



Advanced COBOL Programming

Five days

Course Description: The course is a combination lecture, discussion, and hands-on workshop in several COBOL topics. Write a program to load and read single and multi-dimensional tables. SORT a sequential file in a COBOL program using both Input and Output procedures. Write a program to accept data from the PARM field in JCL and to pass data to a subprogram. Use COBOL Intrinsic Functions such as upper case and Current Date. Write calls to the Language Environment to access system data. Debug common abends including the infamous S0C7, S013, S0C1, S0C4 with Abend Aid and/or LE Dump.

Build a series of programs for a “typical” batch job scenario.

Audience: The course is for experienced COBOL programmers who need to become proficient in several “advanced” topics.

Prerequisites: Six months experience with TSO/ISPF and COBOL is required.

Topics:

MODULE 1:

- Access single and multi-dimensional tables
- Use the SEARCH and SEARCH ALL verbs
- SORT a file data using the Internal SORT along with input and output procedures

MODULE 2:

- Pass values to a COBOL program via the JCL PARM field
- Pass information from a COBOL main program to a COBOL subprogram

MODULE 3:

- Use COBOL Intrinsic Functions to save excessive coding
- Call to the Language Environment

MODULE 4:

- Debug common programming problems
- Solving several common program abends

MODULE 5: ADVANCED PROGRAMMING CASE STUDY

- Edit Program
- Multi-dimension Tables

- SORT Program
- Typical Program Abends
- Update Program
- Audit Trail
- Report Program
- End of Report Statistic
- Intrinsic Functions
- Calls to the LE Environment