

Expanded IBM System i (AS/400) Control Language Programming Workshop

(CL15)

5 Days (40% Lecture, 60% Workshop)

This class provides a comprehensive introduction to the IBM System i (AS/400) Control Language, and focuses on writing programs using CL. The students will write, test and debug numerous Control Language programs in increasing complexity. This class is current with all the newest Control Language enhancements and the latest IBM announcements.

Prerequisites: Introduction to the IBM i (AS/400) for Programmers, Analysts and Project Managers (AS15) or equivalent knowledge/experience.

Course Outline

Introduction to Control Language

What is CL?
Command Names
Command Parameters
The AS/400 User Interface

Basic CL Programming

Creating CL Programs
CLP and CCLE Programs
Structure of a CL Source Member
Declaring Variables
Manipulating Variables
CL Control Structures
Using Complex Expressions
Restart-ability - Controlling Workflow
Error Handling using MONMSG

Input/Output in a CL Program

Passing Parameters
Using external information
Using Files and Data Areas
Using *OUTFILES and QTEMP

Error Handling and Messages

Working with Message Files
Message Handling Commands
Error Handling in CL programs
Message Queue Break Handling Programs
Advanced message and error handling

Using System i APIs in CL

QCMDCHK
QCMDEXC
QUSCMDLN
Other APIs

Running CL Commands from RPG and COBOL

Selective Prompting for Commands

Understanding and Modifying Command Attributes

CHGCMD
CHGCMDDFT

Creating Your Own Commands

Command Definition
Setting Prompt Attributes
Command Processing Programs
Validity Checking Programs
Creating Proxy Commands

Newest CL Enhancements

Structured Operations
New Data Types
Creating Command Help
Multiple File Operations
Compiler Directing Commands
New CL announcements

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