

**Course Name:** RPG400 Programming

**Course Code:** ISRPP

**Duration:** 4 Days

**Price:** £ 2,200

**Prerequisites:**

Delegates should ideally have attended the System Facilities course (ISSFC) and Program Design (ISPGD) prior to this course or have hands on experience of using PDM, SEU, SDA and DDS.

**Course Outline:**

The course is aimed at programmers who will be developing or supporting RPG application programs. The modern RPGLE syntax will be referred to only. During the course multiple screen enquiry, reporting, and maintenance programs will be designed, developed and linked together.

**Course Content:**

- External Printer file definition
- The structure of a report
- Processing a report
- Evolution of RPG
- RPG source code:
  - Coding
  - Compiling
  - Binding
  - The structure
- The RPG specification types
- Indicators
- Figurative constants
- The calculation specification
- Basic Operation codes
  - Enquiry programs
- Interactive programs
- Operation codes
- Using and defining Subroutines

- Arithmetic Operation codes
  - Linking programs together
  - Operation codes for calling programs
  - Passing parameters
  - Database operations & Partial key processing
  - Operation codes for file maintenance
  - Debugging programs
  - Standard & interactive source debug
  - Uses of input specifications:
    - Named constants
    - Data structures
  - The program status data structure:
    - Introducing Subfiles
    - The subfile and control records
    - SDA for subfiles
    - Subfile programming
    - Types and techniques
    - Subfile program logic
    - File specifications
    - Operation codes for processing subfiles
  - Data areas:
    - The local data area
    - Operation codes for data areas
  - Arrays:
    - The definition of an array
    - Extension specifications
    - Compile time arrays
  - Using subscripts:
    - Operation codes for arrays
- The concept of file maintenance:
- The logic of a file maintenance program
  - Operation codes for file maintenance
  - Record locking
  - Data validation
  - Error messages
  - Using DDS keywords
  - Validation loops
  - Presence and absence checking

**Follow on Courses:** Advanced RPG/400 programming (ISRPT) or Cross over to Modern RPGLE (ISR4X). Also consider Power RPG with SQL (ISSQE) and RPG Subfile programming (ISRPS).

**Schedule:**  
2025

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec

Dates available on request – Please call or email for details