

Expanded IBM i (iSeries, AS/400) ILE Control Language Programming Workshop

Course Summary

Description

This class provides a comprehensive introduction to the IBM i (iSeries, AS/400) Control Language, and focuses on writing programs using the ILE Control Language.

ILE Control Language is the main operating system scripting language for IBM i, and has been greatly enhanced in recent years. This class is current with all the newest Control Language enhancements.

The students will write, test, and debug numerous ILE Control Language programs of increasing complexity.

Topics

- Introduction to Control Language
- Basic CL Programming
- Input/Output in a CL Program
- Error Handling and Messages
- Using IBM Supplied APIs in CL
- Running CL Commands from RPG and COBOL
- Selective Prompting for Commands
- Using CL Programs for Displays
- Understanding and Modifying
- CL Command Attributes
- Creating Your Own Commands
- Newest CL Enhancements

Audience

This course is designed for those wanting a comprehensive introduction to the IBM i (iSeries, AS/400) Control Language, that focuses on writing programs using the ILE Control Language

Prerequisites

Before taking this course, you should have taken the Programming Introduction to IBM i (iSeries, AS/400) course (PT1301) or have equivalent knowledge/experience with IBM Programming Tools.

Duration

Five days

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Course Outline

- I. Introduction to Control Language**
 - A. What is CL?
 - B. Command Names
 - C. Command Parameters
 - D. The AS/400 User Interface
- II. Basic CL Programming**
 - A. Creating CL Programs
 - B. CLP and CLLE Programs
 - C. Structure of a CLLE Source Member
 - D. Declaring Variables
 - E. Manipulating Variables
 - F. Numeric and Character Manipulation
 - G. Using the Built In Functions
 - H. CL Control Structures
 - I. Using Complex Expressions
 - J. Restart-ability - Controlling Workflow
 - K. Error Handling using MONMSG
- III. Input/Output in a CL Program**
 - A. Passing Parameters
 - B. Using external information
 - C. Using the RTV* Commands
 - D. Using Files and Data Areas
 - E. Using *OUTFILES and QTEMP
- IV. Error Handling and Messages**
 - A. Working with Message Files
 - B. Message Handling Commands
 - C. Using the MONMSG Command
 - D. Error Handling in CL programs
 - E. Advanced message and error handling
- V. Using IBM Supplied APIs in CL**
 - A. QCMDEXC
 - B. QUSCMDLN
 - C. Other APIs
- VI. Running CL Commands from RPG and COBOL**
- VII. Selective Prompting for Commands**
- VIII. Using CL Programs for Displays**
 - A. Basics of Using Screen Design Aid
 - B. SNDF RCVF SNDRCVF Commands
- IX. Understanding and Modifying CL Command Attributes**
 - A. CHGCMD
 - B. CHGCMDDFI
- X. Creating Your Own Commands**
 - A. Creating Proxy Command
 - B. Command Definition
 - C. CMD and PARM Usage
 - D. Command Processing Programs
- XI. Newest CL Enhancements**
 - A. Structured Operations
 - B. Additional Data Types
 - C. Pointer Operations
 - D. Multiple File Operations
 - E. Compiler Directing Commands
 - F. ILE Modular Programming
 - G. New CL announcements