

AS/400 COBOL Differences And Interactive Programming in ILE COBOL/400

(CB55)

5 Days (40% Lecture, 60% Workshop)

This course is designed for those with a knowledge of the COBOL programming language who need to understand the extensions made for IBM's AS/400 version of ILE COBOL/400. A main focus is Database I/O and the way that COBOL/400 interacts with IBM i DDS (Data Description Specifications) to process Externally Described Database Files and internally defined files. Another main focus area is screen display files used for COBOL/400 interactive programming, as it replaces the IBM Mainframe CICS and screen panel programming model.

Prerequisites: Experience in writing COBOL programs. *Introduction to Programming Concepts and Facilities Workshop (AS15)* or equivalent experience.

Course Outline

Introduction

Batch programming in COBOL/400
DB2/400 Database Concepts
File I/O Concepts
Library List Concepts *LIBL
Overriding Database File Options
DDS Fundamentals
Working with Indicators in COBOL
Externally vs. Program Described Files

Interactive Programming Concepts

Conversational vs CICS
Pseudo-Conversational Method
Designing Display files
DDS for Display Files

Using the Screen Design Aid (SDA)

Creating Display Files
Defining Display Files in COBOL
Using Literals and I/O Data Fields
Function Key Management
Database Integration in Displays
Single and Multi-format Displays
User-friendly Pop-up Windows
COBOL/400 Design Issues

Defining and Using Display File

Data Structures

Using Indicators
Using the I-O Feedback Area
Using File Status Codes

Error Handling and Informational Messaging

How to Use IBM API's for Fast, Efficient Messaging
Create and Apply User Message Files
Tailor Dynamic Messaging for Program-specific Edits

Modular Coding in ILE COBOL/400

Detecting, Handling and Avoiding File and Record Locking Problems

Advanced Screen Processing

Using Subfiles in COBOL/400
The Scrollable-List Panels Made Easy
Types of Subfile Displays
Subfile Program Structure
Subfile vs. Non-subfile Implementations
DDS Keyword Interaction with COBOL/400
Displaying a Subfile for Data Inquiry
Subfile Loading Techniques
Page-at-a-time vs. Full Load
PageUp and PageDown Keys
Record Selection and Positioning

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