# Interactive RPG/400 Programming Workshop

5 Days (40% Lecture, 60% Workshop)

This course provides a comprehensive treatment of writing interactive programs in the RPG/400 language used on the IBM System i (AS/400).. Students will learn how to create, debug and maintain interactive applications, starting with very simple displays, and continuing through such advanced topics as Display Windows and Subfiles. This class is intended for the RPG/400 Programmer who needs a better understanding of interactive programming in RPG/400.

Prerequisites: A working knowledge of RPG/400 programming on the IBM System i, or the class Introduction to RPG/400 programming.

# **Course Outline**

#### Introduction

**D**.100

The System i (AS/400) Interactive Model The Display File and SDA

#### SDA (Screen Design Aid)

Using SDA Creating Interactive Menus Creating Interactive Help Text Using text display attributes Using color on the display Total control with SDA commands Add and manipulate data fields Using a file reference to easily build a screen The DDS Language for Display Files

Using RPG/400 as the Screen Driver Designing screens for RPG/400 Processing display files in RPG/400

**Types of Displays** Using Output only Displays Using Input/Output Displays

### Working with Screen Indicators

Numbered indicators Manipulating indicators in RPG/400 Conditioning Display attributes Conditioning Fields Overlapping Fields

### **RPG/400 Specifics**

File Specs for display files Using the File Information Data Structure READ Op-code WRITE Op-code EXFMT Op-code

### **Screen Control**

Using multiple screen record formats Editing Numeric Fields for output Using Input Keyword Add and Process Function Keys Cursor Positioning

#### Message Handling in screens

Using ERRMSG (Error Message) Keyword Using ERRSFL (Error Subfile) Keyword Using Message Subfiles for optimum control Understanding Program message queues Using the IBM Messaging APIs Creating a message file and adding messages

#### Develop, Code, Test and Debug Programs

Display fields and literals for output only Display Fields for both input and output Handling Complex displays Using SDA test utility Using the RPG/400 Debugger

## Handling Errors and Anomalies

Screen I/O Errors Avoiding Record Lock contentions Using Commitment Control for integrity

### Windows

Using Windows in your displays Window borders Opening Multiple windows at once Place a subfile in a window Creating an F4=Prompt result window Creating Help Text in a Window

Subfiles (Scrollable Lists) Using SDA to create Subfiles Processing Subfiles in RPG IV Output only Subfiles Input/Output Subfiles

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