



Microsoft 365 Excel – Dynamic Array Functions

Course Description: This course will introduce you to the power of new dynamic array functions available in Excel 365. Dynamic array formulas return multiple results to a range of cells based on one formula. One formula, many values.

Now, you can write a formula, hit the enter key and get an array of values returned (or “*spilled*”) to the grid. These new functions allow you to build more capable spreadsheets, faster, with fewer formulas and less chance of error.

Duration: Instructor-led, group-paced, classroom-delivery learning model with structured hands-on activities – 7 hours (1 day).

Course Objectives: Understand the new Excel calculation engine for use with Dynamic Array functions and how legacy functions operate in the new environment.

Upon successful completion of this course, students will be able to:

- ⇒ Understand the new Excel Dynamic Array calculation engine
- ⇒ Utilize the new Dynamic Array functions
- ⇒ Understand Spill Ranges (*Spilled Arrays*)
- ⇒ Understand compatibility with other versions of Excel (*non-Office 365 installations*)
- ⇒ Working with Legacy Excel functions using the new Dynamic Array Calculation Engine

Prerequisites: Excel levels 1, 2, and 3 (or comparable Excel experience)

Course Outline

Dynamic Array Function Overview

- ⇒ Understanding the new Calculation Engine
- ⇒ Introduction to Spill Ranges (*Spilled Arrays*)
- ⇒ Spill Range Interference Issues (*troubleshooting*)
- ⇒ Restricting Results Using the @ Symbol

New Dynamic Array Functions

- ⇒ SEQUENCE
- ⇒ FILTER
- ⇒ TRANSPOSE
- ⇒ SORT
- ⇒ SORTBY
- ⇒ RANDARRAY
- ⇒ UNIQUE
- ⇒ XLOOKUP
- ⇒ XMATCH

Compatibility with non-Office 365 Excel Versions

- ⇒ Impact on Legacy Excel Formulas
- ⇒ Backward & Forward Compatibility

Spill Range Operation

- ⇒ Absolute, Relative, & Mixed Cell Referencing
- ⇒ Referencing Spilled Data Ranges

DA Functions Working with Other Excel Functions

- ⇒ Integrating Logical functions (AND / OR)
- ⇒ Creating Named Array Constants
- ⇒ Top/Bottom Reports using LARGE / SMALL
- ⇒ Using functions previously dependent on older array syntax notation (*CTRL-Shift-Enter*)