

Microsoft® Office Excel® 2016: Part 3 **[Exams 77-727 & 77-728]**

Course Specifications

Course Number: ELK91-057_rev1.1

Course Length: 1.0 day(s)

Course Description

Clearly, you use Excel a lot in your role. Otherwise, you wouldn't be taking this course. By now, you're already familiar with Excel 2016, its functions and formulas, a lot of its features and functionality, and its powerful data analysis tools. You are likely called upon to analyze and report on data frequently, work in collaboration with others to deliver actionable organizational intelligence, and keep and maintain workbooks for all manner of purposes. At this level of use and collaboration, you have also likely encountered your fair share of issues and challenges. You're too busy, though, to waste time scouring over workbooks to resolve issues or to perform repetitive, monotonous tasks. You need to know how to get Excel to do more for you so you can focus on what's really important: staying ahead of the competition. That's exactly what this course aims to help you do.

This course builds off of the foundational and intermediate knowledge presented in the Microsoft® Office Excel® 2016: Part 1 and Part 2 courses to help you get the most of your Excel experience. The ability to collaborate with colleagues, automate complex or repetitive tasks, and use conditional logic to construct and apply elaborate formulas and functions will put the full power of Excel right at your fingertips. The more you learn about how to get Excel to do the hard work for you, the more you'll be able to focus on getting the answers you need from the vast amounts of data your organization generates.

This course covers Microsoft Office Specialist exam objectives to help students prepare for the Excel 2016 Exam and the Excel 2016 Expert Exam.

Course Objective: Upon successful completion of this course, you will be able to perform advanced data analysis, collaborate on workbooks with other users, and automate workbook functionality.

You will:

- Work with multiple worksheets and workbooks.
- Use Lookup functions and formula auditing
- Share and protect workbooks.
- Automate workbook functionality.
- Create sparklines and map data.
- Forecast data.

Target Student: This course is intended for students who are experienced Excel 2016 users and have a desire or need to advance their skills in working with some of the more advanced Excel features. Students will likely need to troubleshoot large, complex workbooks, automate repetitive tasks, engage in collaborative partnerships involving workbook data, construct complex Excel functions, and use those functions to perform rigorous analysis of extensive, complex datasets.

Course Outline

Prerequisites: To ensure success, students should have practical, real-world experience creating and analyzing datasets using Excel 2016. Specific tasks students should be able to perform include: creating formulas and using Excel functions; creating, sorting, and filtering datasets and tables; presenting data by using basic charts; creating and working with PivotTables, slicers, and PivotCharts; and customizing the Excel environment. To meet these prerequisites, students can take the following Logical Operations courses, or should possess the equivalent skill level:

- Microsoft® Office Excel® 2016: Part 1
- Microsoft® Office Excel® 2016: Part 2

Hardware Requirements

For this course, you will need one workstation for each student and one for the instructor. Each computer will need the following minimum hardware configurations:

- 1 GHz 32-bit or 64-bit processor
- 1 GB RAM (32-bit) or 2 GB RAM (64-bit)
- 25 GB available disk space
- DirectX 10 graphics card and a 1,024 × 576 or higher resolution monitor (1,024 × 768 resolution or higher monitor recommended)
- Keyboard and mouse (or other pointing device)
- Network cards and cabling for local network access
- Internet access (contact your local network administrator)
- Printer (optional) or an installed printer driver
- Projection system to display the instructor's computer screen

Software Requirements

- Microsoft® Office Professional Plus 2016
- Microsoft® Windows® 10 Professional or Enterprise

Although it may be possible to deliver course content by using Microsoft Office Excel 2016 on a Windows 7/8/8.1 installation, this course was written and tested on Windows 10 Pro. If you plan to teach this course using a different version of Windows, you should key through the course completely to note what will be different before you deliver the course to students.

Course Content

Lesson 1: Working with Multiple Worksheets and Workbooks

Topic A: Use Links and External References

Topic B: Use 3-D References

Topic C: Consolidate Data

Lesson 2: Using Lookup Functions and Formula Auditing

Topic A: Use Lookup Functions

Topic B: Trace Cells

Topic C: Watch and Evaluate Formulas

Lesson 3: Sharing and Protecting Workbooks

Topic A: Collaborate on a Workbook

Topic B: Protect Worksheets and Workbooks

Lesson 4: Automating Workbook Functionality

Topic A: Apply Data Validation

Topic B: Search for Invalid Data and Formulas with Errors

Topic C: Work with Macros

Lesson 5: Creating Sparklines and Mapping Data

Topic A: Create Sparklines

Topic B: Map Data

Lesson 6: Forecasting Data

Topic A: Determine Potential Outcomes Using Data Tables

Topic B: Determine Potential Outcomes Using Scenarios

Topic C: Use the Goal Seek Feature

Topic D: Forecasting Data Trends

Appendix A: Microsoft Office Excel 2016 Exam 77-727

Appendix B: Microsoft Office Excel 2016 Expert Exam 77-728

Appendix C: Microsoft Excel 2016 Common Keyboard Shortcuts

Appendix D: Cube Functions

Appendix E: Importing and Export Data

Appendix F: Internationalizing Workbooks

Appendix G: Working with Power Pivot

Appendix H: Advanced Customization Options

Appendix I: Working with Forms and Controls