



COBOL Programming

Five days

Course Description: The course starts with an overview of structured programming concepts. The four divisions of a COBOL program and their functions are reviewed in detail. Students will gain hands on experience through a series of class discussions and workshop exercises that include several modifications to a skeletal COBOL program. File processing, program looping, conditional program statements, and table processing are covered in detail. Development of clear and understandable program designs is stressed along with building maintainable programs. Program debugging techniques are also discussed.

Audience: The course is for entry-level students who must understand, design, code, test, and debug COBOL programs.

Prerequisites: Six months experience with TSO/ISPF is required. No previous COBOL experience is needed.

Topics:

DAY 1 – INTRODUCTION

- Introduction to Structured Techniques

COBOL PROGRAM COMPONENTS

- Identification Division
- Environment Division
- Data Division
- Procedure Division
- Program Examples

INPUT / OUTPUT OPERATIONS

- Environment Division - SELECT and ASSIGN
- Procedure Division - FD and Record definition
- Procedure Division - OPEN/CLOSE, READ/WRITE

PROGRAM CONTROL STATEMENTS

- The Family of PERFORMs
- End processing statements - GOBACK
- Conditional Statements – If, Evaluate
- E. Statement Terminators (-END)
- F. Sub Program Access - CALL statement
- Hands-on Workshops

DAY 2 – HANDS-ON WORKSHOPS

PROGRAM CODE

- Data Storage Types
- Character and Numeric Moves
- Edit Picture Characters
- Special Features - Reference Modification, Figurative Constants,
- Special Registers, INITIALIZE, SET, STRING, COPY
- Arithmetic statements – Add, Subtract, Multiply, Divide, Compute

DAY 3 - HANDS-ON WORKSHOPS

TABLE PROCESSING

- Table definitions
- Search modes - SEARCH, SEARCH ALL
- Subscripting vs. indexing

DAY 4 - HANDS-ON WORKSHOPS

- Additional Topics - Internal SORT, Debugging Abends, Intrinsic Functions,
- File Status, Calls to LE

DAY 5 - HANDS-ON WORKSHOPS