

## OL49: System i Application Programming Facilities Workshop

---

Course code	OL49VN	Delivery type	Classroom (Hands-on labs)
Duration	5.0 days	Course type	Public or Private on-site
List price	Call for price		

---

This course **introduces** many System i features and programming facilities, including the following:

- WebSphere Development Studio Client for System i (LPEX Editor, Remote Systems Explorer (RSE) and CODE Designer)
- Programming Development Manager (PDM)
- Source Entry Utility (SEU)
- Control Language
- iSeries Access for Windows and iSeries Navigator Interactive SQL

We also cover, but with less emphasis than the tools above:

- Screen Design Aid (SDA)
- Data File Utility (DFU)
- Query/400

Machine exercises give the student the opportunity to use and experiment with many of these facilities.

### Abstract

This course introduces System i programming features.

### Audience

Application developers and programmers, system analysts and IT managers who also develop and maintain System i applications.

### **Pre-requisites**

Before taking this course, you should be able to:

- Navigate System i menus
- Use common System i commands
- Use System i Help and System i Information Center
- Use a windows based PC and navigate PC menus and windows
- Explain programming concepts
- Write a simple program in any programming language

### **Objective**

After completing this course, you should be able to:

- Describe what application development tools are available
- Identify platform where tools are used
- Describe purpose and use of each tool
- Create a user profile, library, output queue and job description
- Describe the key elements of Work Management, security and device files
- Write a basic Control Language (CL) program to run application programs
- Define physical and logical files on the System i
- Create physical and logical files
- Use the basic features of the LPEX Editor to enter and maintain file definitions
- Use the basic features of the CODE Designer to design, create and maintain displays and reports
- Use Interactive SQL and iSeries Navigator to create schema, tables, views and indexes

### **Key topics**

#### **Day 1**

- Unit 1 - Class Administration and Introduction
- Unit 2 - System i Application Development Tools
- Unit 3 - System i Concepts and Overview
- Unit 4 - System i Access / Navigator
- Machine Exercise - Navigating iSeries Navigator
- Unit 5 - Managing Work Flow on the System i
- Unit 6 - Commands, Profiles and Libraries

#### **Day 2**

- Machine Exercise - Create Library and Work with Library List
- Machine Exercise - Modify Profile/Work with Job Description/Alternate Job
- Unit 7 - Introduction to System i Security
- Unit 8 - Control Language Programming

- Machine Exercise - Write a Basic CL Program
- Unit 9 - Basic Message Handling
- Machine Exercise - Using Messages

### **Day 3**

- Unit 10 - Creating Reports and Displays
- Machine Exercise - Editing Display File Source
- Machine Exercise - Designing and Creating Display Screens
- Machine Exercise - Designing and Creating Reports
- Unit 11 - DB2 UDB for System i
- Unit 12 - Accessing the System i Database Using SQL and iSeries Navigator

### **Day 4**

- Unit 12 - Accessing the System i Database Using SQL and iSeries Navigator (cont'd)
- Machine Exercise - Working with the Database Using iSeries Navigator
- Unit 13 - Defining Database Files Using DDS
- Desk Exercise - Code a Physical and a Logical File
- Unit 14 - Using the Legacy Toolset (PDM, SEU, CPYF)

### **Day 5**

- Machine Exercise - Using the System i Editors
- Machine Exercise - Code and Create Files/Use File-Related Commands
- Machine Exercise - Copy File
- Machine Exercise - Additional Physical and Logical Files
- Unit 15 - Wrap Up and Supplemental Exercises
- Machine Exercise - Build Display File and HLL Program
- Machine Exercise - Build a Menu Display Format with DDS
- Machine Exercise - Building a Menu Using Screen Design Aid
- Machine Exercise - SDA for Screen Formats
- Machine Exercise - Overrides
- Machine Exercise - Data File Utility (DFU)
- Machine Exercise - Query for System i