



## **COBOL Programming Part II**

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**Duration:** 3 Days

**Audience:**

Application Programmers with some previous experience in COBOL who require formal training beyond the basic language features and programming techniques.

**Pre-requisites:**

An understanding of computer concepts is assumed.

A working knowledge of TSO/ISPF is required. This can be gained from our z/OS TSO/ISPF Workshop.

**Course Objectives**

This extends the programmers knowledge beyond the subjects covered in COBOL Programming Part I. There is a wide range of topics which can be selected to suit requirements, and they are supplemented by 50 hands on.

**Course Content**

**Module 13: Indexed File Processing**

File types

File processing overview

Making COBOL aware of the VSAM KSDS; SELECT statement

Defining the cluster; FD statement

File status information

File instructions; Delete, Open, Read, Rewrite, Start, Write and Close.

Using Alternate Indices and their JCL implications

**Module 14: Relative File Processing**

File types

File processing overview

Making COBOL aware of the VSAM KSDS; SELECT statement

Defining the cluster; FD statement

File status information

File instructions; Delete, Open, Read, Rewrite, Start, Write and Close.



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### **Module 15: Dynamic File Allocation**

Static vs Dynamic allocation and impact on JCL  
Using BPXWDYN for input files  
Using BPXWDYN for output files  
Using setenv for input files  
Using setenv for output files  
Using the envar variable

### **Module 16: Dynamic Memory Allocation**

What does my Address Space look like?  
Dynamic memory Allocation Overview  
Memory mapping; LINKAGE SECTION and POINTERS  
ALLOCATE instruction syntax and use  
FREE instruction syntax and use

### **Module 17: Server Interfaces**

Introducing JSON  
WORKING-STORAGE implications  
Generating JSON wraps  
Unpacking JSON wrapped data  
Introducing XML  
WORKING-STORAGE implications  
Generating XML wraps  
Unpacking XML wrapped data

### **Module 18: Using the SORT feature**

Adding perspective, the SORT data flow  
Input filtering; E15 Exit  
Output filtering; E35 Exit  
Making COBOL area of the file; SELECT statement  
Defining the file; SD statement  
Performing the sort; SORT instruction  
Passing a record to the sort; RELEASE instruction  
Retrieving a sorted record; RETURN instruction  
How to cancel the sort