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
- QCMDSEX
- 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

---

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. – St. Louis, MO 63017