bulletins (IAVB), and technical advisories (TA) for assigned operating system(s). Under limited supervision, supports advanced computing, network, or enclave environments, applies extensive knowledge of a wide range of IA concepts, practices and procedures to ensure the secure integration and operation of all enclave systems. By working independently or leading and directing others, solves IA problems quickly and completely.

123. Information Assurance/System Security Architect Level 1 (Junior):
Description: Participates in risk assessment during the Certification and Accreditation process. Designs, develops, implements, and integrates information assurance architecture, system, or system component for use within data center, network, and enclave environments. Participates in information systems risk assessments and designs security countermeasures to mitigate identified risks. Ensures that the architecture and design of DoD information systems (IS) are functional and secure. As necessary, designs and develops IA or IA enabled products, interface specifications, and approaches to secure the environment. Entry level position that applies knowledge of existing IA policy, procedures, and structures to design, develop, and implement systems, components, or architectures. Ensures that the implementation of security designs properly mitigate identified threats. Documents system security design features and provides input to implementation plans and standard operating procedures.

124. Information Assurance/System Security Architect Level 2 (Master):
Description: Participates in risk assessment during the Certification and Accreditation process. Designs, develops, implements, and integrates information assurance architecture, system, or system component for use within data center, network, and enclave environments. Participates in information systems risk assessments and designs security countermeasures to mitigate identified risks. Ensures that the architecture and design of DoD information systems (IS) are functional and secure. As necessary, designs and develops IA or IA enabled products, interface specifications, and approaches to secure the environment. Assesses threats to the environment and provides input on the adequacy of security designs and architectures. Reports to senior IA architect, IA manager, or DAA for most operations with separate reporting to other senior management for network operational requirements, as necessary. Utilizes experience and judgment to plan and accomplish goals.

125. Information Assurance/System Security Architect Level 3 (Senior):
Description: Participates in risk assessment during the Certification and Accreditation process. Designs, develops, implements, and integrates information assurance architecture, system, or system component for use within data center, network, and enclave environments. Participates in information systems risk assessments and designs security countermeasures to mitigate identified risks. Ensures that

the architecture and design of DoD information systems (IS) are functional and secure. As necessary, designs and develops IA or IA enabled products, interface specifications, and approaches to secure the environment. Utilizes experience and judgment to plan and accomplish enclave security related goals. Supports system or network designs that encompass multiple data center or networks to include those with differing data protection/classification requirements. Reports to DAA for IA issues with separate reporting to other senior management for network operational requirements, as necessary.

126. Principal Systems Solutions Engineer:
Description: Senior consultant to top level management Viewed as the expert in discipline or related area of expertise, exhibiting an exceptional degree of ingenuity, creativity, and resourcefulness. Managerial/leadership experience required. Typically serves as the prime spokesperson to the customer. Performs technical planning, system integration, verification and validation, cost and risk, and supportability and effectiveness analyses for total systems. Analyses are performed at all levels of total system product to include: hardware/software, concept, design, fabrication, test, installation, operation, maintenance and disposal. Performs duties such as site surveys, system evaluation, system analysis, architecture, and infrastructure assessment. Ensures the logical and systematic conversion of customer or product requirements into total systems solutions that acknowledge technical, schedule, and cost constraints. Applies and/or develops advanced technologies, scientific principles, theories, and concepts. Often acts independently to resolve issues associated with the development and implementation of operational programs. Plans R&D programs and recommends technological application programs to accomplish long-range objectives.

127. Senior Staff Systems Solutions Engineer:
Description: Considered an authority in discipline or related area of expertise. Managerial/leadership experience required. Works unusually complex problems with consultative direction. Performs technical planning, system integration, verification and validation, cost and risk, and supportability and effectiveness analyses for total systems. Analyses are performed at all levels of total system product to include: hardware/software, concept, design, fabrication, test, installation, operation, maintenance and disposal. Performs duties such as site surveys, system evaluation, system analysis, architecture, and infrastructure assessment. Ensures the logical and systematic conversion of customer or product requirements into total systems solutions that acknowledge technical, schedule, and cost constraints. Applies and/or develops advanced technologies, scientific principles, theories, and concepts. Resolves issues associated with the development and implementation of operational programs. Provides input to R&D programs and recommends technological application programs to accomplish long-range objectives.

128. Staff Systems Solutions Engineer:
Description: Emerging authority in discipline or related area of expertise. May function in project leadership roles and represents the organization as prime customer contact on significant technical matters on contracts. Solves complex problems that require the regular use of ingenuity and creativity. Performs technical planning, system integration, verification and validation, cost and risk, and supportability and effectiveness analyses for total systems. Analyses are performed at all levels of total system product to include: hardware/software, concept, design, fabrication, test, installation, operation, maintenance and disposal. Performs duties such as site surveys, system evaluation, system analysis, architecture, and infrastructure assessment. Ensures the logical and systematic conversion of customer or product requirements into total systems solutions that acknowledge technical, schedule, and cost constraints. Applies and/or develops advanced technologies, scientific principles, theories, and concepts. Resolves issues associated with the development and implementation of operational programs. Provides input to R&D programs and recommends technological application programs to accomplish long-range objectives.

129. Net-centric Enterprise Security Systems Engineer:
Description: Senior-level professional and requires a high level of information assurance and security experience. Possesses specific systems engineering knowledge and experience in one or more areas including current security technologies such as Public Key Infrastructure (PKI), Key Management (KM), Key Root Management (KRM) and Virtual Private Networks (VPN), but also emerging technologies such

as but not limited to Identity Management (IdM), Privilege Management (PrM), Digital Policy Management, IA Metadata, Crypto Key Management, Credential Management and Attribute Management. Frequently requires high level of security clearance at TOP SECRET and SECRET security levels to perform work at contractor or Government sites. Able to independently accomplish complex requirements. Performs requirements analysis to determine security needs for complex software, systems, components, and networks. Designs software tools and subsystems to support integration of security products into a secure IT environment. Interface with client to determine present and future secure network needs, and designs complex network architecture to meet requirements. Designs and implements test and evaluation processes for security and resolves complex integrity issues. Provides guidance to less experienced secure systems/software engineers. Performs complex assignment with little guidance. Has latitude in completing broad objectives.

130. Net-centric Enterprise Security Software Engineer:
Description: Fully competent, professional position and requires a moderately high level of information assurance and security experience. Possesses specific software engineering knowledge and experience in one or more areas including current security technologies such as Public Key Infrastructure (PKI), Key Management (KM), Key Root Management (KRM) and Virtual Private Networks (VPN), but also emerging technologies such as but not limited to Identity Management (IdM), Privilege Management (PrM), Digital Policy Management, IA Metadata, Crypto Key Management, Credential Management and Attribute Management. Participates in the requirements analysis phase of determining security needs for software, systems, components, networks, and security products into a secure IT environment. Designs moderately complex network security architecture to include software, and connectivity to support the total security requirements and interfaces. Configures security components in a manner consistent with organizational information security policies. Performs test and evaluations of security products and resolves integrity issues. Works under minimal supervision and independently performs duties of high complexity.