



IBM i Concepts and CL Programming

(5 day Instructor-Led Course)

The *IBM i Concepts and CL Programming* workshop introduces overall IBM i (iSeries, AS/400) concepts, including object architecture, user interface, and basic work management concepts. In addition to providing a comprehensive introduction to IBM i, this class introduces Control Language programming concepts and helps you understand its primal position in the IBM i world, including its role in the Integrated Language Environment (ILE).

Recommended Schedule: 5 day lab workshop

Who Should Attend

This class is appropriate for programmers who need an introduction to the IBM i operating system, and who will be writing Control Language programs to direct processes on the server.

Prerequisites

No previous knowledge of IBM i or CL is required.

What You Will Accomplish

At the end of the course, students will be able to:

- Navigate IBM i menus to accomplish a task
- Understand basic work management concepts
- Identify various operating system objects and how they are organized and used
- Understand basic database concepts and identify data retrieval tools
- Enter Control Language commands into the system
- Use the CL prompt facility
- Compile CL programs
- Define and process variables in a CL program
- Use CL's program control structures
- Call programs and pass parameters to them
- Handle errors which may occur during the running of a CL program
- Use CL to process data files and displays



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- Process system information from data areas and system values
 - Understand CL's role in the Integrated Language Environment (ILE)

What You Will Receive

Each student receives:

- Custom printed handout, containing class notes
- Completion certificate

Course Outline

The class covers these topics:

- What is CL?
- Control Language Command Names
- Command Parameters
- Creating CL Programs
- The Structure of a CL Program
- Declaring Program Variables
- Manipulating Variables with the CHGVAR Command
- CL Control Structures
- Expressions
- Controlling Workflow
- Error Handling
- Passing Parameters
- Retrieving and Changing External Attributes
- Files and Data Areas
- Understanding the Job Log
- Understanding the Integrated Language Environment

Lab Exercises

- Declaring and Manipulating Variables
- Using Expressions
- Controlling Program Flow
- Error Handling
- Calling Programs
- Passing Parameters



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- Processing Database Files
 - Using Display Files
 - Processing an Outfile
 - Retrieving External Attributes
 - Reading Data Areas
 - Using System Values
 - Creating CL Procedures

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