

IBM System i (AS/400) Concepts and Facilities

(AS15)

5 Days (65% Lecture, 35% Workshop)

This course provides an introduction to the IBM System i (AS/400) for Programmers and other technical staff that need to understand the technical capabilities of the IBM System i. The class focuses on understanding the system capabilities, program development tools, database concepts and system management from a programmer's perspective. The class uses the IBM Websphere Application Development Studio Toolset(5761-WDS) including PDM, SEU and SDA. An overview of other GUI development tools is provided.

This class serves to fill all the prerequisites for our Programming Workshops for RPG IV, COBOL and Control Language.

Prerequisites: A basic knowledge of computer concepts.

Course Outline

What is a System i?

History of the IBM i
i/OS Operating System Architecture
Communication Capabilities
Programming Languages

The System i User Interface

The Menu System
The System Control Language
 The Command Line Interface
 CL Commands and Parameters
 The Command Prompt Facility
The F1=Help Facility
Tailoring Your Assistance Levels
Using the Attn and SysReq Keys
Messages and Message Queues
 Sending & Viewing Messages

Work Management Concepts

Interactive and Batch Jobs
Controlling Jobs
Submitting and Scheduling Jobs
Understanding Job and Output Queues
Configuring and Working with Printers

Security Concepts Overview

System Level Security
Working with User Profiles
Special Authorities & Limited Capabilities
Object Authorities (Permissions, ACL)

System Values Overview

The Object Based Architecture

Library Concepts
Object Types and Attributes
The Job Library List
Libraries, Objects and Members

Using PDM (Program Dev Manager)

Working with Libraries, Objects and Members
Searching with the FNDSTRPDM command

Using Source Entry Utility (SEU)

The Source Code Edit Display

SEU Line Commands
Find/Change Browse/Copy Options

Creating Control Language Programs

Entering Source
Compiler Options
Running the Program

Integrated Database Concepts

DB2 Relational Database Support
Database Capabilities
Storage Management
Data Description Specifications
Creating Physical Files
Using Field Reference Files
Creating Logical Files
Using Data File Utility (DFU)
Using Interactive STRSQL
Journaling and Commitment Control

Using IBM's Query for i

Defining and Changing a Query
Selecting Reporting Options
Defining Result Fields
Using Expressions
Joining Files

DDS for Display Files

Screen Design Aid (SDA)

Creating Simple Displays
Adding Constants and Data Fields
Using Multiple Record Formats
Overlays and Windows
Creating Menus

Other Considerations - Overview

The Integrated File System
System i Navigator – GUI
Rational Developer for IBM i

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