



# GEMKO Information Group, Inc.

Information Systems Specialists

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

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### Course 4 – Triggers & API's

Length: 1 day

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

**Course Description:** This RPG programming training workshop exhibits how to utilize database triggers, built into DB2, in order to better enforce business rules. API's provide access to IBM i resources above and beyond those of RPG IV and i/OS.

**Course Objective:** You will learn how to give your business logic a more “event driven” design, thus making it less defined by software and more defined by the database itself. Also, how to interface with or manipulate various IBM i objects via API's.

**Target Student:** This course is designed for programmers who have become proficient in the RPG IV and are seeking to improve the integrity of their database, as well as take advantage of more resources available on their IBM i or other platforms on their network.

**Prerequisites:** Courses 1, 2 or comparable experience.

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

- Identify opportunities to introduce work flow to their applications
- Write and apply trigger programs to database files safely
- Use the trigger buffer strategically
- Make future trigger programs easier
- Apply referential integrity rules to database files
- Test and attempt to violate these rules
- Interpret documentation in the API Finder
- Construct prototypes for API's
- React to API feedback

#### Course Content:

- The concept of work flow
- How triggers work
- RPG trigger programs & gotchas
- SQL triggers
- Referential integrity on IBM i
- Handling rules violations
- Navigating the API library
- Interfacing with API's
- Performance considerations
- Comprehensive labs