

OL20: System i Control Language Programming Workshop

Course code	OL20VN	Delivery type	Classroom (Hands-on labs)
Duration	4.0 days	Course type	Public or Private on-site
List price	Call for price		

This **classroom** course is designed to teach the students to write control language (CL) programs which may be used to perform a variety of system and application control functions. The students are taught to write basic and intermediate level, interactive, and batch CL programs, user commands, and CL programs that function as user tools (programs that use the output of display commands as input).

Abstract

This **classroom** course is designed to teach the students to write control language (CL) programs which may be used to perform a variety of system and application control functions. The students are taught to write basic and intermediate level, interactive, and batch CL programs, user commands, and CL programs that function as user tools (programs that use the output of display commands as input).

Audience

This course is intended for application programmers, system programmers, and others who have a need to write control language programs.

Pre-requisites

Before taking this course, the student should be able to:

- Write simple programs in another programming language
- Perform basic i5/OS (OS/400) operations
- Code the commands necessary to send inquiry and information messages
- Use data description specifications (DDS) and the WebSphere Development Studio (WDS) tools, (PDM and SEU) to create physical, logical, and display files
- Use the WDS tools to enter CL source statements and create CL programs
- Describe basic work management
- Create a library, output queue, and a job description

These prerequisites can be met through successful completion of the following courses:

- *i5/OS (OS/400) Technical Introduction*
- *System i Programming Facilities*

Objective

After completing this course, you should be able to:

- Create CL programs that incorporate the full range of language operations and functions: Arithmetic, string, and boolean expressions, Relational operations, Built-in functions, File handling, Message handling, Retrieving system information, and Program interaction and parameter passing
- Use the interactive source debugging facilities of STRDBG
- Describe how to create and call ILE modules, programs, and service programs
- Create user-defined commands with and without parameters
- Create a control language program that processes a database file
- Create and invoke a program that is activated periodically and executes asynchronously from other jobs
- State the purpose of the parameters on the CRTBNDCL command and each section of the control language compiler listing

Key topics

Day 1

- (0:15) Unit 1 - Class Administration
- (2:00) Unit 2 - Basic CL Programming (Topic 1)
- (0:45) Lab 1
- (1:00) Lunch
- (1:30) Unit 2 - Basic CL Programming (Topics 2 and 3)
- (3:00) Labs 2 - 6

Day 2

- (0:45) Unit 3 - Program Creation and Debugging (Topic 1)
- (1:15) Unit 3 - Program Creation and Debugging (Topics 2 and 3)
- (1:00) Lab 7
- (1:00) Lunch
- (1:15) Unit 4 - Intermediate CL Programming (Topic 1)
- (2:45) Labs 8 - 9

Day 3

- (1:30) Unit 4 - Intermediate CL Programming (Topic 2)
- (1:30) Labs 10 - 11
- (1:00) Lunch
- (0:30) Unit 4 - Intermediate CL Programming (Topic 3)
- (2:00) Labs 12 - 14
- (0:30) Unit 4 - Intermediate CL Programming (Topic 4)
- (1:00) Lab 15

Day 4

- (0:40) Unit 5 - Batch Jobs
- (1:20) Labs 16 - 17

- (1:00) Unit 6 - Commands (Topic 1)
- (1:00) Lunch
- (1:00) Lab 18 Parts A, B, and C
- (1:00) Unit 6 - Commands (Topic 2)
- (2:00) Lab 18 Parts D and E