

IBM i (iSeries, AS/400) Concepts with ILE COBOL/400 Programming

(CB35)

5 Days (60% Lecture, 40% Workshop)

This course is designed for those with some basic experience with the COBOL language that need to write and maintain ILE COBOL/400 programs on the IBM i, iSeries, AS/400.

Students learn the program development tools and operating system concepts which are essential to productive and proper programming in ILE COBOL/400. Students will use the DB2 Relational Database and create and maintain DB2 Tables and Views along with Non-database Flat file structures needed in COBOL. All Concepts are reinforced by supervised Hands-on Lab exercises.

Students will receive an introduction to the Programmer's User Interface of IBM i, including the Menu System, Control Language Commands, and IBM supplied utilities required in program development. This class teaches the students to use the IBM tools Programming Development Manager(PDM) and Source Entry Utility(SEU). An overview of the Rational Developer Toolset is provided. This class does NOT cover Interactive Screen Programming Concepts with SDA.

This class provides the prerequisites needed to attend our ILE/RPG IV and ILE/COBOL 400 Programming Workshops.

Prerequisites: A basic knowledge and some experience with the COBOL Language.

Course Outline

Introduction to the IBM i (AS/400)

Basics of the System Architecture

The System i User Interface

The Menu System

Control Language

 The Command Line Interface

 Commands and Parameters

 The Prompt Facility

The Help Facility

5250 Keys – Sys Attn and SysRqs Keys

Viewing and Responding to Error Messages

Work Management Concepts

Interactive Sessions and Batch Jobs

Understanding Job Descriptions

Submitting Batch Jobs

The Object Based Architecture

Library Concepts

Object Types and Attributes

Understanding the Job Library List

Libraries Objects and Members

Using Program Development Mgr (PDM)

Working with Libraries, Objects and Members

 Using PDM

Customizing PDM for your use

Using the Source Entry Utility (SEU)

The Edit Display

SEU Line Commands

Find/Change Options

Browse/Copy Options

IBM DB2 Relational Database Concepts

Database Capabilities

Journaling and Commitment Control

Data Description Specifications

Creating Physical Files (Tables)

Creating Logical Files (Index View)

Using Interactive SQL with STRSQL

Programming in ILE COBOL/400

File Access Methods in ILE COBOL/400

Internally Described Files – Flat Files

Externally Described Files

 Created Using DDS Source Code

 Created Using SQL CREATE TABLE/VIEW

Using the COBOL Format 2 COPY Statement

COBOL standard I/O vs Embedded SQL

Using File Status Clause

OPM and ILE COBOL Differences

Programming Development Activities

Entering/Editing COBOL Source Code

Using the COBOL Language Compilers

Compiler Options, including DEBUG

Reviewing Compiler Listings

Using the OPM and ILE Debuggers

ILE COBOL/400 Differences

Using Indicators in ILE COBOL

Using the IBM Supplied Printer Files

Using Externally Described Printer Files

Using /COPY and other Compiler Directives

Differences when using Imbedded SQL

Defining and Using SQL Host Variables

For more information, call **(314) 932-2430** or **(800) 936-3140**

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