

## AUTHORIZED FEDERAL SUPPLY SERVICE INFORMATION TECHNOLOGY SCHEDULE PRICELIST GENERAL PURPOSE COMMERCIAL INFORMATION TECHNOLOGY EQUIPMENT, SOFTWARE AND SERVICES

#### SIN 132-51 - INFORMATION TECHNOLOGY (IT) PROFESSIONAL SERVICES

**Note 1:** All non-professional labor categories must be incidental to and used solely to support hardware, software and/or professional services, and cannot be purchased separately.

QSACK & Associates, Inc. 2111 Wilson Blvd., Suite 700 Arlington, VA 22201-3001 Phone: 703-351-5035 Fax: 703-526-9781 www.qsack1.com

Contract Number: GS-35F-029DA Period Covered: October 23, 2015 thru October 22, 2020 Pricelist current through: Modification #1

#### About the Company

QSACK & Associates, Inc. is a full-service provider of professional, information technology, and business support services to corporate and government organizations. From program management to application development to IT help desk support, QSACK is committed to providing cost-effective, reliable, and adaptable information technology solutions to support your requirements.

QSACK earned its high customer rating by consistently providing quality IT solutions tailored to meet the needs of its clients for the last 14 years. Based strategically in Arlington, Virginia, QSACK is headquartered amidst a mix of public and private sector businesses. Since 2001, QSACK's team of highly skilled, IT professionals have worked to build meet the needs of its expanding client base. As a result, the company has broadened its services to include: management consulting, program and project management, business intelligence, document management services, acquisition strategy and management, emergency management, professional staffing, administration network security and system integration and customer and business support services.

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## **CUSTOMER INFORMATION:**

**1a.** Awarded Special Item Number(s):

SIN	Description
132-51	INFORMATION TECHNOLOGY (IT) PROFESSIONAL SERVICES

- 1b. Identification of the lowest priced model number and lowest unit price for that model for each special item number awarded in the contract: **Not Applicable**.
- **1c**. Descriptions of all corresponding commercial job titles with experience, functional responsibility and education. **Not applicable**.
- 2. Maximum Order: \$500,000.00
- 3. Minimum Order: **\$100.00**
- 4. Geographic Coverage: 48 contiguous States and the District of Columbia, Alaska, Hawaii, Puerto Rico, Washington, DC and US Territories.
- **5.** Point of Production:

QSACK & Associates, Inc. 2111 Wilson Blvd., Suite 700 Arlington, VA 22201-3001 Phone: 703-351-5035 Fax: 703-526-9781

- 6. Prices Shown Herein are Net: (discount included)
- 7. Quantity Discount: None
- 8. Prompt Payment Terms: Net 30 Days

- 9. Government Purchase Cards: are accepted.
- 10. Foreign Items: Not Applicable
- 11. Time of Delivery: 30 Days ARO
- 11b. Expedited Delivery: 30 Days ARO
- 11c. Overnight/2-Day Delivery: Available, Consult with Contractor
- 11d. Urgent Requirements: Available, Consult with Contractor
- 12. FOB Point: Destination for 48 contiguous States; freight charges apply outside 48 contiguous States
- 13. Ordering Address:

QSACK & Associates, Inc. 2111 Wilson Blvd., Suite 700 Arlington, VA 22201-3001 Phone: 703-351-5035 Fax: 703-526-9781

14. Payment Address:

QSACK & Associates, Inc. 2111 Wilson Blvd., Suite 700 Arlington, VA 22201-3001 Phone: 703-351-5035 Fax: 703-526-9781

- 15. Warranty Provisions: Standard Commercial Warranty
- **16.** Export Packing charges: Not applicable
- 17. Terms and conditions of Government Purchase Card Acceptance: Contact QSACK & Associates, Inc. for terms and conditions of Government Purchase Card acceptance above micro-purchase threshold.
- 18. Terms and conditions of rental, maintenance, and repair: Not Applicable
- **19.** Terms and conditions of installation: **Not applicable**
- 20. Terms and conditions of repair parts: Not applicable
- 20a. Terms and conditions for any other services: Not applicable
- 21. List of service and distribution points: QSACK & Associates, Inc.
  2111 Wilson Blvd., Suite 700 Arlington, VA 22201-3001

## Phone: 703-351-5035 Fax: 703-526-9781

- 22. List of participating dealers: Not applicable
- 23. Preventive maintenance: Not applicable
- 24a. Environmental attributes, e.g., recycled content, energy efficiency, and/or reduced pollutants: Not applicable
- **24b.** Contact QSACK & Associates, Inc. for Section 508 compliance information. The EIT standards can be found at: <u>http://www.section508.gov</u>
- 25. DUNS Number: 099312212
- 26. QSACK & Associates, Inc. is registered in the System for Award Management (SAM) database.

## TERMS AND CONDITIONS APPLICABLE TO INFORMATION TECHNOLOGY (IT) PROFESSIONAL SERVICES (SPECIAL ITEM NUMBER 132-51) TC "TERMS AND CONDITIONS APPLICABLE TO INFORMATION TECHNOLOGY (IT)" \f C \ "1"

#### 1. SCOPE

a. The prices, terms and conditions stated under Special Item Number 132-51 Information Technology Professional Services apply exclusively to IT/IAM Professional Services within the scope of this Information Technology Schedule.

b. The Contractor shall provide services at the ordering activity location, as agreed to by the Contractor and the ordering activity.

#### 2. PERFORMANCE INCENTIVES I-FSS-60 Performance Incentives (April 2000)

a. Performance incentives may be agreed upon between the Contractor and the ordering activity on individual fixed price orders or Blanket Purchase Agreements under this contract.

b. The ordering activity must establish a maximum performance incentive price for these services and/or total solutions on individual orders or Blanket Purchase Agreements.

c. Incentives should be designed to relate results achieved by the contractor to specified targets. To the maximum extent practicable, ordering activities shall consider establishing incentives where performance is critical to the ordering activity's mission and incentives are likely to motivate the contractor. Incentives shall be based on objectively measurable tasks.

#### 3. ORDER

a. Agencies may use written orders, EDI orders, blanket purchase agreements, individual purchase orders, or task orders for ordering services under this contract. Blanket Purchase Agreements shall not extend beyond the end of the contract period; all services and delivery shall be made and the contract terms and conditions shall continue in effect until the completion of the order. Orders for tasks which extend beyond the fiscal year for which funds are available shall include FAR 52.232-19 (Deviation – May 2003) Availability of Funds for the Next Fiscal Year.

The purchase order shall specify the availability of funds and the period for which funds are available.

b. All task orders are subject to the terms and conditions of the contract. In the event of conflict between a task order and the contract, the contract will take precedence.

## 4. **PERFORMANCE OF SERVICES**

a. The Contractor shall commence performance of services on the date agreed to by the Contractor and the ordering activity.

b. The Contractor agrees to render services only during normal working hours, unless otherwise agreed to by the Contractor and the ordering activity.

c. The ordering activity should include the criteria for satisfactory completion for each task in the Statement of Work or Delivery Order. Services shall be completed in a good and workmanlike manner.

d. Any Contractor travel required in the performance of IT Services must comply with the Federal Travel Regulation or Joint Travel Regulations, as applicable, in effect on the date(s) the travel is performed. Established Federal Government per diem rates will apply to all Contractor travel. Contractors cannot use GSA city pair contracts.

## 5. STOP-WORK ORDER (FAR 52.242-15) (AUG 1989)

(a) The Contracting Officer may, at any time, by written order to the Contractor, require the Contractor to stop all, or any part, of the work called for by this contract for a period of 90 days after the order is delivered to the Contractor, and for any further period to which the parties may agree. The order shall be specifically identified as a stop-work order issued under this clause. Upon receipt of the order, the Contractor shall immediately comply with its terms and take all reasonable steps to minimize the incurrence of costs allocable to the work covered by the order during the period of work stoppage. Within a period of 90 days after a stop-work is delivered to the Contractor, or within any extension of that period to which the parties shall have agreed, the Contracting Officer shall either-

- (1) Cancel the stop-work order; or
- (2) Terminate the work covered by the order as provided in the Default, or the Termination for Convenience of the Government, clause of this contract.

(b) If a stop-work order issued under this clause is canceled or the period of the order or any extension thereof expires, the Contractor shall resume work. The Contracting Officer shall make an equitable adjustment in the delivery schedule or contract price, or both, and the contract shall be modified, in writing, accordingly, if-

- (1) The stop-work order results in an increase in the time required for, or in the Contractor's cost properly allocable to, the performance of any part of this contract; and
- (2) The Contractor asserts its right to the adjustment within 30 days after the end of the period of work stoppage; provided, that, if the Contracting Officer decides the facts justify the action, the Contracting Officer may receive and act upon the claim submitted at any time before final payment under this contract.

(c) If a stop-work order is not canceled and the work covered by the order is terminated for the convenience of the Government, the Contracting Officer shall allow reasonable costs resulting from the stop-work order in arriving at the termination settlement.

(d) If a stop-work order is not canceled and the work covered by the order is terminated for default, the Contracting Officer shall allow, by equitable adjustment or otherwise, reasonable costs resulting from the stop-work order.

# (DEVIATION I – FEB 2007) applies to Time-and-Materials and Labor-Hour Contracts orders placed under this contract.

## 6. INSPECTION OF SERVICES

## 7. RESPONSIBILITIES OF THE CONTRACTOR

### In accordance with FAR 52.212-4 CONTRACT TERMS AND CONDITIONS--COMMERCIAL ITEMS (MAR 2009) (DEVIATION I - FEB 2007) for Firm-Fixed Price orders and FAR 52.212-4 CONTRACT TERMS AND CONDITIONS COMMERCIAL ITEMS (MAR 2009) (ALTERNATE I OCT 2008)

The Contractor shall comply with all laws, ordinances, and regulations (Federal, State, City, or otherwise) covering work of this character. If the end product of a task order is software, then FAR 52.227-14 (Dec 2007) Rights in Data – General, may apply.

## 8. **RESPONSIBILITIES OF THE ORDERING ACTIVITY**

Subject to security regulations, the ordering activity shall permit Contractor access to all facilities necessary to perform the requisite IT Professional Services.

## 9. INDEPENDENT CONTRACTOR

All IT Professional Services performed by the Contractor under the terms of this contract shall be as an independent Contractor, and not as an agent or employee of the ordering activity.

## 10. ORGANIZATIONAL CONFLICTS OF INTEREST

## a. Definitions.

"Contractor" means the person, firm, unincorporated association, joint venture, partnership, or corporation that is a party to this contract.

"Contractor and its affiliates" and "Contractor or its affiliates" refers to the Contractor, its chief executives, directors, officers, subsidiaries, affiliates, subcontractors at any tier, and consultants and any joint venture involving the Contractor, any entity into or with which the Contractor subsequently merges or affiliates, or any other successor or assignee of the Contractor.

An "Organizational conflict of interest" exists when the nature of the work to be performed under a proposed ordering activity contract, without some restriction on ordering activities by the Contractor and its affiliates, may either (i) result in an unfair competitive advantage to the Contractor or its affiliates or (ii) impair the Contractor's or its affiliates' objectivity in performing contract work.

b. To avoid an organizational or financial conflict of interest and to avoid prejudicing the best interests of the ordering activity, ordering activities may place restrictions on the Contractors, its affiliates, chief executives, directors, subsidiaries and subcontractors at any tier when placing orders against schedule contracts. Such restrictions shall be consistent with FAR 9.505 and shall be designed to avoid, neutralize, or mitigate organizational conflicts of interest that might otherwise exist in situations related to individual orders placed against the schedule contract. Examples of situations, which may require restrictions, are provided at FAR 9.508.

## 11. INVOICES

The Contractor, upon completion of the work ordered, shall submit invoices for IT/IAM Professional services. Progress payments may be authorized by the ordering activity on individual orders if appropriate. Progress payments shall be based upon completion of defined milestones or interim products. Invoices shall be submitted monthly for recurring services performed during the preceding month.

## 12. PAYMENTS

For firm-fixed price orders the ordering activity shall pay the Contractor, upon submission of proper invoices or vouchers, the prices stipulated in this contract for service rendered and accepted. Progress payments shall be made only when authorized by the order. For timeandmaterials orders, the Payments under TimeandMaterials and LaborHour Contracts at FAR

52.212-4 (MAR 2009) (ALTERNATE I – OCT 2008) (DEVIATION I – FEB 2007) applies to timeandmaterials orders placed under this contract. For laborhour orders, the Payment under TimeandMaterials and LaborHour Contracts at FAR 52.212-4 (MAR 2009) (ALTERNATE I – OCT 2008) (DEVIATION I – FEB 2007) applies to laborhour orders placed under this contract. 52.216-31(Feb 2007) Time-and-Materials/Labor-Hour Proposal Requirements—Commercial Item Acquisition As prescribed in 16.601(e)(3), insert the following provision:

(a) The Government contemplates award of a Time-and-Materials or Labor-Hour type of contract resulting from this solicitation.

(b) The offeror must specify fixed hourly rates in its offer that include wages, overhead, general and administrative expenses, and profit. The offeror must specify whether the fixed hourly rate for each labor category applies to labor performed by—

- (1) The offeror;
- (2) Subcontractors; and/or
- (3) Divisions, subsidiaries, or affiliates of the offeror under a common control.

## 13. **RESUMES**

Resumes shall be provided to the GSA Contracting Officer or the user ordering activity upon request.

## 14. INCIDENTAL SUPPORT COSTS

Incidental support costs are available outside the scope of this contract. The costs will be negotiated separately with the ordering activity in accordance with the guidelines set forth in the FAR.

## **15. APPROVAL OF SUBCONTRACTS**

The ordering activity may require that the Contractor receive, from the ordering activity's Contracting Officer, written consent before placing any subcontract for furnishing any of the work called for in a task order.

## **16. DESCRIPTION OF IT/EC SERVICES AND PRICING** TC "**16. DESCRIPTION OF IT/EC SERVICES AND PRICING**" \f C \l "2"

a. The Contractor shall provide a description of each type of IT Service offered under Special Item Numbers 132-51 and Services should be presented in the same manner as the Contractor sells to its commercial and other ordering activity customers. If the Contractor is proposing hourly rates, a description of all corresponding commercial job titles (labor categories) for those individuals who will perform the service should be provided.

b. Pricing for all IT services shall be in accordance with the contractor's customary commercial practices; e.g., hourly rates, monthly rates, term rates, and/or fixed prices.

GSA Pricelist:	Effective	January	1, 2015
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SIN 132-51		
Labor Category	Hourly Rate	]
Program Manager	\$165.93	
Systems Analyst	\$98.99	
Systems Programmer	\$126.78	
Senior Systems Programmer	\$131.63	
Subject Matter Expert	\$108.12	
Systems Engineer	\$102.17	
Senior Systems Software Engineer	\$133.82	
Application System Analyst Programmer/Integrator	\$100.50	
Application System Analyst Programmer	\$100.5	
Systems Security Specialist	\$95.73	
Systems Analyst	\$99.74	
Senior Network Engineer	\$69.81	
Technical Writer	\$71.90	
Computer Operator	\$52.39	
Senior Administrative Assistant	\$45.20	1
Systems Administrator	\$39.21	]

## Labor Category Descriptions

## **Program Manager**

#### Minimum\General Experience:

Eight (8) years of experience in field of Information Technology and program management, providing guidance to project team and management in directing development of new IT applications and formulating contingency plans in areas such scheduling, fund allocations and work requirements.

## **Functional Responsibility**

The Program Manager plans, directs and coordinates the efforts involving resources necessary to accomplish IT program objectives. The Program Manager initiates, supports and participates in overall IT projects. The Program Manager determines requirements and translates these requirements into operational plans for designated IT projects. Determines, monitors and review costs, operational budgets, schedules and staffing requirements for project team. Analyzes effects of IT related project upon various operating and support areas, such as information processing/data centers, to determine the most cost effective approach.

## **Minimum Education**

Bachelor's degree in Computer science.

## **Systems Analyst**

## **Minimum Experience**

A minimum of 8 years of progressive responsibility in the design, scoping of systems to meet very specific goals.

**Functional Responsibility** 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, debug and document those programs. Is 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.

## **Minimum Education**

Bachelor's Degree in IT, or a related discipline.

## Subject Matter Expert Minimum/General Experience:

Six (6) years of relevant technical experience in the field of Information Technology(IT). Advanced degree may substitute for years of experience.

**Functional Responsibility:** Defines the problem and analyzes and develops plans and requirements in the IT subject matter area for moderately complex to complex systems. Guides the assessment of IT System Objectives and concept of operations. Coordinates and manages the preparation of analysis, evaluations, and recommendations for proper implementation of programs and systems specifications in the following specialties: information technology, information systems architecture, networking, telecommunications, automation, communications protocols, risk management/electronic analysis, software, lifecycle management, software development methodologies, and modeling and simulation.

**Minimum Education**: Master's degree in Computer Science, Information Systems, Engineering, Business, or other related scientific or technical discipline.

#### Systems Programmer

## Minimum/General Experience

Must have two (2) years of IT experience, including at least one (1) year of experience in programming.

#### **Functional/Responsibility**

Uses sound software engineering principles to ensure that developed code is modifiable efficient, reliable, understandable, and fault tolerant. Codes, and tests software based upon software specifications and designs. Provides software process management and control throughout the coding portion of the software development process.

## **Minimum Education**

Bachelor's degree in a related discipline.

## **Technical Writer**

## Minimum/General Experience:

Two (2) years of experience in technical documentation and project development.

## **Functional Responsibility**

The Technical Writer plans, coordinates and develops documentation for all aspects of the systems engineering life-cycle. Under the direction of a senior technical writer or program manager, the Technical Writer prepares assigned sections of complex documents or writes simple documents based on approves outlines. The Technical writer coordinates the preparation of documents that may require the support of multiple staff members, such as writers, editor's technical experts, etc.

## **Minimum Education:**

Bachelor's degree in related discipline.

## Systems Security Specialist

## Minimum/General Experience

Eight (8) or more years of network experience, of which at least four years must be specialized experience in computer security.

## **Functional Responsibility**

Designs, analyzes and programs hardware and software tools to provide innovative solutions to complex systems security issues. Also applies high analytical skills and techniques in the examination of various digital and analog signals. Analyze and define security requirements for Multilevel Security (MLS) issues. Design, develop, engineer, and implement solutions to MLS requirements and Shares responsibility for the implementation and development of the MLS. Gather and organize technical information about an organization's mission goals and needs, existing security products, and ongoing programs in the MLS arena. Performs risk analysis and risk assessment. Provide training and daily supervision and direction to staff. Also may be required to serve as task leader.

#### **Minimum Education**

Bachelor's Degree in Computer Science, Engineering or related field.

#### **Senior Network Engineer**

#### Minimum/General Experience

Eight (8) years of experience analyzing, identifying and resolving complex network hardware, circuit, and transmission logic problems. Experience in the design, installation and acceptance testing of complex high-speed networks.

## **Functional/Responsibility**

Designs and coordinates the installation and acceptance testing of the system network. Monitors network hardware operations to ensure properly set configuration options. Plans implementation of enhancements and upgrades to the network; performs cost/benefit studies of network configurations and recommends enhancements; directs acquisition, installation, and testing of network hardware; advises network users of hardware requirements, configurations, and limitations; and isolates, resolves, or circumvents network problems. Applies the principles of assessing and analyzing network transmission application to resolve reported malfunctions.

## Minimum Education

B.A. in science or engineering. Three (3) years of applicable experience, in addition to a High School Diploma, may be substituted for a Bachelor's Degree.

#### Senior Administrative Assistant

Minimum Experience: Five (5) years in an administrative support role.

**Functional Responsibility:** Answer telephone calls and provide administrative support to staff. Assist faculty with coordinating and preparing materials for conferences and large events. Compose formal, informal, and confidential correspondence. Schedule appointments and maintain calendar for faculty members. Prepare presentations and agendas for matters of consideration at meetings, as requested. Assist with drafting, editing and proofreading all office material. Ensures timely and accurate submission of required reports/documents. Arranges all travel for staff, scheduling airline reservations and hotel accommodations

Minimum Education: Bachelor's degree preferred.

#### Systems Administrator

#### Minimum/General Experience

Four (4) years of experience in the configuration, operation, and diagnosis of multi-user computer systems or local networks, including some managerial experience.

#### **Functional Responsibility**

Supervises the configuration, operation, and day-to-day use of multi-user computer systems. Optimizes system capacity and resources to meet current demands, and makes plans for reconfiguration or expansion to meet future demands. Implements measures to manage system integrity, ensure adequate system security, and maintain adequate system reliability and availability. Diagnoses system problems and effects solutions. Supervises junior system administrators and other operations staff. Provides specific or detailed assistance to system users.

#### **Minimum Education**

Bachelor's degree in a related discipline.

#### **Applications Systems Analyst/Programmer**

#### **Minimum Experience**

Four (4) years of experience in the functions described below.

#### **Functional Responsibility**

Analyze functional business applications and design specifications for functional areas such as finance, accounting, personnel, manpower, logistics, and contracts. Develop block diagrams and logic flow charts. Translate detailed design into computer software. Test, debug, and refine the computer software to produce the required product.

#### **Minimum Education**

Bachelor's in computer science, information systems management, mathematics, engineering, or related discipline.

#### **Systems Engineer**

#### Minimum/General Experience

Four (4) years of experience in computer programming and/or information systems development or a relevant technical discipline. Experience in a combination of standards and policy development, research and analysis of information system issues and trends, research and development in a technical discipline, and development of information systems. Must possess strong organizational and strong interpersonal skills to meet agency and customer needs. Experience in developing and providing technical and end-user training on computer application software.

#### **Functional Responsibility**

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.

#### **Minimum Education**

Bachelor's Degree in Computer Science, Information Systems, Engineering, Business, Social

Science, or other related analytical, scientific, or technical disciplines.

## Senior Systems Software Engineer

## Minimum General/Experience

Seven (7) years of progressive systems engineering and architectural design and the use of structured analysis, design methodologies, design tools, and object oriented principles.

## **Functional Responsibility**

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, debug and document 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.

## **Minimum Education**

B.A. in Computer Science, Information Systems, Engineering, Business, Social Science, or other related analytical, scientific, or technical disciplines.

## Senior Systems Programmer:

## Minimum/General Experience

Must have 6 years of IT experience, including at least 3 years of experience in programming.

## **Functional/Responsibility**

Uses sound software engineering principles to ensure that developed code is modifiable efficient, reliable, understandable, and fault tolerant. Codes, and tests software based upon software specifications and designs. Provides software process management and control throughout the coding portion of the software development process.

## **Minimum Education**

Bachelor's degree in a related discipline.

#### Systems Analyst/Programmer

#### Minimum/General Experience

Five (5) years of experience in data processing , which should include analysis and design of business applications on complex systems for large-scale computers and client-server environments, database management, and the use of current programming languages and DBMSs; Knowledge of current storage and retrieval methods and demonstrated ability to formulate specifications for computer programmers to use in coding, testing, and debugging of computer programs and applications is required; specialized experience may substitute for years of experience.

## **Functional Responsibility**

Performs system-wide analysis, primarily with respect to software development, hardware development and reliability, maintainability and availability. Defines and develops user requirements and system specifications for new and expanded automated system. Creates high-level systems designs including data flow diagrams, and processing specifications. Performs in coding, testing, documenting, and maintaining newly created and/or existing application software. Recommends redesign of programs, investigate and analyze feasibility and program requirements, and develops program specifications. Designs, codes, tests, and debugs applications software.

## **Minimum Education**

Bachelor's degree in computer science, math, engineering, or other related technical discipline; other education, commensurate experience and demonstrated ability of individual may be

substituted.

## **Computer Operator**

## Minimum/General Experience

Two (2) years of experience with computer operating systems, software for error handling and recovery, and operating computer system peripheral devices such as circuit boards, processors, chips, electronic equipment, and other computer hardware.

#### **Functional Responsibility**

Enters commands, using computer terminal, and activates controls on computer and peripheral equipment to integrate and operate equipment. Monitors systems for equipment failure or errors n performance. Oversees operation of computer hardware systems, including coordinating and scheduling the use of computer terminals and networks to ensure efficient use. Operates spreadsheet programs and other types of software to load and manipulate data and to produce reports. Assists programmers and systems analysts test and debug new programs.

## Minimum Education

Associate's degree, or a high school diploma paired with a certificate from a vocational school.