



8(a) STARS Schedule Pricelist

General Services Administration
Federal Supply Service
Contract No. GS-06F-0147Z



General Services Administration



U.S. General Services Administration

8(a) STARS

GWAC Federal Supply Service Schedule Pricelist

Contract Number: GS-06F-0147Z

Period Covered by Contract

01 June 2009 through 30 November 2011

Functional Area 1	NAICS 541511	Custom Computer Programming Services
Functional Area 2	NAICS 541512	Computer Systems Design Services
Functional Area 3	NAICS 541513	Computer Facilities Management Services
Functional Area 4	NAICS 518210	Data Processing, Hosting and Related Services
Functional Area 5	NAICS 541519	Other Computer Related Services



OnPoint Consulting, Inc.
1515 N. Courthouse Road, Suite 310
Arlington, VA 22201

Pricelist current through modification #PO018, dated 11/16/10

Products and ordering information in this Authorized FSS
Technology Schedule Pricelist are also Available on the GSA IT Solutions System.
Agencies can browse the Federal Supply Service's Home Page
Via the Internet at <http://it-solutions.gsa.gov/>

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Company Information

OnPoint is a technology and management consulting firm providing innovative, technology-driven solutions to meet the business challenges faced by our government and commercial customers. OnPoint has over eight years of experience in the successful management, execution, and deployment of integrated IT support services and program management solutions for clients including the Department of Energy (DOE), Department of Transportation (DOT), Department of Education (DoED), Securities and Exchange Commission (SEC), National Institutes of Health (NIH), Small Business Administration (SBA), Department of Commerce (DOC), Department of Treasury (DOTr), Department of Agriculture (USDA), and the Department of Defense (DOD) Missile Defense Agency (MDA).

OnPoint, a minority-owned, small business with headquarters in Arlington, Virginia, is certified under the U.S. Small Business Administration's 8(a) Program through August 2005. OnPoint provides support in the areas of network operations, systems development, information assurance, program and project management, information technology, and management consulting. With projected 2007 revenues of \$30 million, OnPoint employs a staff of approximately 200 technology specialists, engineering, and program support professionals.

OnPoint also received the Small Disadvantaged Contractor of the Year Award from the Oak Ridge National Laboratory and the Information Technology Quality Award for "Management and Administrative Excellence" from the DOE Office of Science.

Information for Ordering Offices

1. Geographic Scope of Contract:

The Geographic scope of the contract is the 48 contiguous states and the District of Columbia.

2. Contractor's Ordering Address and Payment Information:

OnPoint Consulting, Inc.
1515 N. Courthouse Road, Suite 310
Arlington, VA 22201
PH: 703/841.5500
FAX: 703/841.5501

Government purchase cards **are** acceptable for payment above the minimum-purchase threshold. In addition, bank account information for wire transfer payments will be shown on the invoice.

The following telephone number(s) can be used by ordering agencies to obtain technical and/or ordering assistance:

OnPoint Consulting, Inc.
ATTN: Mr. David Hefter
1515 N. Courthouse Road, Suite 310
Arlington, VA 22201
PH: 703/841.5500 x143
FAX: 703/841.5501
EMAIL: dhefter@onpointcorp.com

3. Liability for Injury or Damage

The Contractor shall not be liable for any injury to Government personnel or damage to Government property arising from the use of equipment maintained by the Contractor, unless such injury or damage is due to the fault or negligence of the Contractor.

4. Statistical Data for Government Ordering Office

Data Universal Numbering System (DUNS) Number: **802314120**
Type of Contractor– **8(a): SBA Approved**
Contractor's Taxpayer Identification Number (TIN): **521758972**
CAGE Code: **1CFW7**

5. Delivery Schedule and Period of Performance

- a. The delivery schedule for individual orders will be as specified in each individual task order.
- b. The period of performance will be as specified in each individual task order.



6. Discounts: Prices shown are NET Prices; Basic Discounts have been deducted.

- a. Prompt Payment: **None**
- b. Quantity: **None**
- c. Dollar Volume: **None**
- d. Government Educational Institutions: **None**
- e. Other: **None**

7. Advantages of Using 8(a) STARS

- a. Directed task orders up to \$3.5 million each for federal civilian agencies are allowable pursuant to 41 U.S.C. 253(c)(5);
- b. Directed task orders up to \$3.5 million each for Department of Defense activities are compliant with Section 803 of the 2002 National Defense Authorization Act;
- c. Directed task orders with a value greater than \$3.5 million are to be processed through GSA, which will provide a fair opportunity among contract holders within the applicable Functional Area.
- d. 8(a) credit can be transferred back to client agency via Federal Procurement Data System (FPDS)
- e. Program ceiling: \$15 billion
- f. Non-protestable
- g. Order placement: GSA FTS Client Support Centers or Delegation of Authority from Procuring Contracting Officer

8. Small Business GSA IT Solutions Shop (ITSS)

Small Business GSA IT Solutions Shop is an on-line, interactive electronic information and ordering system that provides on-line access to vendors' schedule prices with ordering information. ITSS will allow the user to perform various searches across all contracts including, but not limited to:

- (1) Manufacturer;
- (2) Manufacturer's Part Number; and
- (3) Product categories.

Agencies can browse ITSS by accessing the Internet World Wide Web utilizing a browser (ex.: Netscape). The Internet address is <http://it-solutions.gsa.gov/>

9. Contractor Team Arrangements

Federal Supply Schedule Contractors may use "Contractor Team Arrangements" (see FAR 9.6) to provide solutions when responding to a customer agency requirements. The policy and procedures outlined in this part will provide more flexibility and allow innovative acquisition methods when using the Federal Supply Schedules. See the additional information regarding Contractor Team Arrangements in this Schedule Pricelist.

Functional Area (FA) Descriptions

FA1 - 541511 Custom Computer Programming Services.

This U.S. industry comprises establishments primarily engaged in writing, modifying, testing, and supporting software to meet the needs of a particular customer.

Business Categories --

- Applications Software Programming Services
- Computer Program or Software Development
- Computer Programming Services
- Computer Software Support Services
- Database Design/Generation
- Legacy Interfaces/Data Migration
- Software Analysis and Design
- Software Programming
- Software Testing
- Web Design

FA2 - 541512 Computer Systems Design Services.

This U.S. industry comprises establishments primarily engaged in planning and designing computer systems that integrate computer hardware, software, and communication technologies. The hardware and software components of the system may be provided by this establishment or company as part of integrated services or may be provided by third parties or vendors. These establishments often install the system and train and support users of the system.

Business Categories –

- Business Process Reengineering (BPR)
- Cabling & Wiring
- Computer-Aided Design (CAD) Services
- Computer-Aided Engineering (CAE) Services
- Computer-Aided Manufacturing (CAM) Services
- Computer Hardware Consulting Services
- Computer Software Consulting Services
- Computer Systems Integration Analysis and Design
- Computer Systems Integration Design Consulting
- Configuration Management
- Enterprise Architecture Development
- Enterprise Resource Planning (ERP)
- Hardware
- IT Capital Planning Management
- LAN/WAN Design
- Network Design & Installation
- Network Systems Integration
- Systems Analysis
- Systems Integration

FA3 - 541513 Computer Facilities Management Services.

This U.S. industry comprises establishments primarily engaged in providing on-site management and operation of clients' computer systems and/or data processing facilities. Establishments providing computer systems or data processing facilities support services are included in this industry.

Business Categories –

- Computer Operations/Support
- Computer Systems Facilities Services
- Data Processing Facilities Services
- End User Support
- Equipment Inventory & Maintenance
- Facilities Management, Operation, & Support
- Facilities Planning
- Hardware/Software Maintenance
- Help Desk
- Network Management

FA4 - 518210 Data Processing, Hosting and Related Services.

This industry comprises establishments primarily engaged in providing infrastructure for hosting or data processing services. These establishments may provide specialized hosting activities, such as web hosting, streaming services or application hosting, provide application service provisioning, or may provide general time-share mainframe facilities to clients. Data processing establishments provide complete processing and specialized reports from data supplied by clients or provide automated data processing and data entry services.

Business Categories –

- Application Hosting
- Application Service Providers (ASPs)
- Automated Data Processing
- Computer Input Preparation
- Data Capture Imaging Services
- Data Entry Services
- Data Processing
- Data Warehousing
- Document Imaging
- Electronic Data Processing
- Media Streaming
- Microfiche/Microfilm Services
- Scanning Services
- Storage Area Networks
- Web Hosting

FA5 - 541519 Other Computer Related Services.

This U.S. industry comprises establishments primarily engaged in providing computer related services (except custom programming, systems integration design, and facilities management services). Establishments providing computer disaster recovery services or software installation services are included in this industry.

Business Categories –

- Computer Disaster Recovery
- Contingency Planning
- Disaster Preparedness/Recovery
- Documentation
- Information Assurance and Security
- Independent Verification & Validation
- Software Installation
- Virus Detection/Recovery



OnPoint GSA Labor Rates**FUNCTIONAL AREA 1 – NAIC CODE 541511
Custom Computer Programming Services**

Labor Category	06/01/10-11/30/11
Project Manager – Senior	\$172.80
Applications Systems Analyst/ Programmer – Intermed	\$82.64
Applications Systems Analyst/ Programmer – Sr	\$105.19
Database Analyst/ Programmer - Intermediate	\$81.50
Database Analyst/ Programmer – Senior	\$103.69
Documentation Specialist - Intermediate	\$63.24
Documentation Specialist - Senior	\$82.64
Graphics Specialist	\$82.64
Quality Assurance Analyst - Intermediate	\$75.13
Quality Assurance Analyst - Senior	\$102.17
Software Architect	\$135.24
Software Developer – Intermediate	\$90.15
Software Developer – Senior	\$112.69
Software Systems Engineer - Intermediate	\$82.64
Software Systems Engineer - Senior	\$97.21
Technical Editor	\$90.15
Web Software Developer	\$104.72
Applications Programmer	\$78.27
Business Subject Matter Specialist	\$227.87
Chief Information Security Officer	\$181.09
Client/Server Database Manager	\$99.69
Communications Facility Engineer	\$127.49
Communications Installer	\$53.40
Communications Transmission Engineer	\$93.45
Consultant	\$227.87
Data Architect	\$99.69
Data/Configuration Management Specialist	\$99.69
Engineering Subject Matter Specialist	\$227.87
Information Assurance Development Engineer	\$177.77
Information Assurance Engineer	\$200.72
Information Assurance Network Specialist	\$149.10
Information Assurance Systems/Network Specialist	\$172.05
Information Security Business Analyst	\$126.16
IT Subject Matter Specialist	\$227.87



Labor Category	06/01/10-11/30/11
Project Engineer	\$93.00
Quality Assurance Specialist	\$75.41
Security Coordinator	\$177.00
Strategic Planner	\$115.14
Systems Engineer	\$70.78
Technical Writer	\$75.41
Web Content Analyst	\$100.68
Web Security Analyst	\$108.97



FUNCTIONAL AREA 2 – NAIC CODE 541512
Computer Systems Design Services

Labor Category	06/01/10-11/30/11
Project Manager – Senior	\$172.80
Client/Server Network Architect	\$165.29
Data Architect	\$131.45
ERP Business Analyst - Intermediate	\$127.72
ERP Business Analyst - Senior	\$150.26
ERP Programmer	\$135.24
Information Services Consultant	\$165.29
Information Systems Training Specialist – Intermediate	\$83.47
Information Systems Training Specialist - Senior	\$112.69
LAN Administrator - Intermediate	\$105.01
LAN Administrator – Senior	\$122.36
LAN/WAN Integrator	\$131.33
Network Engineer - Intermediate	\$88.29
Network Engineer – Senior	\$132.62
PC/LAN Mgmt Analyst - Intermediate	\$82.64
PC/LAN Mgmt Analyst – Senior	\$105.19
Systems Administrator - Intermediate	\$97.67
Systems Administrator - Senior	\$120.21
UNIX Systems Administrator	\$131.95
Applications Programmer	\$78.27
Business Subject Matter Specialist	\$227.87
Chief Information Security Officer	\$181.09
Client/Server Database Manager	\$99.69
Communications Installer	\$53.40
Communications Transmission Engineer	\$93.45
Consultant	\$227.87
Data Architect	\$99.69
Data/Configuration Management Specialist	\$99.69
Engineering Subject Matter Specialist	\$227.87
ERP Business/Architectural Specialist	\$227.87
Information Assurance Development Engineer	\$177.77



Labor Category	06/01/10-11/30/11
Information Assurance Engineer	\$200.72
Information Assurance Network Specialist	\$149.10
Information Assurance Systems/Network Specialist	\$172.05
Information Security Business Analyst	\$126.16
IT Subject Matter Specialist	\$227.87
LAN/WAN/MAN Administrator	\$127.49
Network Control Technician	\$78.36
Network Systems Administrator	\$127.49
Network Systems Manager	\$103.46
Network/Hardware Support Technician	\$70.78
Operations Manager – Data Communications	\$103.46
Operations Manager – Voice Communications	\$103.46
Operations Systems Manager	\$103.46
Operations/Network LAN Administrator	\$93.45
Operations/Technical Support Analyst	\$53.40
Project Engineer	\$93.00
Quality Assurance Specialist	\$75.41
Security Coordinator	\$177.00
Strategic Planner	\$115.14
Systems Analysis and Programming Director	\$115.14
Systems Engineer	\$70.78
Systems Management Technologist	\$93.97
Technical Writer	\$75.41
Telecommunications/Communications Integration Engineer	\$127.49



FUNCTIONAL AREA 3 – NAIC CODE 541513
Computer Facilities Management Services

Labor Category	06/01/10-11/30/11
Project Manager – Senior	\$172.80
Client/Server Support Analyst	\$82.83
Computer Operations Manager	\$112.69
Help Desk Coordinator - Intermediate	\$78.13
Help Desk Coordinator - Senior	\$90.15
Help Desk Manager	\$102.17
Help Desk Support Services Specialist – Intermediate	\$62.10
Help Desk Support Services Specialist - Senior	\$67.54
LAN/WAN Administrator	\$112.69
Network Operations Supervisor	\$125.04
Operations/ Technical Support Manager	\$135.24
PC Products Analyst	\$90.15
PC Systems Specialist	\$82.64
Business Subject Matter Specialist	\$227.87
Chief Information Security Officer	\$181.09
Client/Server Database Manager	\$99.69
Communications Facility Engineer	\$127.49
Communications Installer	\$53.40
Communications Transmission Engineer	\$93.45
Consultant	\$227.87
Data Architect	\$99.69
Electronic Mail Coordinator	\$93.45
Help Desk Specialist	\$51.05
Information Assurance Development Engineer	\$177.77
Information Assurance Engineer	\$200.72
Information Assurance Network Specialist	\$149.10
Information Assurance Systems/Network Specialist	\$172.05
Information Assurance Business Analyst	\$126.16
IT Subject Matter Specialist	\$227.87
LAN/WAN/MAN Administrator	\$127.49
Network Control Technician	\$78.36



Labor Category	06/01/10-11/30/11
Network Systems Administrator	\$127.49
Network Systems Manager	\$103.46
Network/Hardware Support Technician	\$70.78
Operations Manager – Data Communications	\$103.46
Operations Manager – Voice Communications	\$103.46
Operations Systems Manager	\$103.46
Operations/Network LAN Administrator	\$93.45
Operations/Technical Support Analyst	\$53.40
Project Engineer	\$93.00
Quality Assurance Specialist	\$75.41
Security Coordinator	\$177.00
Site Manager	\$103.46
Strategic Planner	\$115.14
Systems Engineer	\$70.78
Telecommunications Network Help Desk	\$51.05
Telecommunications/Communications Integration Engineer	\$127.49
Voice Communications Technician	\$70.78



FUNCTIONAL AREA 4 – NAIC CODE 518210
Data Processing, Hosting and Related Services

Labor Category	06/01/10-11/30/11
Project Manager – Senior	\$172.80
Data Entry Supervisor	\$81.88
Data Warehousing Administrator	\$127.72
Data Warehousing Analyst	\$120.21
Data Warehousing Programmer	\$120.21
Data Warehousing Project Manager	\$135.24
Database Administrator	\$97.67
Database Manager	\$132.99
Web Operations Manager	\$133.30
Applications Programmer	\$78.27
Business Subject Matter Specialist	\$227.87
Chief Information Security Officer	\$181.09
Client/Server Database Manager	\$99.69
Consultant	\$227.87
Data Architect	\$99.69
Data/Configuration Management Specialist	\$99.69
E-Business Manager	\$115.14
Electronic Mail Coordinator	\$93.45
Information Security Business Analyst	\$126.16
IT Subject Matter Specialist	\$227.87
Operations Manager – Data Communications	\$103.46
Operations Manager – Voice Communications	\$103.46
Operations Systems Manager	\$103.46
Operations/Network LAN Administrator	\$93.45
Operations/Technical Support Analyst	\$53.40
Project Engineer	\$93.00
Quality Assurance Specialist	\$75.41
Security Coordinator	\$177.00
Systems Engineer	\$70.78
Web Content Analyst	\$100.68
Web Security Analyst	\$108.97



FUNCTIONAL AREA 5 – NAIC CODE 541519
Other Computer Related Services

Labor Category	06/01/10-11/30/11
Project Manager – Senior	\$172.80
Business Process Consultant	\$178.83
Business Systems Analyst - Intermediate	\$123.22
Business Systems Analyst - Senior	\$131.45
Business Systems Specialist	\$127.72
Data Security Administration Manager	\$125.04
Data Security Analyst - Intermediate	\$98.20
Data Security Analyst - Senior	\$135.96
Disaster Recovery Administrator	\$121.61
Disaster Recovery Analyst	\$112.69
Groupware Specialist	\$105.01
Information Services Consultant	\$152.07
Information Systems Auditor - Intermediate	\$105.17
Information Systems Auditor - Senior	\$145.76
LAN Support Technician - Intermediate	\$82.65
LAN Support Technician - Senior	\$97.67
Network Planning Manager	\$133.30
Business Subject Matter Specialist	\$227.87
Chief Information Security Officer	\$181.09
Consultant	\$227.87
Data Architect	\$99.69
Information Assurance Development Engineer	\$177.77
Information Assurance Engineer	\$193.00
Information Assurance Network Specialist	\$149.10
Information Assurance Systems/Network Specialist	\$172.05
Information Assurance Business Analyst	\$126.16
IT Subject Matter Specialist	\$227.87
Project Engineer	\$93.00
Quality Assurance Specialist	\$75.41
Security Coordinator	\$177.00
Strategic Planner	\$115.14
Systems Engineer	\$70.78
Technical Writer	\$75.41
Test Engineer	\$78.27

Description of Labor Categories**FUNCTIONAL AREA 1 – NAICS CODE 541511
Custom Computer Programming Services**

CLIN 1 - Project Manager – Senior

Responsible for all aspects of the development and implementation of assigned projects and provides a single point of contact for those projects. Takes projects from original concept through final implementation. Interfaces with all areas affected by the project including end users, computer services, and client services. Defines project scope and objectives. Develops detailed work plans, schedules, project estimates, resource plans, and status reports. Conducts project meetings and is responsible for project tracking and analysis. Ensures adherence to quality standards and reviews project deliverables. Manages the integration of vendor tasks and tracks and reviews vendor deliverables. Provides technical and analytical guidance to project team. Recommends and takes action to direct the analysis and solutions of problems.

CLIN 2 – Applications Systems Analyst/Programmer - Intermediate

Under general supervision, formulates and defines system scope and objectives through research and fact-finding to develop or modify moderately complex information systems. Prepares detailed specifications from which programs will be written. Designs, codes, tests, debugs, documents, and maintains those programs. Competent to work on most phases of applications systems analysis and programming activities, but requires instruction and guidance in other phases.

CLIN 3 – Applications Systems Analyst/Programmer - Senior

Under general direction, formulates and defines system scope and objectives. Devises or modifies procedures to solve complex problems considering computer equipment capacity and limitations, operating time, and form of desired results. Prepares detailed specifications from which programs will be written. Designs, codes, tests, debugs, and documents those programs. Competent to work at the highest technical level of all phases of applications systems analysis and programming activities. May be responsible for completion of a phase of a project. Regularly provides guidance and training to less-experienced analyst/programmers.

CLIN 4 – Database Analyst/Programmer - Intermediate

Under general supervision, designs, implements and maintains moderately complex databases. Maintains database dictionaries and integration of systems through database design. Competent to work on most phases of database administration but may require some instruction and guidance in other phases. Requires two years experience in the field.

CLIN 5 – Database Analyst/Programmer - Senior

Under general direction, designs, implements and maintains complex database with respect to JCL, access methods, access time, device allocation, validation checks, organization, protection and security, documentation and statistical methods. Includes maintenance of database dictionaries, overall monitoring of standards and procedures and integration of systems through database design. Competent to work at the highest level of all phases of database management. Requires three years experience in the field.

CLIN 6 – Documentation Specialist - Intermediate

Under general supervision, prepares and/or maintains systems, programming, and operations documentation, including user manuals. Maintains a current internal documentation library. Competent to work on most phases of documentation.

CLIN 7 – Documentation Specialist - Senior

Under general supervision, is responsible for preparing and/or maintaining systems, programming, and operations documentation, procedures, and methods including user manuals and reference manuals. Maintains a current internal documentation library. Provides or coordinates special documentation services as required. Competent to work at the highest level of all phases of documentation. May act as project leader for large positions.

CLIN 8 – Graphics Specialist

Responsible for graphics design and use, operation, and setup of computer graphic systems for business communications. Executes graphic projects and assists in coordination of all graphic production scheduling. Coordinates production support with outside vendors, as needed. Ensures that graphic projects are completed on time, within budget, and to user's satisfaction. Interfaces with users to determine scope of project and best graphic medium. Trains other personnel in proper use of computer graphic equipment. Troubleshoots computer equipment problems and performs minor preventive maintenance. Frequently reports to a department manager or information systems management.

CLIN 9 – Quality Assurance Analyst - Intermediate

Under general supervision, carries out procedures to ensure that all information systems, products and services meet minimum organization standards and end-user requirements. Thoroughly tests software to ensure proper operation and freedom from defects. Documents and works to resolve all problems. Reports progress on problem resolution to management. Devises improvements to current procedures and develops models of possible future configurations. Performs workflow analysis and recommends quality improvements. Frequently reports to a Quality Assurance Manager.

CLIN 10 – Quality Assurance Analyst - Senior

Under general direction, carries out procedures to ensure that all information systems, products and services meet organization standards and end-user requirements. Performs and leads tests of software to ensure proper operation and freedom from defects. May create test data for applications. Documents and works to resolve all complex problems. Reports progress on problem resolution to management. Devises improvements to current procedures and develops models of possible future configurations. Acts as information resource about assigned areas to technical writers and other Quality Assurance Analysts. Performs complex workflow analysis and recommends quality improvements. Frequently reports to a Quality Assurance Manager.

CLIN 11 – Software Architect

Works independently designing and developing new software products or major enhancements to existing software. May lead a large development team in the design of highly complex software systems. Acts as highest-level technical expert, addressing problems of systems integration, compatibility, and multiple platforms. Responsible for project completion. Performs feasibility analysis on potential future projects to management.

CLIN 12 – Software Developer - Intermediate

Under general supervision, develops codes, tests, and debugs new software or enhancements to existing software. Has good understanding of business applications. Works with technical

staff to understand problems with software and resolve them. Resolves customer complaints with software and responds to suggestions for improvements and enhancements. May assist in development of software user manuals. Requires two years experience in the field.

CLIN 13 – Software Developer - Senior

Under general direction, participates as high-level technical expert in design development, coding, testing, and debugging new software or significant enhancements to existing software. Works with technical staff to understand problems with software and develops specifications to resolve them. Resolves customer complaints and responds to suggestions for improvements and enhancements. Participates in the development of software user manuals. May act as team leader on less complex projects. Assists in training less experienced software development staff. Requires five years experience in the field.

CLIN 14 – Software Systems Engineer - Intermediate

Under general supervision, works from specifications to develop or modify moderately complex software programming applications. Assists with design, coding, benchmark testing, debugging, and documentation of programs. Applications generally deal with utility programs, position control language, macros, subroutines, and other control modules. Competent to work on most phases of software systems programming applications, but requires instruction and guidance in other phases.

CLIN 15 – Software Systems Engineer –Senior

Under general direction, formulates and defines specifications for complex operating software programming applications or modifies/maintains complex existing applications using engineering releases and utilities from the manufacturer. Designs, codes, tests, debugs, and documents those programs. Responsible for applications dealing with the overall operating system, such as sophisticated file maintenance routines, large telecommunications networks, computer accounting, and advanced mathematical/scientific software packages. Competent to work at this highest technical level on all phases of software systems programming applications. May have responsibility for the evaluation of new and existing software products. May assist other systems programmers to effectively utilize the system's technical software.

CLIN 16 – Technical Editor

Responsible for content of technical documentation. Checks author's document for spelling, grammar and content problems (e.g., missing instructions or sections; redundant or unnecessary sections). Accuracy of content may fall under this position or the programmer, depending on the expertise of the editor. Ensures that documents follow the style laid out in the organization's style guide. May also be responsible for maintaining the style guide. Suggests revisions to the style guide as appropriate. Editor is often a technical writer who has moved to this position. Note: This description is for a technical editor in a large software house or an editor in a technical lab, which produces papers for publication. Newsletter, newspaper, or magazine editors should not be matched to this position.

CLIN 17 – Web Software Developer

Designs, develops, troubleshoots, debugs, and implements software code (such as HTML, CGI, and JavaScript) for a component 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. Integrates web applications with backend databases. Deploys large web-based transaction systems using application servers. Researches, tests, builds, and coordinates the integration of new products per production and client requirements. Requires strong navigation and site-design instincts.

CLIN 20 - Applications Programmer

Devises or modifies procedures to solve complex problems considering computer equipment capacity and limitations, operating time, and form of desired results. Designs, codes, tests, debugs, and documents.

CLIN 21 - Business Subject Matter Specialist

Provides technical knowledge and analysis of highly specialized applications and operational environments, high-level functional systems analysis, design, integration, documentation and implementation advice on exceptionally complex problems that need extensive knowledge of the subject matter for effective implementation. Participates as needed in all phases of software development with emphasis on the planning, analysis, testing, integration, documentation, and presentation phases.

CLIN 22 - Chief Information Security Officer

Ensures that all information systems are functional and secure.

CLIN 23 - Client/Server Database Manager

Projects long-range requirements for client/server database administration in conjunction with other managers in the information systems function as well as business function managers. Prepares activity and progress reports regarding the client/server database management section.

CLIN 24 - Communications Facility Engineer:

Provides technical direction and engineering knowledge for communications systems infrastructure activities, including planning, designing, and implementing communications infrastructure requirements for buildings and systems. Ensures that adequate and appropriate planning is provided to direct building architects and planners in building communications spaces and media pathways meet industry standards.

CLIN 25 - Communications Installer

Assists in the planning, design, and implementation of communications networks. Responsible for providing assistance and technical support for network design activities. Assists in the review/assessment of user needs. Performs feasibility studies for small projects. Assists in the evaluation and selection of equipment.

CLIN 26 - Communications Transmission Engineer

Provides technical direction and engineering knowledge for communications activities including planning, designing, installing and maintaining large communications networks. Develops, operates, and maintains voice, wireless, video, and data communications systems. Provides complex engineering or analytical tasks and activities associated with one or more technical areas within the communications function.

CLIN 27 – Consultant

Works with end user groups to evaluate and solve technical problems. Evaluates existing systems and/or user needs to analyze, design, recommend, and implement system changes.

CLIN 28 - Data Architect

Designs and builds relational databases. Develops strategies for data acquisitions, archive recovery, and implementation of a database. Works in a data warehouse environment, which includes data design, database architecture, metadata and repository creation. Translates business needs into long-term architecture solutions. Defines, designs, and builds dimensional databases. Develops data warehousing blueprints, evaluating hardware and software platforms, and integrating systems. Evaluates reusability of current data for additional analyses. Reviews

object and data models and the metadata repository to structure the data for better management and quicker access.

CLIN 29 - Data/Configuration Management Specialist

Provides configuration management planning. Describes provisions for configuration identification, change control, configuration status accounting, and configuration audits. Regulates the change process so that only approved and validated changes are incorporated into product documents and related software.

CLIN 30 - Engineering Subject Matter Specialist

Provides technical knowledge and analysis of highly specialized applications and operational environment, high-level functional systems analysis, design, integration, documentation, and implementation advice on exceptionally complex problems that necessitate high-level knowledge of the subject matter for effective implementation. Participates as needed in all phases of software development with emphasis on the planning, analysis, modeling, simulation, testing, integration, documentation and presentation phases.

CLIN 31 - Information Assurance Development Engineer

Analyzes and defines security requirement for computer systems which may include mainframes, workstations, and personal computers. Designs, develops, engineers, and implements solutions that meet security requirements. Provides integration and implementation of the computer system security solution.

CLIN 32 - Information Assurance Engineer

Establishes and satisfies complex system-wide information security requirements based upon the analysis of user, policy, regulatory, and resource demands. Supports customers at the highest levels in the development and implementation of doctrine and policies. Applies know-how to government and commercial common user systems, as well as to dedicated special purpose systems requiring specialized security features and procedures.

CLIN 33 - Information Assurance Network Specialist

Analyzes general information assurance-related technical problems and provides basic engineering and technical support in solving these problems. Designs, develops, engineers, and implements solutions that meet network security requirements. Performs vulnerability/risk analyses of computer systems and applications during all phases of the system development life cycle.

CLIN 34 - Information Assurance Systems/Network Specialist

Installs, configures and maintains organization's operating systems. Analyzes and resolves problems associated with server hardware, NT, applications software. Detects, diagnoses, and reports NT related problems on both NT server and NT desktop systems. Performs a wide variety of tasks in software/hardware maintenance and operational support of NT Server systems.

CLIN 35 - Information Security Business Analyst

Determines enterprise information security standards. Develops and implements information security standards and procedures. Ensures that all information systems are functional and secure.

CLIN 36 -IT Subject Matter Specialist

Provides extremely high-level subject matter proficiency for work described in the task. Provides advanced technical knowledge and analysis of highly specialized applications and operational environment, high-level functional systems analysis, design, integration,

documentation, training, and implementation advice on complex problems that require doctorate level knowledge of the subject matter for effective implementation.

CLIN 37 - Project Engineer

Manages long-term IT engineering projects. Performs engineering design evaluations and works to complete projects within budget and scheduling restraints. Develops, implements, and monitors information systems policies and controls to ensure data accuracy, security, and regulatory compliance. Reviews reports of computer and peripheral equipment production, malfunction, and maintenance to determine and address problems.

CLIN 38 - Quality Assurance Specialist

Provides development of project Software Quality Assurance Plan and the implementation of procedures that conforms to the requirements of the contract. Provides an independent assessment of how the project's software development process is being implemented relative to the defined process and recommends methods to optimize the organization's process.

CLIN 39 - Security Coordinator

Coordinates, develops, and evaluates security programs for an organization.

CLIN 40 - Strategic Planner

Provides strategic planning of large projects or a significant segment of a strategic planning portion of a large complex project. Provides the overall approach to clarify mission statements so they can be used as springboards in envisioning their desired future. Assists in developing mission and vision statements, subsequent goal delineation, provides guidance for building operational plans and specifying measurable outcomes to include capital outlay planning efforts in a consolidated strategic planning process and prioritizes those initiatives.

CLIN 41 - Systems Engineer

Performs a variety of systems engineering tasks and activities that are broad in nature and are concerned with major systems design, integration, and implementation, including personnel, hardware, software, budgetary, and support facilities and/or equipment. Provides quality assurance review and the evaluation of new and existing software products.

CLIN 42 - Technical Writer

Writes a variety of technical articles, reports, brochures, and/or manuals for documentation for a wide range of uses. Coordinates the display of graphics and the production of the document.

CLIN 43 - Web Content Analyst

Provides for development and content that will motivate and entertain users so that they regularly access the website and utilize it as a major source for information and decision-making. Provides managing/performing website editorial activities including gathering and researching information that enhances the value of the site.

CLIN 44 - Web Security Analyst

Performs all procedures necessary to ensure the safety of the organization's website and transactions across the Internet/intranet. Applies Internet firewall technologies to maintain security. Ensures that the user community understands and adheres to necessary procedures to maintain security. Updates and deletes users, monitors and performs follow-up on compliance violations, and develops security policies, practices, and guidelines.

FUNCTIONAL AREA 2 – NAICS CODE 541512

Computer Systems Design Services

CLIN 1 - Project Manager – Senior

Responsible for all aspects of the development and implementation of assigned projects and provides a single point of contact for those projects. Takes projects from original concept through final implementation. Interfaces with all areas affected by the project including end users, computer services, and client services. Defines project scope and objectives. Develops detailed work plans, schedules, project estimates, resource plans, and status reports. Conducts project meetings and is responsible for project tracking and analysis. Ensures adherence to quality standards and reviews project deliverables. Manages the integration of vendor tasks and tracks and reviews vendor deliverables. Provides technical and analytical guidance to project team. Recommends and takes action to direct the analysis and solutions of problems.

CLIN 2 - Client/Server Network Architect

Top-level technical expert responsible for design and development of a client/server environment. Develops strategy of client/server system and the design infrastructure necessary to support that strategy. Advises on selection of technological purchases with regards to processing, data storage, data access, and applications development. Sets standards for the client/server relational database structure for the organization (SQL, ORACLE, SYBASE, etc.). Advises of feasibility of potential future projects to management.

CLIN 3 – Data Architect

Under general supervision, works in a data warehouse environment, which includes data design, database architecture, metadata, and repository creation. Translates business needs into long-term architecture solutions. Defines, designs, and builds dimensional databases. Responsible for developing data warehousing blueprints, evaluating hardware and software platforms, and integrating systems. Evaluates reusability of current data for additional analyses. Conducts data cleaning to rid the system of old, unused, or duplicate data. Reviews object and data models and the metadata repository to structure the data for better management and quicker access. Typically requires two to four years of experience.

CLIN 4 – ERP Business Analyst - Intermediate

Under general supervision, serves as subject matter expert associated with content, processes, and procedures associated with enterprise applications. Applies functional knowledge to design and customize workflow systems that provide seamless integration for client/server applications. Writes functional requirements, develops test plans, and works with production issues.

CLIN 5 – ERP Business Analyst - Senior

Under general direction, serves as senior subject matter expert associated with content, processes, and procedures associated with ERP. Defines detailed requirements, analyzes business needs, and validates solutions with the client. Details requirements through product development and other functions to support the project team. Monitors other business analysts in software development methods and processes and implementation of those methods. Evaluates development projects and assists in tailoring the development process to meet the project needs.

CLIN 6 – ERP Programmer

Under general supervision, works primarily in ERP client/server enterprise application. Designs and develops all aspects of data conversion. Builds application tables, panels, and reports. Codes individual modules and complex functions. Develops application tables, panels, and reports for projects. Responsible for software integration and external interface development. Troubleshoots and resolves testing issues. Responsible for technical documentation.

CLIN 7 – Information Services Consultant

Top-level technical expert supporting unlimited end user groups. Works with user groups to solve business problems with available technology including hardware, software, databases, and peripherals. Requires high level of diverse technical experience related to studying and analyzing systems needs, systems development, systems process analysis, design, and re-engineering. Has skills and experience related to business management, systems engineering, operations research, and management engineering. Typically requires specialization in particular software or business application utilized in an end user environment. Keeps abreast of technological developments and applications.

CLIN 8 – Information Systems Training Specialist - Intermediate

Under general supervision, organizes and conducts moderately complex training and educational programs for information systems or user personnel. Maintains records of training activities, employee progress, and program effectiveness. Competent to work on most phases of information systems training.

CLIN 9 – Information Systems Training Specialist - Senior

Under general direction, organizes, prepares, and conducts complex training and educational programs for information systems or user personnel. May design and develop in-house programs. Maintains records of training activities, employee progress, and program effectiveness. Competent to work at the highest level of all phases of information systems training.

CLIN 10 – LAN Administrator - Intermediate

Under general supervision, responsible for the acquisition, installation, maintenance, and usage of the organization's local area network. Manages LAN performance and maintains LAN security. Ensures that security procedures are implemented and enforced. Installs all network software. Evaluates, develops and maintains telecommunications systems. Troubleshoots LAN problems. Establishes and implements LAN policies, procedures, and standards and ensures their conformance with information systems and organization objectives. Trains users on LAN operation. Typically requires two to four years of experience. Frequently reports to a PC support manager or Senior LAN Administrator.

CLIN 11 – LAN Administrator - Senior

Under general direction, responsible for administration and day-to-day operation of organization's local area network (LAN). Provides integrated team support and maintenance of LAN hardware and software. Maintains integrity of the LAN hardware and software. Installs LAN software upgrades, including planning and scheduling, testing and coordination. Studies vendor products to determine those which best meet organization needs; assists in presentation of information to management resulting in purchase, and installation of hardware, software, and telecommunications equipment. Performs LAN security procedures, including implementing login requests. Evaluates new products and technologies to determine impact on existing system configurations. Prepares proposals, cot/benefit analyses, and feasibility studies. Provides liaison support between the PC/LAN team, vendors and internal support

group as needed. Typically requires five to seven years of experience. Frequently reports to an information systems executive.

CLIN 12 – LAN/WAN Integrator

Responsible for the overall integration of the enterprise-wide network including the planning, design, installation, maintenance, management, and coordination of the corporate LAN/WAN (may include local, metropolitan, and wide area networks). Has responsibility for technical architecture and recommendations related to LAN/WAN. Is typically a top-level technical contributor with advanced knowledge and experience in the area of local and wide area networking, communications, and related hardware/software. Maintains high level of technical expertise and studies vendor products to determine those which best meet organization needs. Presents information to management, which may result in the purchase and installation of hardware, software, and telecommunications equipment. Recommends network security procedures and policies. Knowledgeable in a multi-platform operating environment. May work with Voce and/or Data Communications Analysts.

CLIN 13 – Network Engineer - Intermediate

Under general supervision, oversees the purchase, installation, and support of network communications, including LAN/WAN systems. Works on problems of diverse scope where analysis of situation requires evaluation and judgment. Responsible for evaluating current systems. Assists in the planning of large-scale systems projects through vendor comparison and cost studies. Requires thorough knowledge of LAN/WAN systems, networks, and applications. Typically requires two to five years of experience.

CLIN 14 – Network Engineer - Senior

Under general direction, manages the purchase, installation, and support of network communications, including LAN/WAN systems. Responsible for evaluating current systems. Works on complex problems where analysis of situation requires in-depth evaluation of various factors. Plans large-scale systems projects through vendor comparison and cost studies. Provides work leadership and training to lower level network engineers. Requires expert knowledge of LAN/WAN systems, networks, and applications. Typically requires at least five years of experience.

CLIN 15 – PC/LAN Management Analyst - Intermediate

Under general supervision, works closely with business and management and staff on LAN support, network design, and configuration in a multi-server environment. Responsible for the installation/configuration and support of client servers, application support software, and implementation of new business software applications. Participates with client in the installation/configuration of equipment and software. Analyzes and coordinates resolution of network problems. Provides technical support and guidelines to client and systems areas through documentation. Requires experience with Token Ring.

CLIN 16 – PC/LAN Management Analyst - Senior

Under general direction, provides consultation to business area management and staff at the highest technical level for all aspects of PC/LAN design and configuration in a multi-server environment. Plans and coordinates the installation of new or modified Local Area Networks and installs and coordinates the resolution of network problems or malfunctions. Provides technical support and guidelines to client and systems areas through documentation. Requires experience with Token Ring.

CLIN 17 – Systems Administrator - Intermediate

Under general supervision, responsible for installing, configuring, and maintaining operating system workstations and servers, including web servers, in support of business processing

requirements. Performs software installations and upgrades to operating systems and layered software packages. Schedules installations and upgrades and maintains them in accordance with established IT policies and procedures. Monitors and tunes the system to achieve optimum performance levels. Ensures workstation/server data integrity by evaluating, implementing, and managing appropriate software and hardware solutions. Ensures data/media recoverability by implementing a schedule of system backups and database archive operations. Supports media management through internal methods and procedures or through offsite storage and retrieval services. Develops and promotes standard operating procedures. Conducts routine hardware and software audits of workstations and servers to ensure compliance with established standards, policies, and configuration guidelines. Develops and maintains a comprehensive operating system hardware and software configuration database/library of all supporting documentation.

CLIN 18 – Systems Administrator - Senior

Under general direction, responsible for activities related to system administration. Assigns personnel to various projects, directs their activities, and evaluates their work. Ensures long-term requirements of systems operations and administration are included in the overall information systems planning of the organization. Responsible for the installation, maintenance, configuration, and integrity of computer software. Implements operating system enhancements that will improve the reliability and performance of the system.

CLIN 19 – UNIX Systems Administrator

Responsible for the installation, configuration, and maintenance of UNIX operating systems. Recognizes and troubleshoots problems with server hardware and applications software. Establishes and documents standards and procedures for management review. Requires extensive knowledge of computer operations and familiarity with shell and kernel programming. Typically requires two to four years of experience.

CLIN 22 - Applications Programmer

Devises or modifies procedures to solve complex problems considering computer equipment capacity and limitations, operating time, and form of desired results. Designs, codes, tests, debugs, and documents.

CLIN 23 - Business Subject Matter Specialist

Provides technical knowledge and analysis of highly specialized applications and operational environments, high-level functional systems analysis, design, integration, documentation and implementation advice on exceptionally complex problems that need extensive knowledge of the subject matter for effective implementation. Participates as needed in all phases of software development with emphasis on the planning, analysis, testing, integration, documentation, and presentation phases.

CLIN 24 - Chief Information Security Officer

Ensures that all information systems are functional and secure.

CLIN 25 - Client/Server Database Manager

Projects long-range requirements for client/server database administration in conjunction with other managers in the information systems function as well as business function managers. Prepares activity and progress reports regarding the client/server database management section.

CLIN 26 - Communications Installer

Assists in the planning, design, and implementation of communications networks. Responsible for providing assistance and technical support for network design activities. Assists in the

review/assessment of user needs. Performs feasibility studies for small projects. Assists in the evaluation and selection of equipment.

CLIN 27 - Communications Transmission Engineer

Provides technical direction and engineering knowledge for communications activities including planning, designing, installing and maintaining large communications networks. Develops, operates, and maintains voice, wireless, video, and data communications systems. Provides complex engineering or analytical tasks and activities associated with one or more technical areas within the communications function.

CLIN 28 – Consultant

Works with end user groups to evaluate and solve technical problems. Evaluates existing systems and/or user needs to analyze, design, recommend, and implement system changes.

CLIN 29 - Data Architect

Designs and builds relational databases. Develops strategies for data acquisitions, archive recovery, and implementation of a database. Works in a data warehouse environment, which includes data design, database architecture, metadata and repository creation. Translates business needs into long-term architecture solutions. Defines, designs, and builds dimensional databases. Develops data warehousing blueprints, evaluating hardware and software platforms, and integrating systems. Evaluates reusability of current data for additional analyses. Reviews object and data models and the metadata repository to structure the data for better management and quicker access.

CLIN 30 - Data/Configuration Management Specialist

Provides configuration management planning. Describes provisions for configuration identification, change control, configuration status accounting, and configuration audits. Regulates the change process so that only approved and validated changes are incorporated into product documents and related software.

CLIN 31 - Engineering Subject Matter Specialist

Provides technical knowledge and analysis of highly specialized applications and operational environment, high-level functional systems analysis, design, integration, documentation, and implementation advice on exceptionally complex problems that necessitate high-level knowledge of the subject matter for effective implementation. Participates as needed in all phases of software development with emphasis on the planning, analysis, modeling, simulation, testing, integration, documentation and presentation phases.

CLIN 32 - ERP Business/Architectural Specialist

Adapts functional business requirements and processes to technical solutions based upon comprehensive enterprise application solution sets. Enterprise resource planning and management processes, including but not limited to: knowledge management, investment analysis, data warehousing, e-commerce, return on investment analysis, human resource analysis, material management and logistics, supply chain management, procurement, ordering, manufacturing, decision support, and information dissemination.

CLIN 33 - Information Assurance Development Engineer

Analyzes and defines security requirement for computer systems which may include mainframes, workstations, and personal computers. Designs, develops, engineers, and implements solutions that meet security requirements. Provides integration and implementation of the computer system security solution.

CLIN 34 - Information Assurance Engineer

Establishes and satisfies complex system-wide information security requirements based upon the analysis of user, policy, regulatory, and resource demands. Supports customers at the highest levels in the development and implementation of doctrine and policies. Applies know-how to government and commercial common user systems, as well as to dedicated special purpose systems requiring specialized security features and procedures.

CLIN 35 - Information Assurance Network Specialist

Analyzes general information assurance-related technical problems and provides basic engineering and technical support in solving these problems. Designs, develops, engineers, and implements solutions that meet network security requirements. Performs vulnerability/risk analyses of computer systems and applications during all phases of the system development life cycle.

CLIN 36 - Information Assurance Systems/Network Specialist

Installs, configures and maintains organization's operating systems. Analyzes and resolves problems associated with server hardware, NT, applications software. Detects, diagnoses, and reports NT related problems on both NT server and NT desktop systems. Performs a wide variety of tasks in software/hardware maintenance and operational support of NT Server systems.

CLIN 37 - Information Security Business Analyst

Determines enterprise information security standards. Develops and implements information security standards and procedures. Ensures that all information systems are functional and secure.

CLIN 38 - IT Subject Matter Specialist

Provides extremely high-level subject matter proficiency for work described in the task. Provides advanced technical knowledge and analysis of highly specialized applications and operational environment, high-level functional systems analysis, design, integration, documentation, training, and implementation advice on complex problems that require doctorate level knowledge of the subject matter for effective implementation.

CLIN 39 - LAN/WAN Administrator

Monitors LAN, WAN, and servers. Provides batch monitoring, tape back-up, and restoration. Administers mail system and implements new database architecture. Monitors and conducts performance evaluation of networks. Supports, installs, maintains, and troubleshoots all local area and wide area networking devices and related software for branch offices and internal and external networks.

CLIN 40 - Network Control Technician

Tests and analyzes all elements of complex network facilities (including power, software, communications devices, lines, modems, and terminals). Monitors and controls the performance and status of the network resources. Utilizes software and hardware tools and identifies and diagnoses complex problems and factors affecting network performance.

CLIN 41 - Network Systems Administrator

Provides system administration of Network, Web, and/or communication systems, including Local Area Network (LAN) and Wide Area Network (WAN) systems, involving network security. Prepares technical implementation plans that provide integrated solutions including actions, milestones, timelines and critical paths required for complete solutions.

CLIN 42 - Network Systems Manager

Supervises all personnel engaged in the operation and support of network facilities, including all communications equipment in large scale or multi-shift operations. Supervises complex operations that involve two or more additional functions such as, but not limited to, network operations, systems security, systems software support, and production support activities.

CLIN 43 - Network/Hardware Support Technician

Monitors and responds to hardware, software, and network problems. Provides the routine testing and analysis of all elements of the network facilities (including power, software, communications machinery, lines, modems, and terminals). Monitors and controls the performance and status of the network resources.

CLIN 44 - Operations Manager - Data Communications

Manages all aspects of the daily operation for data network(s) in either a stand-alone data network environment in a voice and data separated network environment. Develops project plans for the implementation of new telecommunications technology and systems. Directs technical analysis of complex software, hardware, and transmission systems. Coordinates with vendors involved in providing communication activities.

CLIN 45 - Operations Manager - Voice Communications

Manages all aspects of the daily operation for voice network(s) in either a stand-alone voice network OR in a voice and data separated network environment. Develops project plans for the implementation of new telecommunications technology and systems. Directs technical analysis of complex software, hardware, and transmission systems.

CLIN 46 - Operations Systems Manager

Provides assistance and oversight for all information systems operations activities, including computer and telecommunications/communications operations, data entry, data control, operations support, operating systems programming, system security policy procedures, and/or web strategy and operations. Provides input to policy level discussions regarding standards and budget constraints.

CLIN 47 - Operations/Network LAN Administrator

Supports, monitors, tests, and troubleshoots hardware and software problems pertaining to LAN. Recommends and schedules repairs. Provides end users support for all LAN- based applications. Installs and configures workstations.

CLIN 48 - Operations/Technical Support Analyst

Provides technical guidance for directing and monitoring information systems operations. Implements machine modifications to increase the capacity of the system. Directs compilation of records and reports concerning production, machine malfunctioning and maintenance.

CLIN 49 - Project Engineer

Manages long-term IT engineering projects. Performs engineering design evaluations and works to complete projects within budget and scheduling restraints. Develops, implements, and monitors information systems policies and controls to ensure data accuracy, security, and regulatory compliance. Reviews reports of computer and peripheral equipment production, malfunction, and maintenance to determine and address problems.

CLIN 50 - Quality Assurance Specialist

Provides development of project Software Quality Assurance Plan and the implementation of procedures that conforms to the requirements of the contract. Provides an independent



assessment of how the project's software development process is being implemented relative to the defined process and recommends methods to optimize the organization's process.

CLIN 51 - Security Coordinator

Coordinates, develops, and evaluates security programs for an organization.

CLIN 52 - Strategic Planner

Provides strategic planning of large projects or a significant segment of a strategic planning portion of a large complex project. Provides the overall approach to clarify mission statements so they can be used as springboards in envisioning their desired future. Assists in developing mission and vision statements, subsequent goal delineation, provides guidance for building operational plans and specifying measurable outcomes to include capital outlay planning efforts in a consolidated strategic planning process and prioritizes those initiatives.

CLIN 53 - Systems Analysis and Programming Director

Develops software within an organization. Directs the software engineering function in developing, releasing, and maintaining software applications/operating systems according to business needs.

CLIN 54 - Systems Engineer

Performs a variety of systems engineering tasks and activities that are broad in nature and are concerned with major systems design, integration, and implementation, including personnel, hardware, software, budgetary, and support facilities and/or equipment. Provides quality assurance review and the evaluation of new and existing software products.

CLIN 55 - Systems Management Technologist

Analyzes, develops, operates, and maintains software libraries and catalogs. Provides support and direction for user groups in the use of the software/hardware systems and programs to support an integrated system.

CLIN 56 - Technical Writer

Writes a variety of technical articles, reports, brochures, and/or manuals for documentation for a wide range of uses. Coordinates the display of graphics and the production of the document.

CLIN 57 - Telecommunications/Communications Integration Engineer

Provides technical direction and analysis for telecommunication activities, including planning, designing, integrating, installing and maintaining large-scale telecommunications/communications networks and services with computer systems. Applies telecommunications/communications engineering principles and theory to propose design and configuration alternatives. Analyzes network performance, usage and traffic flows, accesses and interfaces, transmission techniques, and protocols to interface with computer systems.

FUNCTIONAL AREA 3 – NAICS CODE 541513

Computer Facilities Management Services

CLIN 1 - Project Manager – Senior

Responsible for all aspects of the development and implementation of assigned projects and provides a single point of contact for those projects. Takes projects from original concept through final implementation. Interfaces with all areas affected by the project including end users, computer services, and client services. Defines project scope and objectives. Develops detailed work plans, schedules, project estimates, resource plans, and status reports. Conducts project meetings and is responsible for project tracking and analysis. Ensures adherence to quality standards and reviews project deliverables. Manages the integration of vendor tasks and tracks and reviews vendor deliverables. Provides technical and analytical guidance to project team. Recommends and takes action to direct the analysis and solutions of problems.

CLIN 2 – Client/Server Support Analyst

Under general supervision, assists with personal computer operating systems software and communication system software. Designs, tests, and maintains personal computer systems. Responsible for analyzing and solving personal computer-related problems. Responsible for security, integrity, and reliability of personal computer systems. Tests and integrates new hardware, systems and modifications to existing equipment and systems. Performs research/investigations, analysis, design, testing, and installation of supported hardware and software. Schedules installation of new hardware and software and modifications to existing systems. Monitors performance of hardware and its capacity in all assigned locations. Recommends and implements enhancements to existing hardware and systems.

CLIN 3 – Computer Operations Manager

Responsible for all activities relating to the operation of centralized data processing equipment and peripheral information systems equipment. Establishes detailed schedules for the utilization of all equipment in the computer operations section to obtain maximum utilization. Assigns personnel to various operations and directs their activities. Reviews and evaluates work and prepares performance reports. Confers with and advises subordinates on administrative policies and procedures, technical problems, priorities, and methods. Consults with personnel in other information systems sections to coordinate activities. Prepares activity and progress reports regarding the computer operations section. Frequently reports to a Director of Information Systems Operations.

CLIN 4 – Help Desk Coordinator - Intermediate

Under general supervision, responds to and diagnoses problems through discussions with users. Includes problem recognition, research, isolation, and resolution steps. Typically is able to resolve less complex problems immediately, while more complex problems are assigned to senior level support. May involve use of problem management database and help desk systems.

CLIN 5 – Help Desk Coordinator - Senior

Under general direction, responsible for ensuring the timely process through which problems are controlled. Includes problem recognition, research, isolation, resolution, and follow-up steps. Requires experience and understanding of MIS environment. Typically involves use of problem management database and help desk system. May provide guidance/training for less-experienced personnel.

CLIN 6 – Help Desk Manager

Has overall responsibility for help desk operations associated with the identification, prioritization and resolution of reported problems. Ensures that all phases of help desk support are properly coordinated, monitored, logged, tracked and resolved appropriately. May maintain responsibility for development, maintenance and integrity of help desk software. Requires 3 years experience in the field.

CLIN 7 – Help Desk Support Services Specialist - Intermediate

Under general supervision, provides second-tier support to end users for either PC, server, or mainframe applications and hardware. Handles problems that the first-tier of help desk support is unable to resolve. May interact with network services, software systems engineering, and/or applications development to restore service and/or identify and correct core problem. Simulates or recreates user problems to resolve operating difficulties. Recommends systems modifications to reduce user problems. Maintains currency and high level of technical skill in field of expertise. Escalates more complex problems to senior level.

CLIN 8 – Help Desk Support Services Specialist - Senior

Under general direction, provides second-tier support to end users for either PC, server, or mainframe applications and hardware. Handles problems that the first-tier of help desk support is unable to resolve. May interact with network services, software systems engineering, and/or applications development to restore service and/or identify and correct core problem. Simulates or recreates user problems to resolve operating difficulties. Recommends systems modifications to reduce user problems. Maintains currency and highest level of technical skill in field of expertise.

CLIN 9 – LAN/WAN Administrator

Monitors LAN, WAN, and servers. Provides batch monitoring, tape back-up, and restoration. Responsibilities include performing data configuration and installation of routers and firewalls. Administers mail system and implements new database architecture. Monitors and conducts performance evaluation of networks. Supports, installs, maintains, and troubleshoots all local area and wide area networking devices and related software for branch offices and internal and external networks.

CLIN 10 – Network Operations Supervisor

Provides first level guidance/direction (either as a full-time supervisory position or on a project management basis) to network operation and maintenance analysts, technicians, and/or engineers. Performs technical analysis of complex software, hardware, and transmission facility using various diagnostic tools in support of efficient network operations. Provides guidance/direction for engineering efforts and test and evaluation programs. Performs on-site engineering when required. Typically requires five years of experience in operations, maintenance, and sustained engineering of LAN to WAN internetworking. Frequently reports to a Regional Manager or Operations Manager.

CLIN 11 – Operations/Technical Support Manager

Responsible for all activities relating to technical guidance for planning, directing, and monitoring information systems operations. Plans and recommends machine modifications or additional equipment to increase the capacity of the system. Prepares operational cost estimates for current and proposed projects. Evaluates vendor proposals for purchases of hardware. May manage related outsourcing contracts and service levels. Directs compilation of records and reports concerning production, machine malfunctioning, and maintenance. May advise or consult on organizational, procedural, and workflow plans, methods, and procedures analysis. Analyzes the results of workflow plans, monitors the operating system(s)

and recommends changes to improve processing and utilization. May have departmental staff responsibility. Frequently reports to an Information Systems Operations Manager or Director of Information Systems Operations.

CLIN 12 – PC Products Analyst

Under general supervision, analyzes and evaluates microcomputer products and systems available in the marketplace. Analyzes such products for compatibility, expandability, and ease of use and support. Recommends to management the support or nonsupport of evaluated products. Participates in the development and customization of products. Designs application options/screens compatible with mainframe applications. Prepares product development documentation regarding use of product. Frequently reports to a PC Support Manager.

CLIN 13 – PC Systems Specialist

Under general supervision, performs analytical, technical, and administrative work in the planning, design, and installation of new and existing personal computer systems. Works on moderately complex applications. Confers with end users to determine types of hardware and software required. Writes programs to fulfill requirements or selects appropriate off-the-shelf software and modifies to suit. May maintain or utilize telecommunications protocols. Installs new hardware and maintains existing hardware. Trains end users in use of equipment and software. Frequently reports to a PC Support Manager.

CLIN 16 - Business Subject Matter Specialist

Provides technical knowledge and analysis of highly specialized applications and operational environments, high-level functional systems analysis, design, integration, documentation and implementation advice on exceptionally complex problems that need extensive knowledge of the subject matter for effective implementation. Participates as needed in all phases of software development with emphasis on the planning, analysis, testing, integration, documentation, and presentation phases.

CLIN 17 - Chief Information Security Officer

Ensures that all information systems are functional and secure.

CLIN 18 - Client/Server Database Manager

Projects long-range requirements for client/server database administration in conjunction with other managers in the information systems function as well as business function managers. Prepares activity and progress reports regarding the client/server database management section.

CLIN 19 - Communications Facility Engineer

Provides technical direction and engineering knowledge for communications systems infrastructure activities, including planning, designing, and implementing communications infrastructure requirements for buildings and systems. Ensures that adequate and appropriate planning is provided to direct building architects and planners in building communications spaces and media pathways meet industry standards.

CLIN 20 - Communications Installer

Assists in the planning, design, and implementation of communications networks. Responsible for providing assistance and technical support for network design activities. Assists in the review/assessment of user needs. Performs feasibility studies for small projects. Assists in the evaluation and selection of equipment.

CLIN 21 - Communications Transmission Engineer

Provides technical direction and engineering knowledge for communications activities including planning, designing, installing and maintaining large communications networks. Develops, operates, and maintains voice, wireless, video, and data communications systems. Provides complex engineering or analytical tasks and activities associated with one or more technical areas within the communications function.

CLIN 22 - Consultant

Works with end user groups to evaluate and solve technical problems. Evaluates existing systems and/or user needs to analyze, design, recommend, and implement system changes.

CLIN 23 - Data Architect

Designs and builds relational databases. Develops strategies for data acquisitions, archive recovery, and implementation of a database. Works in a data warehouse environment, which includes data design, database architecture, metadata and repository creation. Translates business needs into long-term architecture solutions. Defines, designs, and builds dimensional databases. Develops data warehousing blueprints, evaluating hardware and software platforms, and integrating systems. Evaluates reusability of current data for additional analyses. Reviews object and data models and the metadata repository to structure the data for better management and quicker access.

CLIN 24 - Electronic Mail Coordinator

Monitors servers, replication, and mail routing. Creates user accounts and maintains security levels on databases. Provides first-level telephone support and troubleshoots. Monitors existing messaging infrastructure and server usage, ensuring proper working order.

CLIN 25 - Help Desk Specialist

Provides support to end users on a variety of issues. Identifies, researches, and resolves technical problems. Responds to telephone calls, email and personnel requests for technical support. Documents, tracks, and monitors the problem to ensure a timely resolution.

CLIN 26 - Information Assurance Development Engineer

Analyzes and defines security requirement for computer systems which may include mainframes, workstations, and personal computers. Designs, develops, engineers, and implements solutions that meet security requirements. Provides integration and implementation of the computer system security solution.

CLIN 27 - Information Assurance Engineer

Establishes and satisfies complex system-wide information security requirements based upon the analysis of user, policy, regulatory, and resource demands. Supports customers at the highest levels in the development and implementation of doctrine and policies. Applies know-how to government and commercial common user systems, as well as to dedicated special purpose systems requiring specialized security features and procedures.

CLIN 28 - Information Assurance Network Specialist

Analyzes general information assurance-related technical problems and provides basic engineering and technical support in solving these problems. Designs, develops, engineers, and implements solutions that meet network security requirements. Performs vulnerability/risk analyses of computer systems and applications during all phases of the system development life cycle.

CLIN 29 - Information Assurance Systems/Network Specialist

Installs, configures and maintains organization's operating systems. Analyzes and resolves problems associated with server hardware, NT, applications software. Detects, diagnoses, and reports NT related problems on both NT server and NT desktop systems. Performs a wide variety of tasks in software/hardware maintenance and operational support of NT Server systems.

CLIN 30 - Information Security Business Analyst

Determines enterprise information security standards. Develops and implements information security standards and procedures. Ensures that all information systems are functional and secure.

CLIN 31 - IT Subject Matter Specialist

Provides extremely high-level subject matter proficiency for work described in the task. Provides advanced technical knowledge and analysis of highly specialized applications and operational environment, high-level functional systems analysis, design, integration, documentation, training, and implementation advice on complex problems that require doctorate level knowledge of the subject matter for effective implementation.

CLIN 32 - LAN/WAN/MAN Administrator

Monitors LAN, WAN, MAN, and servers. Provides batch monitoring, tape back-up, and restoration. Supports, installs, maintains, and troubleshoots all local area and wide area networking devices and related software for branch offices and internal and external networks.

CLIN 33 - Network Control Technician

Tests and analyzes all elements of complex network facilities (including power, software, communications devices, lines, modems, and terminals). Monitors and controls the performance and status of the network resources. Utilizes software and hardware tools and identifies and diagnoses complex problems and factors affecting network performance.

CLIN 34 - Network Systems Administrator

Provides system administration of Network, Web, and/or communication systems, including Local Area Network (LAN) and Wide Area Network (WAN) systems, involving network security. Prepares technical implementation plans that provide integrated solutions including actions, milestones, timelines and critical paths required for complete solutions.

CLIN 35 - Network Systems Manager

Supervises all personnel engaged in the operation and support of network facilities, including all communications equipment in large scale or multi-shift operations. Supervises complex operations that involve two or more additional functions such as, but not limited to, network operations, systems security, systems software support, and production support activities.

CLIN 36 - Network/Hardware Support Technician

Monitors and responds to hardware, software, and network problems. Provides the routine testing and analysis of all elements of the network facilities (including power, software, communications machinery, lines, modems, and terminals). Monitors and controls the performance and status of the network resources.

CLIN 37 - Operations Manager - Data Communications

Manages all aspects of the daily operation for data network(s) in either a stand-alone data network environment in a voice and data separated network environment. Develops project plans for the implementation of new telecommunications technology and systems. Directs

technical analysis of complex software, hardware, and transmission systems. Coordinates with vendors involved in providing communication activities.

CLIN 38 - Operations Manager - Voice Communications

Manages all aspects of the daily operation for voice network(s) in either a stand-alone voice network OR in a voice and data separated network environment. Develops project plans for the implementation of new telecommunications technology and systems. Directs technical analysis of complex software, hardware, and transmission systems.

CLIN 39 - Operations Systems Manager

Provides assistance and oversight for all information systems operations activities, including computer and telecommunications/communications operations, data entry, data control, operations support, operating systems programming, system security policy procedures, and/or web strategy and operations. Provides input to policy level discussions regarding standards and budget constraints.

CLIN 40 - Operations/Network LAN Administrator

Supports, monitors, tests, and troubleshoots hardware and software problems pertaining to LAN. Recommends and schedules repairs. Provides end users support for all LAN- based applications. Installs and configures workstations.

CLIN 41 - Operations/Technical Support Analyst

Provides technical guidance for directing and monitoring information systems operations. Implements machine modifications to increase the capacity of the system. Directs compilation of records and reports concerning production, machine malfunctioning and maintenance.

CLIN 42 - Project Engineer

Manages long-term IT engineering projects. Performs engineering design evaluations and works to complete projects within budget and scheduling restraints. Develops, implements, and monitors information systems policies and controls to ensure data accuracy, security, and regulatory compliance. Reviews reports of computer and peripheral equipment production, malfunction, and maintenance to determine and address problems.

CLIN 43 - Quality Assurance Specialist

Provides development of project Software Quality Assurance Plan and the implementation of procedures that conforms to the requirements of the contract. Provides an independent assessment of how the project's software development process is being implemented relative to the defined process and recommends methods to optimize the organization's process.

CLIN 44 - Security Coordinator

Coordinates, develops, and evaluates security programs for an organization.

CLIN 45 - Site Manager

Provides applications systems analysis and programming activities for a Government site, facility or multiple locations. Prepares long and short-range plans for application selection, systems development, systems maintenance, and production activities and for necessary support resources.

CLIN 46 - Strategic Planner

Provides strategic planning of large projects or a significant segment of a strategic planning portion of a large complex project. Provides the overall approach to clarify mission statements so they can be used as springboards in envisioning their desired future. Assists in developing mission and vision statements, subsequent goal delineation, provides guidance for building



operational plans and specifying measurable outcomes to include capital outlay planning efforts in a consolidated strategic planning process and prioritizes those initiatives.

CLIN 47 - Systems Engineer

Performs a variety of systems engineering tasks and activities that are broad in nature and are concerned with major systems design, integration, and implementation, including personnel, hardware, software, budgetary, and support facilities and/or equipment. Provides quality assurance review and the evaluation of new and existing software products.

CLIN 48 - Telecommunications Network Help Desk

Responds to user complaints to research complex problems associated with the organization's telecommunications networks (voice and/or data). Diagnoses problem source through discussions with users. Coordinates with internal company support and operations groups and/or with vendors to resolve problems. Follows up with users to ensure problem has been resolved. Develops supporting documentation of all activities.

CLIN 49 - Telecommunications/Communications Integration Engineer

Provides technical direction and analysis for telecommunication activities, including planning, designing, integrating, installing and maintaining large-scale telecommunications/communications networks and services with computer systems. Applies telecommunications/communications engineering principles and theory to propose design and configuration alternatives. Analyzes network performance, usage and traffic flows, accesses and interfaces, transmission techniques, and protocols to interface with computer systems.

CLIN 50 - Voice Communications Technician

Monitors and responds to complex technical control facility hardware and software problems. Interfaces with vendor support service groups to ensure proper escalation during outages or periods of degraded system performance. Maintains PBX/systems and associated hardware.

FUNCTIONAL AREA 4 – NAICS CODE 518210

Data Processing, Hosting and Related Services

CLIN 1 - Project Manager – Senior

Responsible for all aspects of the development and implementation of assigned projects and provides a single point of contact for those projects. Takes projects from original concept through final implementation. Interfaces with all areas affected by the project including end users, computer services, and client services. Defines project scope and objectives. Develops detailed work plans, schedules, project estimates, resource plans, and status reports. Conducts project meetings and is responsible for project tracking and analysis. Ensures adherence to quality standards and reviews project deliverables. Manages the integration of vendor tasks and tracks and reviews vendor deliverables. Provides technical and analytical guidance to project team. Recommends and takes action to direct the analysis and solutions of problems.

CLIN 2 – Data Entry Supervisor

Supervises all data entry activities. Assigns work to personnel and directs activities. Reviews and evaluates work and prepares performance reports. Frequently reports to a Computer Operations Manager or Production Control Supervisor.

CLIN 3 – Data Warehousing Administrator

Coordinates the data administration technical function for both data warehouse development and maintenance. Plans and oversees the technical transitions between development, testing, and production phases of the workplace. Facilitates change control, problem management, and communication among data architects, programmers, analysts and engineers. Establishes and enforces processes to ensure a consistent, well-managed and well-integrated data warehouse infrastructure. Expands and improves data warehouse to includes data from all functions of the organization using data manipulation, transformation and cleansing tools. Requires three years of experience in the field.

CLIN 4 – Data Warehousing Analyst

Works in a data warehouse environment, which includes data design, database architecture, metadata and repository creation. Reviews data loaded into the data warehouse for accuracy. Responsible for the development, maintenance and support of an enterprise data warehouse system and corresponding data marts. Troubleshoots and tunes existing data warehouse applications. Conducts research into new data warehouse applications and determines viability for adoption. Assists in establishing development standards. Evaluates existing subject areas stored in the data warehouse. Incorporates existing subject areas into an enterprise model. Creates new or enhanced components of the data warehouse. Requires two years experience in the field.

CLIN 5 – Data Warehousing Programmer

Responsible for product support and maintenance of the data warehouse. Performs data warehouse design and construction. Codes and documents scripts and stored procedures. Designs/implements data strategy methods. Develops appropriate programs and systems documentation. Assists with Meta data repository management. Prepares/implements data verification and testing methods for the data warehouse. Creates index and view scripts. Requires two years experience in the field.

CLIN 6 – Data Warehousing Project Manager

Works in a data warehouse environment, which includes data design, database architecture, metadata and repository creation. Responsible for leading data warehouse team in development and enhancements of the data warehouse user interface. Establishes user requirements. Creates new standards and procedures related to end user and internal interface development. Works with Data Architect on technical issues and system architecture definition. Translates high-level work plans and converts to detailed assignments for team members. Monitors status of assignments and reviews work for completion and quality. Typically requires more than five years of experience.

CLIN 7 – Database Administrator

Participates in the design, creation, and maintenance of computerized databases. Responsible for quality control and auditing of databases to ensure accurate and appropriate use of data. Works with management to develop database strategies to support company needs. Consults with and advises users on access to various databases. Works directly with users to resolve data conflicts and inappropriate data usage. Directs the maintenance and use of the corporate data dictionary. Typically requires two to four years of experience.

CLIN 8 – Database Manager

Responsible for all activities related to the administration of computerized databases. Assigns personnel to various projects and directs their activities. Reviews and evaluates work and prepares performance reports. Confers with and advises subordinates on administrative policies and procedures, technical problems, priorities, and methods. Consults with and advises users of various databases. Projects long-range requirements for database administration in conjunction with other managers in the information systems function as well as business function managers. Prepares activity and progress reports regarding the database management section. Typically requires five to seven years of experience.

CLIN 9 – Web Operations Manager

Responsible for ongoing oversight of web strategy and operations. Develops business plan and annual budget for website function. Accountable for budget, staff planning, management, and product and service delivery. Oversees operational activities of the website(s) with specific attention aimed at content creation and website maintenance. Typically requires experience with web technologies and web page design.

CLIN 12 - Applications Programmer

Devises or modifies procedures to solve complex problems considering computer equipment capacity and limitations, operating time, and form of desired results. Designs, codes, tests, debugs, and documents.

CLIN 13 - Business Subject Matter Specialist

Provides technical knowledge and analysis of highly specialized applications and operational environments, high-level functional systems analysis, design, integration, documentation and implementation advice on exceptionally complex problems that need extensive knowledge of the subject matter for effective implementation. Participates as needed in all phases of software development with emphasis on the planning, analysis, testing, integration, documentation, and presentation phases.

CLIN 14 - Chief Information Security Officer

Ensures that all information systems are functional and secure.

CLIN 15 - Client/Server Database Manager

Projects long-range requirements for client/server database administration in conjunction with other managers in the information systems function as well as business function managers. Prepares activity and progress reports regarding the client/server database management section.

CLIN 16 – Consultant

Works with end user groups to evaluate and solve technical problems. Evaluates existing systems and/or user needs to analyze, design, recommend, and implement system changes.

CLIN 17 - Data Architect

Designs and builds relational databases. Develops strategies for data acquisitions, archive recovery, and implementation of a database. Works in a data warehouse environment, which includes data design, database architecture, metadata and repository creation. Translates business needs into long-term architecture solutions. Defines, designs, and builds dimensional databases. Develops data warehousing blueprints, evaluating hardware and software platforms, and integrating systems. Evaluates reusability of current data for additional analyses. Reviews object and data models and the metadata repository to structure the data for better management and quicker access.

CLIN 18 - Data/Configuration Management Specialist

Provides configuration management planning. Describes provisions for configuration identification, change control, configuration status accounting, and configuration audits. Regulates the change process so that only approved and validated changes are incorporated into product documents and related software.

CLIN 19 - E-Business Manager

Sets direction and guides action plans and priorities of electronic commerce, marketing and communications. Develops and facilitates organizational models and structure changes needed to meet the evolving electronic business strategies. Establishes and implements enterprise-wide business systems.

CLIN 20 - Electronic Mail Coordinator

Monitors servers, replication, and mail routing. Creates user accounts and maintains security levels on databases. Provides first-level telephone support and troubleshoots. Monitors existing messaging infrastructure and server usage, ensuring proper working order.

CLIN 21 - Information Security Business Analyst

Determines enterprise information security standards. Develops and implements information security standards and procedures. Ensures that all information systems are functional and secure.

CLIN 22 - IT Subject Matter Specialist

Provides extremely high-level subject matter proficiency for work described in the task. Provides advanced technical knowledge and analysis of highly specialized applications and operational environment, high-level functional systems analysis, design, integration, documentation, training, and implementation advice on complex problems that require doctorate level knowledge of the subject matter for effective implementation.

CLIN 23 - Operations Manager - Data Communications

Manages all aspects of the daily operation for data network(s) in either a stand-alone data network environment in a voice and data separated network environment. Develops project plans for the implementation of new telecommunications technology and systems. Directs

technical analysis of complex software, hardware, and transmission systems. Coordinates with vendors involved in providing communication activities.

CLIN 24 - Operations Manager - Voice Communications

Manages all aspects of the daily operation for voice network(s) in either a stand-alone voice network OR in a voice and data separated network environment. Develops project plans for the implementation of new telecommunications technology and systems. Directs technical analysis of complex software, hardware, and transmission systems.

CLIN 25 - Operations Systems Manager

Provides assistance and oversight for all information systems operations activities, including computer and telecommunications/communications operations, data entry, data control, operations support, operating systems programming, system security policy procedures, and/or web strategy and operations. Provides input to policy level discussions regarding standards and budget constraints.

CLIN 26 - Operations/Network LAN Administrator

Supports, monitors, tests, and troubleshoots hardware and software problems pertaining to LAN. Recommends and schedules repairs. Provides end users support for all LAN- based applications. Installs and configures workstations.

CLIN 27 - Operations/Technical Support Analyst

Provides technical guidance for directing and monitoring information systems operations. Implements machine modifications to increase the capacity of the system. Directs compilation of records and reports concerning production, machine malfunctioning and maintenance.

CLIN 28 - Project Engineer

Manages long-term IT engineering projects. Performs engineering design evaluations and works to complete projects within budget and scheduling restraints. Develops, implements, and monitors information systems policies and controls to ensure data accuracy, security, and regulatory compliance. Reviews reports of computer and peripheral equipment production, malfunction, and maintenance to determine and address problems.

CLIN 29 - Quality Assurance Specialist

Provides development of project Software Quality Assurance Plan and the implementation of procedures that conforms to the requirements of the contract. Provides an independent assessment of how the project's software development process is being implemented relative to the defined process and recommends methods to optimize the organization's process.

CLIN 30 - Security Coordinator

Coordinates, develops, and evaluates security programs for an organization.

CLIN 31 - Systems Engineer

Performs a variety of systems engineering tasks and activities that are broad in nature and are concerned with major systems design, integration, and implementation, including personnel, hardware, software, budgetary, and support facilities and/or equipment. Provides quality assurance review and the evaluation of new and existing software products.

CLIN 32 - Web Content Analyst

Provides for development and content that will motivate and entertain users so that they regularly access the website and utilize it as a major source for information and decision-making. Provides managing/performing website editorial activities including gathering and researching information that enhances the value of the site.

CLIN 33 - Web Security Analyst

Performs all procedures necessary to ensure the safety of the organization's website and transactions across the Internet/intranet. Applies Internet firewall technologies to maintain security. Ensures that the user community understands and adheres to necessary procedures to maintain security. Updates and deletes users, monitors and performs follow-up on compliance violations, and develops security policies, practices, and guidelines.

FUNCTIONAL AREA 5 – NAICS CODE 541519

Other Computer Related Services

CLIN 1 - Project Manager – Senior

Responsible for all aspects of the development and implementation of assigned projects and provides a single point of contact for those projects. Takes projects from original concept through final implementation. Interfaces with all areas affected by the project including end users, computer services, and client services. Defines project scope and objectives. Develops detailed work plans, schedules, project estimates, resource plans, and status reports. Conducts project meetings and is responsible for project tracking and analysis. Ensures adherence to quality standards and reviews project deliverables. Manages the integration of vendor tasks and tracks and reviews vendor deliverables. Provides technical and analytical guidance to project team. Recommends and takes action to direct the analysis and solutions of problems.

CLIN 2 – Business Process Consultant

Responsible for most complex systems process analysis, design, and simulation. Requires highest-level understanding of organization’s business systems and industry requirements. Focus is on process analysis and re-engineering, with an understanding of technical problems and solutions as they relate to the current and future business environment. Creates process change by integrating new processes with existing ones and communicating these changes to impacted Business Systems teams. Recommends and facilitates quality improvement efforts. May lead re-engineering team and act as project manager in some cases.

CLIN 3 – Business Systems Analyst - Intermediate

Under general supervision, formulates and defines systems scope and objectives through research and fact-finding combined with an understanding of applicable business systems and industry requirements. With this knowledge, develops or modifies moderately complex information systems. Includes analysis of business and user needs, documenting requirements, and revising existing system logic difficulties as necessary. Guides and advises less-experienced Business Systems Analysts. Competent to work in some phases of systems analysis and considers the business implications of the application of technology to the current business environment.

CLIN 4 – Business Systems Analyst - Senior

Under general direction, formulates and defines systems scope and objectives based on both user needs and a good understanding of applicable business systems and industry requirements. Devises or modifies procedures to solve complex problems considering computer equipment capacity and limitations, operating time, and form of desired results. Includes analysis of business and user needs, documentation of requirements, and translation into proper system requirement specifications. Guides and advises less-experienced Business Systems Analysts. Competent to work at the highest technical level of most phases of systems analysis while considering the business implications of the application of technology to the current and future business environment.

CLIN 5 – Business Systems Specialist

Top-level technical contributor with expertise in particular business processes responsible for formulating systems scope and objectives relative to the organization’s business plan and industry requirements. Acts independently or as a member of a project team responsible for providing technical guidance concerning the business implications of the application of various systems. Provides technical consulting on complex projects. Devises and/or modifies

procedures to solve the most complex technical problems related to computer equipment capacity and limitations, operating time, and form of desired results. Creates detailed specifications from which programs will be written. May have quality assurance responsibilities.

CLIN 6 – Data Security Administration Manager

Directs and implements the necessary controls and procedures to cost-effectively protect information systems assets from intentional or inadvertent modification, disclosure, or destruction. Provides guidance and direction for the physical protection of information systems assets to other functional units. Provides reports to superiors regarding effectiveness of data security and makes recommendations for the adoption of new procedures. Assigns work to subordinates, monitors performance, and conducts performance appraisals. Interviews and makes recommendations for additional staff.

CLIN 7 – Data Security Analyst - Intermediate

Under general supervision, performs all procedures necessary to ensure the safety of information systems assets and to protect systems from intentional or inadvertent access or destruction. Interfaces with user community to understand their security needs and implements procedures to accommodate them. Ensures that user community understands and adheres to necessary procedures to maintain security. Conducts accurate evaluation of the level of security required. Provides management with status reports. Frequently reports to a Data Security Administration Manager.

CLIN 8 – Data Security Analyst - Senior

Under general direction, performs all procedures necessary to ensure the safety of information systems and to protect systems from intentional or inadvertent access or destruction. Interfaces with user community to understand their security needs and implements procedures to accommodate them. Ensures that user community understands and adheres to necessary procedures to maintain security. May require familiarity with domain structures, user authentication, and digital signatures. Conducts accurate evaluation of the level of security required. May require understanding of firewall theory and configuration. Must be able to weigh business needs against security concerns and articulate issues to management.

CLIN 9 – Disaster Recovery Administrator

Under general supervision, responsible for the overall security and integrity of organizational electronic data, data systems, and data networks. Designs and administers programs to include policies, standards, guidelines, training programs, and a viable quality assurance process for disaster recovery. Oversees and reviews the testing and implementation of software, data systems, and data networks to ensure that the integrity and security of all electronic data and data systems are adequately protected. Oversees and facilitates the preparation of an organization-wide business resumption plan. Responsible for ensuring the business resumption plan adequately addresses the organization's requirements and established time frames. Responsible for day-to-day security administration of the organization's data systems and data networks including systems access administration. Typically requires five or more years of experience in disaster recovery/business resumption planning.

CLIN 10 – Disaster Recovery Analyst

Responsible for security and integrity of assigned electronic data, data systems, and data networks. Designs and administers programs to include policies, standards, guidelines, training programs and a viable quality assurance process for disaster recovery. Oversees and reviews the testing and implementation of software, data systems and data networks to insure that the integrity and security of all electronic data and data systems are adequately protected. Oversees and facilitates the preparation of an organization-wide business resumption plan.

Responsible for insuring the business resumption plan adequately addresses the organization's requirements and established time frames. Requires five years experience in the field.

CLIN 11 – Groupware Specialist

Responsible for the implementation, maintenance, and support of organization messaging system. May work closely with first tier support staff to solve system problems. Ensures smooth integration of all groupware systems in a particular environment. Provides technical support on local groupware replication and client dial-up access issues. Prepares documentation that will assist in the maintenance of the groupware system. May serve as an internal consultant to developers, assisting them in the area of server supports, security, ID files, and other development issues that will aid the process. Requires solid working knowledge of WANs, LANs, and telecommunication concepts as they relate to the groupware system and database replication.

CLIN 12 – Information Services Consultant

Top-level technical expert supporting unlimited end user groups. Works with user groups to solve business problems with available technology including hardware, software, databases, and peripherals. Requires high level of diverse technical experience related to studying and analyzing systems needs, systems development, systems process analysis, design, and re-engineering. Has skills and experience related to business management, systems engineering, operations research, and management engineering. Typically requires specialization in particular software or business application utilized in an end user environment. Keeps abreast of technological developments and applications.

CLIN 13 – Information Systems Auditor - Intermediate

Under general supervision, audits moderately complex new and existing information systems applications to ensure that appropriate controls exist, that processing is efficient and accurate, and that systems and procedures are in compliance with corporate standards. Competent to work on most phases of information systems auditing.

CLIN 14 – Information Systems Auditor - Senior

Under general direction, audits the most complex new and existing information systems applications to ensure that appropriate controls exist, that processing is efficient and accurate, and that information systems procedures are in compliance with corporate standards. Competent to work at the highest level of all phases of information systems auditing.

CLIN 15 – LAN Support Technician - Intermediate

Under general supervision, monitors and responds to technical control facility hardware and software problems utilizing hardware and software testing tools and techniques. May interface with vendor support service groups to ensure proper escalation during outages or periods of degraded system performance. May assist with installation of terminals and associated hardware. May provide LAN server support. Requires strong knowledge of PC/LAN communications hardware/software, in a multi-protocol environment, and network management software. Typically requires two to four years experience in data communications troubleshooting.

CLIN 16 – LAN Support Technician - Senior

Under general direction, monitors and responds to complex technical control facility hardware and software problems utilizing a variety of hardware and software testing tools and techniques. Provides primary interface with vendor support service groups or provides internal analysis and support to ensure proper escalation during outages or periods of degraded system performance. May provide LAN server support. Requires extensive knowledge of PC/LAN communications hardware/software in a multi-protocol environment and network

management software. May function as lead position providing guidance and training for less-experienced technicians. Typically requires at least four years of experience in data communications troubleshooting.

CLIN 17 – Network Planning Manager

Responsible for long-term strategic planning to ensure network capacity meets current and future network requirements including planning for remote hardware and communications facilities, development and implementation of methodologies for system analysis, installation, and support. Defines and develops methodology to ensure compatibility of all software and hardware products at each facility. Provides ongoing coordination in the analysis, acquisition, and installation of remote hardware and software. May supervise Network Planning Analysts. Typically requires six to eight years of experience. Frequently reports to a Telecommunications Department Director/Manager or Planning and Engineering Manager.

CLIN 20 - Business Subject Matter Specialist

Provides technical knowledge and analysis of highly specialized applications and operational environments, high-level functional systems analysis, design, integration, documentation and implementation advice on exceptionally complex problems that need extensive knowledge of the subject matter for effective implementation. Participates as needed in all phases of software development with emphasis on the planning, analysis, testing, integration, documentation, and presentation phases.

CLIN 21 - Chief Information Security Officer

Ensures that all information systems are functional and secure.

CLIN 22 – Consultant

Works with end user groups to evaluate and solve technical problems. Evaluates existing systems and/or user needs to analyze, design, recommend, and implement system changes.

CLIN 23 - Data Architect

Designs and builds relational databases. Develops strategies for data acquisitions, archive recovery, and implementation of a database. Works in a data warehouse environment, which includes data design, database architecture, metadata and repository creation. Translates business needs into long-term architecture solutions. Defines, designs, and builds dimensional databases. Develops data warehousing blueprints, evaluating hardware and software platforms, and integrating systems. Evaluates reusability of current data for additional analyses. Reviews object and data models and the metadata repository to structure the data for better management and quicker access.

CLIN 24 - Information Assurance Development Engineer

Analyzes and defines security requirement for computer systems which may include mainframes, workstations, and personal computers. Designs, develops, engineers, and implements solutions that meet security requirements. Provides integration and implementation of the computer system security solution.

CLIN 25 - Information Assurance Engineer

Establishes and satisfies complex system-wide information security requirements based upon the analysis of user, policy, regulatory, and resource demands. Supports customers at the highest levels in the development and implementation of doctrine and policies. Applies know-how to government and commercial common user systems, as well as to dedicated special purpose systems requiring specialized security features and procedures.

CLIN 26 - Information Assurance Network Specialist

Analyzes general information assurance-related technical problems and provides basic engineering and technical support in solving these problems. Designs, develops, engineers, and implements solutions that meet network security requirements. Performs vulnerability/risk analyses of computer systems and applications during all phases of the system development life cycle.

CLIN 27 - Information Assurance Systems/Network Specialist

Installs, configures and maintains organization's operating systems. Analyzes and resolves problems associated with server hardware, NT, applications software. Detects, diagnoses, and reports NT related problems on both NT server and NT desktop systems. Performs a wide variety of tasks in software/hardware maintenance and operational support of NT Server systems.

CLIN 28 - Information Security Business Analyst

Determines enterprise information security standards. Develops and implements information security standards and procedures. Ensures that all information systems are functional and secure.

CLIN 29 - IT Subject Matter Specialist

Provides extremely high-level subject matter proficiency for work described in the task. Provides advanced technical knowledge and analysis of highly specialized applications and operational environment, high-level functional systems analysis, design, integration, documentation, training, and implementation advice on complex problems that require doctorate level knowledge of the subject matter for effective implementation.

CLIN 30 - Project Engineer

Manages long-term IT engineering projects. Performs engineering design evaluations and works to complete projects within budget and scheduling restraints. Develops, implements, and monitors information systems policies and controls to ensure data accuracy, security, and regulatory compliance. Reviews reports of computer and peripheral equipment production, malfunction, and maintenance to determine and address problems.

CLIN 31 - Quality Assurance Specialist

Provides development of project Software Quality Assurance Plan and the implementation of procedures that conforms to the requirements of the contract. Provides an independent assessment of how the project's software development process is being implemented relative to the defined process and recommends methods to optimize the organization's process.

CLIN 32 - Security Coordinator

Coordinates, develops, and evaluates security programs for an organization.

CLIN 33 - Strategic Planner

Provides strategic planning of large projects or a significant segment of a strategic planning portion of a large complex project. Provides the overall approach to clarify mission statements so they can be used as springboards in envisioning their desired future. Assists in developing mission and vision statements, subsequent goal delineation, provides guidance for building operational plans and specifying measurable outcomes to include capital outlay planning efforts in a consolidated strategic planning process and prioritizes those initiatives.

CLIN 34 - Systems Engineer

Performs a variety of systems engineering tasks and activities that are broad in nature and are concerned with major systems design, integration, and implementation, including personnel,



hardware, software, budgetary, and support facilities and/or equipment. Provides quality assurance review and the evaluation of new and existing software products.

CLIN 35 - Technical Writer

Writes a variety of technical articles, reports, brochures, and/or manuals for documentation for a wide range of uses.

CLIN 36 - Test Engineer

Coordinates the display of graphics and the production of the document. Subject matter specialist providing testing know-how in for the 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.

Notes



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