

Programming Introduction to IBM i (iSeries, AS/400)

5 Days (65% Lecture, 35% Workshop)

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

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

Prerequisites: A basic knowledge of computer concepts.

Course Outline

Introduction to IBM i, AS/400, iSeries

- Brief History of the IBM i
- IBM i Operating System Architecture
- Communication Capabilities
- Programming Languages

The IBM i User Interface

- The Menu System
- The System's Control Language
 - The Command Line Interface
 - CL Commands and Parameters
 - The Command Prompt Facility
- Using the F1=Help Facility
- Tailoring Your Assistance Levels
- Using the ATTN and SysReq Keys
- Creating and Viewing Printed Reports
- Messages and Message Queues
 - Sending & Viewing Messages

The Object Based Architecture

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

Using PDM (Program Dev Manager)

- Working with Libraries, Objects and Members
- Working with PDM User Defined Options

Using Source Entry Utility (SEU)

- The Source Code Edit Display
- SEU Line Commands
- Find/Change Browse/Copy Save Options

Creating Control Language Programs

- Entering CL Source Code using SEU
- Compiling and the Compiler Options
- Running CL Programs

Integrated Database Concepts

- DB2 Relational Database Support
- Database Capabilities
- Journaling and Commitment Control Usage
- Data Description Specifications
- Creating Physical Files

- Using Field Reference Files
- Creating Logical Files, Views and Indexes
- File Access Using Data File Utility (DFU)
- Using Interactive SQL with STRSQL

Using IBM's Query for i

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

Using Data Areas

- Create, Access and Manipulate Data Areas
- The *LDA and Persistent Data Areas
- Data Area access in Control Language

System Values Overview

Work Management Concepts

- Interactive and Batch Jobs
- The Job Description Object
- Controlling Jobs
- Submitting and Scheduling Jobs
- Understanding Job and Output Queues
- Finding and viewing your Printed Output

Security Concepts Overview

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

DDS for Display Files

Using The Screen Design Aid (SDA)

- Creating IBM Style Menus
- Creating Simple Displays
- Adding Constants and Data Fields
- Importing Database Field References

Other Considerations - Overview

- The Integrated File System
- IBM i Navigator for Windows (OpsNav)
- Intro to Rational Developer for IBM i

For more information, call (314) 932-2430 or (800) 936-3140
Or e-mail info@400School.com

The 400 School, Inc – 1828 Canyon View Ct. – Chesterfield, MO 63017