









4D Development - Programming Foundation

Level 2 Course

Course Duration: 2 day Course Code: 4D-DEV2

About the Course

4D provides a comprehensive Rapid Development environment that is both powerful and flexible. This course gives an introduction to the 4D programming environment and the comprehensive 4D Language. It explains 4D implementations.

Benefits

- Understand the 4D Method Editor.
- Learn the syntax and grammar of the 4D Language.
- Undestand the event driven programming model.
- Understand the structure of the 4D Documentation.
- Learn how to work with Record Selections and the Current Selection.
- Learn how to work with Records and the Current Record.
- Understand how to write a query in 4D.
- Learn how the print using Output Forms.
- Learn how to keep the end users working productively.
- Learn how to use the built-in Dialog commands and how to build custom Dialogs.

Prerequisites

It is recommended that you have attended our Level 1 4D Development - Getting Started course (4D-DEV1) or that you are familiar with the 4D Environment and Development Editors. No programming knowledge is assumed.

What Next?

4D Development - Programming - Advanced (4D-DEV3)

4D Development - Programming - Multi-User (4D-DEV4)

4D Development - Programming - Web Integration (4D-DEV5)

Course Content

4D Method Editor • Dialog • Alert • Request

Confirm • Custom Dialogs • Complex Dialogs • Method Editor

- Programming Syntax Parameters Operators Commands
- Functions 4D Documentation.

Tests in 4D • The "If" Test • The "Case of" Test.

Loops in 4D • The "For" Loop • The "While" Loop • The "Repeat" Loop.

Working with Selections • The Current Selection • All Records

• Record Navigation • Query Commands • Search Criteria •

Built Queries • Query Selection • Query by Formula • Sorting • Query Editor • Sort Editor • Deleting Records.

Working with Records • The Current Record • New Record •

Create Record • Save Record • The Record Stack • Deleting a Record • Physical or Logical Deletion.

User Interface • Opening Windows • Setting Forms • Display Selection • Modify Selection.

Structure Access • Relations and Field Information • Automatic Relations.

Variables • Creating and Assigning Variables • Types of 4D Variables • Variable Scope • Introduction to Processes.

4D Programming Model • Structured Programming • Which Method Types to use? • Triggers • Form Methods • Object

Methods • Project Methods • Execution Sequence.

Events • Form Events • Events for Displaying Records • Events for Printing Records • Trigger Events • Database Events • On Startup Method.

Printing • Print Selection • Advanced Output Form for Printing • Print Settings and Page Set Up • Print Preview.

Dialogs • Alert • Request • Confirm • Custom Dialogs Complex Dialogs.

4D Compiler • Interpreted vs. Compiled • Compiler Settings • What is created • Do's and Don'ts.

To make a course booking or to discuss your training requirements, please call us on 020 8245 4545 or email training@mehdiward.com.

