

PROGRAMMER ANALYST 2**Nature of Work**

Under general supervision, at the full-performance level, performs a full range of computer programming work either independently or as a project team member. Troubleshoots hardware and/or software problems by identifying the problem and devising a solution. Uses structured techniques and/or object-oriented techniques for systems development. Work requires a general understanding of computers and interrelations of all aspects of the system. Reviews logic and makes decisions regarding major modifications. Codes complex programs. May occasionally lead and train lower level programmers. An irregular work schedule may be required of this position. Performs related work as required.

Distinguishing Characteristics

____ Programmer Analyst 2's work independently designing software systems and may be responsible for all programming analysis functions for those data processing systems or participates as a member of a project team assisting in the design or modification of systems. Programmer Analyst 2's write complex programs with basic instruction and analyze programs of moderate complexity.

Examples of Work

- Develops new or modifies existing systems programs involving multiple programs or complex on-line systems; writes program modules for more complex systems.
- Prepares new programs or modifies existing programs, prepares flow charts and reviews logic, codes logic flow into appropriate language, conducts test run, debugs program from test results and prepares documentation; writes a user procedure manual under review.
- Provides input for and follows set standards and methodology for analysis, design and coding of a system.
- Consults with users to determine specific program requirements and the data necessary for production; prepares detailed specifications necessary for programming and systems documentation; attends user meetings without supervision.
- Compares viability of various software development tools for systems analysis and design.
- Prepares a detailed statement of system requirements and determines the cost of implementation.

PROGRAMMER ANALYST 2 (CONT'D)**Examples of Work (cont'd)**

Participates in self-study and vendor-supplied courses to improve skills in more complex programming areas.
Performs routine duties such as coding programs, maintaining program documentation, and updating data processing manuals.
May participate on a committee or works independently for the selection of hardware and software.

Knowledge, Skills and Abilities

Knowledge of data base management, documentation and project control techniques.
Knowledge of a 3rd or 4th generation programming.
Knowledge of moderately complex programming systems, software and hardware configuration and their applications in a systems environment.
Knowledge of data processing concepts and equipment usage.
Skill in programming batch and/or on-line systems.
Ability to analyze and reduce abstract data to logical order.
Ability to apply programming applications to solve user problems using electronic data processing.
Ability to evaluate and analyze user requests and develop effective work plans for systems development and maintenance.
Ability to present ideas in a clear, concise format using narrative statements and logic diagrams.
Ability to follow complex written and oral instructions.
Ability to maintain effective working relationships with data processing personnel and users.
Ability to understand complex technical manuals.
Ability to develop and perform system checks which are sufficient to test the thoroughness and accuracy of programs.

Minimum Qualifications

Training: Bachelor's degree from an accredited college or university in computer science or related field including but not limited to business data programming, business systems analysis, computer accounting, computer and information systems, computer servicing technologies, information systems management, data processing, or computer engineering. **OR** An Associate's degree from an accredited college, university or business school in computer science or related field including but not limited to business data

8322

PROGRAMMER ANALYST 2 (CONT'D)

Minimum Qualifications (cont'd)

programming, business systems analysis, computer accounting, computer and information systems, computer servicing technologies, information systems management, data processing, or computer engineering and eighteen months of full-time or equivalent part-time paid computer programming experience in one or more programming or data base languages.

Substitution: Three years of full-time or equivalent part-time paid computer programming experience in one or more programming or data base languages may substitute for the required training.

Experience: Two years of full-time or equivalent part-time paid computer programming experience in one or more programming or data base languages, including one year of analysis work.

Established: 3/21/96
Revised: 11/15/01, 5/21/03
Effective: 5/21/03