



# GEMKO Information Group, Inc.

Information Systems Specialists

## 21<sup>st</sup> Century IBM i Developer Training Student Courses

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### Course 1 – Not Your Father's RPG

Length: 2 days

**Delivery Method:** Instructor led, group-paced, classroom delivery learning model with structured hands-on activities.

**Course Description:** This is an intense RPG programming training workshop which explore the modern RPG language and problem solving methodology on the IBM i (formerly AS/400), up to and including the latest release.

**Course Objective:** You will receive sufficient exposure and hands on experience to become productive writing programs in RPG IV right away. Emphasis is on free form style – no fixed form is taught.

**Target Student:** This course is designed for either programmers experienced in legacy fixed form versions of RPG, or programmers experienced in other languages without any RPG background.

**Prerequisites:** Course 0 (for non-RPG programmers) or (for established RPG programmers) measurable experience with RPG II (System/36), RPG III (System/38 or AS/400) or fixed form RPG IV (AS/400).

**Performance Based Objectives:** Upon successful completion of this course, students will be able to:

- Reduce or eliminate hard coded data definitions in programs
- Define working storage more strategically to reduce non-productive program tasks
- Streamline cumbersome calculations with efficient new free form functions
- Reduce or eliminate the use of numbered indicators
- Leverage modern data types to perform tasks once relegated to program code
- Integrate new coding techniques within existing legacy code
- Introduce syntax and logic flow more consistent with cross platform modern languages

#### Course Content:

- High level overview of RPG III vs. RPG IV
- Evolution of traditional specification types (H, F, I, O)
- The D specification in detail
- Freeform calculation specs
- "Array" of sunshine
- Some pointers on pointers
- Old faithful op-codes and new friends
- Built-in Functions
- Reference sources
- Comprehensive labs