

Course Syllabus: Getting Started with Magic xpa 2.x RIA

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1 Course Objectives and Goals

Magic xpa provides all aspects of the application development and deployment process within a single end-to-end platform. It features a ready-made business application engine that simplifies the code-writing process and enables the developer to deploy faster to the market, using fewer resources.

The main goal of this course is to enable the students to acquire the essential entry level programming skills to develop a basic Rich Internet Application (RIA) using Magic xpa.

The structure of the course guides the students from basic to complex and progressively builds up the students' knowledge of working with Magic xpa.

Upon successful completion of the course, the students will:

- .1 Gain an understanding of the Magic xpa programming method in a RIA architecture.
- .2 Become familiar with the Magic xpa Studio interface.
- .3 Create basic Magic xpa programs, in a RIA architecture, that:
 - Have a full graphical user interface.
 - Work with an external database.
 - Exhibit one-to-one and one-to-many data source relationships.
 - Produce reports.

The course is intensive and incorporates the Magic xpa programming method, layer by layer, and therefore relies heavily on practice.

The student will carry out practical examples and exercises throughout the course.

2 General Course Details

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|--------------------|---|
| Course ID: | UCGSMARI2 |
| Level: | Entry level |
| Available Formats: | Classroom instructor-led training (ILT) Private on-site training Classroom course open to the general public Self-paced learning |
| Target Audience: | Anyone interested in building RIA applications using Magic xpa. As well as: programmers, IT architects, system analysts, and so on. |
| Duration: | A total of 30 learning hours over a period of 5 days* |

** Magic University may change the course's content/duration with no prior notification.*

The stated course duration refers to classroom instructor-led training, and does not include IT-related setup time (PC, etc.). If required, additional time will be allocated for this.

3 Technical Material

Technical courseware will be provided with all the information required for completing the course including exercises, sample solutions and programs that will further develop the students' knowledge. All of this is on the course CD, which also includes Magic xpa.

4 Lessons

The course consists of the following lessons:

1. Magic xpa Studio Interface
2. Creating Your First Program
3. Data Manipulation
4. Data Validation
5. Setting Initial Values
6. Setting the Form's Appearance
7. Viewing Data Source Content
8. Object Data Centralization
9. The Application Engine Concept
10. Events
11. Handlers
12. Conditioning a Block of Operations
13. Repository Manipulation Tools
14. Find Reference
15. One-to-One Data Relationships
16. Selecting Data from a List
17. One-to-Many Data Relationships
18. More About the Deployment Engine
19. Reports
20. Complex Reports
21. Processing Data by Groups
22. Menus
23. Application Deployment

5 Prerequisites and Magic xpa 2.x RIA Learning Paths

5.1 Entry Level Learning Path

There are **no** prerequisite Magic University courses required to attend this course. However, experience shows that students with the background described below, find it easier to achieve the course goals:

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| Language | English reading/writing |
| IT Background | Basic understanding of the structure of an information system and database concepts, such as tables, rows, fields, and relationships between tables. These topics are not covered in the core course; however, they can be, upon an advanced request. If required, additional time will be allocated for this. |

5.2 Experienced Magic Software Open Client Programmers' Learning Paths

This course is an entry level course and therefore, experienced Magic Software programmers who are interested in becoming Magic xpa 2.x RIA programmers, should, **instead of this course**, refer to the courses below:

| Refer to Courses | eDeveloper V9.4 | uniPaaS | Magic xpa 2.x |
|---|-----------------|---------|---------------|
| Experienced Open Client Programmer | | | |
| Migration from eDeveloper V9.4 to uniPaaS V1.x | + | | |
| Migration from uniPaaS 1.x to Magic xpa 2.x (selected chapters) | + | + | |
| RIA Programming for uniPaaS Developers (or equivalent course) | + | + | + |

6 Setting Up Your PC for this Course

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| Magic xpa License | The MGDEMO license for a standalone environment is included as part of the course CD. To use the course in a network environment setting, please obtain a Magic xpa MGCSTK evaluation license from your local Magic Software representative or trainer. |
| Computer Requirements | |
| Hardware minimum requirements | Pentium processor 1.8GHz and upwards 2GB RAM or greater At least 300Mb of free space |
| Display properties and font settings | Screen resolution of at least 1024x768 pixels Small fonts |
| Software Requirements | |
| Operating System | Windows XP, 2003 (Standard Edition), Vista®, 2008, and Windows 7. |
| Database | The course includes SQLite, which is a single-user SQL database. Therefore, no additional database is required. |
| .NET | .NET Framework 2.5 SP2 or 3.5 (.NET Framework 4 alone does not meet the current requirements.) |
| For Windows® XP / XP Pro users | Administrator access level is required. |
| PDF | The digital version of the course is in PDF format. You will need the PDF reader to view its contents. |