



# Excel - Advanced

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## 1-Day Curriculum for Advanced Excel - Analysts and Engineers

### Objective:

To enhance the Excel skills of analysts and engineers by focusing on advanced functions, data analysis, and automation tools.

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### Welcome and Introduction (15 minutes)

- Overview of objectives and the importance of Excel in data analysis.

### Advanced Formulas and Functions (45 minutes)

- Deep dive into array formulas, INDEX/MATCH, and dynamic arrays.
- Practical exercise: Applying advanced functions to engineering data.

### Break (10 minutes)

### Data Analysis with Excel (1 hour)

- Using PivotTables and Power Query for complex data analysis.
- Hands-on exercise: Analyzing large datasets with Excel.

### Lunch Break (30 minutes)

### Automation with Macros and VBA (1 hour)

- Introduction to macros and basic VBA scripting for process automation.
- Practical exercise: Creating and running macros in Excel.

### Break (10 minutes)

### Data Visualization and Dashboards (1 hour)

- Creating advanced charts, interactive dashboards.
- Hands-on exercise: Building a dashboard for engineering analysis.

### Wrap-Up and Q&A (20 minutes)

- Summary, open Q&A, and next steps.

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