IBM System i (AS/400) Concepts and Facilities

Course Summary

Description

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 including PDM, SEU and SDA. An overview of other GUI development tools is provided.

Topics

- What is a System i?
- The System i User Interface
- Work Management Concepts
- Security Concepts Overview
- System Values Overview
- The Object Based Architecture
- Using PDM (Program Dev Manager)
- Using Source Entry Utility (SEU)
- Creating Control Language Programs
- Integrated Database Concepts
- Using IBM's Query for i
- DDS for Display Files
- Screen Design Aid (SDA)
- Other Considerations - Overview

Audience

This course is designed for programmers, and other technical staff that need to understand the technical capabilities of the IBM System i..

Prerequisites

Students should have basic knowledge of computer concepts.

Duration

Five days

Due to the nature of this material, this document refers to numerous hardware and software products by their trade names. References to other companies and their products are for informational purposes only, and all trademarks are the properties of their respective companies. It is not the intent of ProTech Professional Technical Services, Inc. to use any of these names generically

ProTech
protechtraining.com

"Charting the Course ...

... to Your Success!"

IBM System i (AS/400) Concepts and Facilities

Course Outline

I. What is a System i?
- A. History of the IBM i
- B. i/OS Operating System Architecture
- C. Communication Capabilities
- D. Programming Languages

II. The System i User Interface
- A. The Menu System
- B. The System Control Language
- C. The Command Line Interface
- D. CL Commands and Parameters
- E. The Command Prompt Facility
- F. The F1=Help Facility
- G. Tailoring Your Assistance Levels
- H. Using the Attn and SysReq Keys
- I. Messages and Message Queues
- J. Sending & Viewing Messages

III. Work Management Concepts
- A. Interactive and Batch Jobs
- B. Controlling Jobs
- C. Submitting and Scheduling Jobs
- D. Understanding Job and Output Queues
- E. Configuring and Working with Printers

IV. Security Concepts Overview
- A. System Level Security
- B. Working with User Profiles
- C. Special Authorities & Limited Capabilities
- D. Object Authorities (Permissions, ACL)

V. System Values Overview

VI. The Object Based Architecture
- A. Library Concepts
- B. Object Types and Attributes
- C. The Job Library List
- D. Libraries, Objects and Members

VII. Using PDM (Program Dev Manager)
- A. Working with Libraries, Objects and Members
- B. Searching with the FNDSTRPDM command

VIII. Using Source Entry Utility (SEU)
- A. The Source Code Edit Display
- B. SEU Line Commands
- C. Find/Change Browse/Copy Options

IX. Creating Control Language Programs
- A. Entering Source
- B. Compiler Options
- C. Running the Program

X. Integrated Database Concepts
- A. DB2 Relational Database Support
- B. Database Capabilities
- C. Storage Management
- D. Data Description Specifications
- E. Creating Physical Files
- F. Using Field Reference Files
- G. Creating Logical Files
- H. Using Data File Utility (DFU)
- I. Using Interactive STRSQL
- J. Journaling and Commitment Control

XI. Using IBM's Query for i
- A. Defining and Changing a Query
- B. Selecting Reporting Options
- C. Defining Result Fields
- D. Using Expressions
- E. Joining Files

XII. DDS for Display Files

XIII. Screen Design Aid (SDA)
- A. Creating Simple Displays
- B. Adding Constants and Data Fields
- C. Using Multiple Record Formats
- D. Overlays and Windows
- E. Creating Menus

XIV. Other Considerations - Overview
- A. The Integrated File System
- B. System i Navigator – GUI
- C. Rational Developer for IBM i

Due to the nature of this material, this document refers to numerous hardware and software products by their trade names. References to other companies and their products are for informational purposes only, and all trademarks are the properties of their respective companies. It is not the intent of ProTech Professional Technical Services, Inc. to use any of these names generically