

## PROGRAMMER II

DISTINGUISHING FEATURES OF THE CLASS: Under general supervision, an incumbent in this class prepares detailed program instructions in a mainframe or network programming environment. Incumbents are also responsible for the analysis of moderate to complex systems packages, and for the development of programs for mainframe and/or network system applications to effect the results desired. The Programmer II classification is distinguished from Programmer I by the complexity of work, as well as performing duties in systems programming areas. An incumbent of this class may be assigned to the information systems security area and perform the more specialized duties associated with this area of expertise. Guidance and instruction may be provided to lower-level programmers. Does related work as required.

### EXAMPLES OF WORK: (Illustrative Only)

Prepares detailed program instructions in a mainframe or network programming environment;

Analyzes the nature of moderate to complex projects to prepare program instructions that will produce the desired results;

Evaluates programs to determine if other combinations of instructions would achieve greater flexibility, better machine utilization, or more dependable results;

Modifies existing programs in accord with changes in procedures or results desired;

Prepares input and output memory layouts and block diagrams to demonstrate the sequence of computations;

Organizes the logical flow charts;

Prepares the Printer and the Record Layout Sheets;

Prepares instructions for the guidance of Computer Operators;

Establishes checkpoints at regular intervals to verify the accuracy of the work in progress;

Lists each machine step, with directions to assist operators, and prepares complete text descriptions for future reference;

Prepares sample test data;

Tests and debugs programs;

Performs special studies as required.

REQUIRED KNOWLEDGE, SKILLS, ABILITIES AND ATTRIBUTES: Thorough knowledge of the techniques and methodology of programming for at least a Third Generation Computer; thorough knowledge of high level programming language and/or Fourth Generation mainframe programming language; good knowledge of Basic Assembly Programming Language; ability to apply computer systems to business problems; ability to think logically; initiative; reliability; resourcefulness; accuracy; stamina; physical condition commensurate with the demands of the position.

MINIMUM ACCEPTABLE TRAINING AND EXPERIENCE: A high school or equivalency diploma and either: (a) possession of a diploma from a computer school accredited by the National Association of Trade and Technical Schools and three years of recent technical experience (within the last five years) in Fourth Generation mainframe programming language; or (b) Associates Degree\* which must have included or been supplemented by a high level and/or Fourth Generation programming language course and/or Data Processing/Computer Science course and three years experience as stated above in (a); or (c) Bachelor's Degree\* which must have included or been supplemented by a high level programming language and/or Fourth Generation mainframe programming language course and/or Data Processing/Computer Science course, and two years experience as stated above in (a); or (d) four years experience as stated above in (a).

\*SPECIAL NOTE: Education beyond the secondary level must be from an institution recognized or accredited by the Board of Regents of the New York State Education Department as a post-secondary, degree-granting institution.