



Digital Literacy II: Office Productivity

Unit 3 Spreadsheets

LAB 1 Excel Fundamentals

Objectives

- Identify elements of Excel's interface
- Create and manage workbooks and sheets
- Enter, edit, and format data
- Sort, filter, and illustrate data

Equipment Required

- Notebook computer
- Microsoft Excel 2013

Introduction

In this lab, you will demonstrate your ability to navigate Microsoft Excel and perform fundamental skills to construct worksheets, edit, format, and organize data, and create charts to visually represent data. These skills are necessary to create a variety of business and personal spreadsheets in Excel.

In order to perform the lab Procedure, you should know how to:

- Navigate the Excel environment
- Identify and describe elements in Excel's interface
- Create, open, and save workbooks
- Insert, rename, and hide worksheets
- Move, copy, and delete sheets
- Enter and edit data
- Format cells, columns, and rows
- Sort and filter data
- Create charts





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Procedure

EXCEL INTERFACE

1. Review Diagram 1 at the end of this Procedure; fill-in the blanks to match numbers in the diagram with the descriptions below
 - a. ____ Command Group: each group contains a series of different command buttons
 - b. ____ Ribbon: contains all of the commands you will need to perform common tasks
 - c. ____ Account Access: access Microsoft account information
 - d. ____ Name Box: displays the location or 'name' of a selected cell
 - e. ____ Worksheet Views: switch between Normal, Page Layout, and Page Break views
 - f. ____ Formula Bar: enter and edit data, formulas, and functions
 - g. ____ Quick Access Toolbar lets you access common commands no matter which tab is selected
 - h. ____ Scroll Bars: click, hold, and drag to scroll up and down or left and right in a spreadsheet
 - i. ____ Cell: the rectangle that is formed at the intersection of a column and a row
 - j. ____ Column: a group of cells, identified by a letter, that runs from top to bottom of the sheet
 - k. ____ Zoom Control: click, hold, and drag the slider to zoom-in or –out
 - l. ____ Worksheets/Sheet Tabs: Each Excel file (workbook) contains one or more worksheets
 - m. ____ Row: a group of cells, identified by a number, that runs from left to right on a sheet
2. Review Diagram 2 at the end of this Procedure; fill-in the blanks to match numbers in the diagram with the descriptions below
 - a. ____ Change Excel settings such as spell check, AutoRecover, and language preferences
 - b. ____ Create a blank document or choose a template
 - c. ____ Close Backstage view and return to the document
 - d. ____ Show information about the current document
 - e. ____ Preview the document, adjust settings, and output to a printer
 - f. ____ Access recent documents saved on your computer or OneDrive
 - g. ____ Store a new document or revised document on your computer or OneDrive
 - h. ____ Exit the current document
 - i. ____ Allow others to view and collaborate on a document
 - j. ____ Convert a document into a PDF format
 - k. ____ Access your Microsoft profile, modify theme and background settings, and sign out





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CREATING, SAVING, and OPENING WORKBOOKS

3. Launch Microsoft Excel 2013
4. Create a new blank workbook
5. Create a new workbook based on any template of your choice
6. Save the workbook to your Documents folder as “MyTemplate1.xlsx”
7. Close the document
8. Within Excel, **browse your computer** to locate and open “MyTemplate1. xlsx”
9. Save the document as “MyTemplate2. xlsx”
10. Pin “MyTemplate2. xlsx” to the Backstage view
11. Export “MyTemplate2. xlsx” in a PDF format
12. Close all workbooks

WORKSHEET BASICS

13. Open the workbook “Excel2013_SheetBasics.docx” (enable editing if necessary)
14. Rename each worksheet to the month’s abbreviation. For example, rename “January” to “Jan”
15. Insert a new worksheet and name it “temp”
16. Delete sheets “Sheet4”
17. Copy sheet “Mar” and rename it to “Apr”
18. Re-arrange the sheet tabs into the following order: Apr, Mar, Feb, Jan, temp

ENTERING and EDITING DATA

19. Open the workbook “Excel2013_CellBasics.docx” (enable editing if necessary)
20. Complete the following steps while being observed by the lab instructor:
 - a. Select cell B3
 - b. Select the range of cells from A3 to E6
 - c. In cell C5, enter “Josie”
 - d. Delete **the contents** of cell D6
 - e. Delete cell D3 shifting cells to the left (after completing this step, D3 should contain “Friday, March 08, 2013” and E3 should be empty)
 - f. Enter “Wendy” in C6





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- g. Copy and paste the contents of D5 into D6
- h. Enter “Loretta” and “Walter” in cells C7 and C8, respectively
- i. Cut and paste the contents of D4 into D7
- j. Drag and drop the contents of D5 into D8
- k. Select cell D6
- l. Use the fill-handle to copy D6 contents into D5 and D4
- m. Use the fill-handle to enter “Saturday, March 09, 2013” into cell E3
- n. Use the Find window to locate the entry for Ms. Fontaine
- o. Use Find and Replace to change “vestainsurance.com” to “vestainsurance.net” throughout the entire worksheet

ADJUSTING COLUMNS and ROWS

21. Open the workbook “Excel2013_ModColRow.docx” (enable editing if necessary)
22. Manually adjust the width of column A to fit the contents of cells A2 through A23
23. AutoFit the width of column B to fit the contents of all cells in the column
24. Insert a column between column C and column D
25. Enter “Home Phone” in D2
26. Insert a row between row 1 and row 2
27. Make the height of row 2 smaller, similar to:

	A	B	C	D	
1	Bulls Team Roster: Co-ed Softball 2013				
2					
3	First Name	Last Name	Cell Phone	Street Address	City, State,
4	Bonnie	Benjamin	502.555.1212	2027 Fairhardt Drive	

28. Delete column E
29. Delete the row of data for Mildred Persinger
30. Move column E (Positions) and place it between column B (Last Name) and column C (Cell Phone)
31. Hide column D and column E
32. Complete the following steps while being observed by the lab instructor:
 - a. Unhide columns D and E





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FORMATTING CELLS

33. Open the document “Excel2013_FormatCells.docx” (enable editing if necessary)
34. Format cell A3 as follows:
 - a. Font-type: Cambria
 - b. Font-size: 26pt
 - c. Font-color: a dark shade of yellow
 - d. Font-style: bold
35. Center-align the data in columns D, E, F, and G
36. Middle-align the data in rows 4 through 37
37. Apply “All Borders” to the range of cells from A4 through G37
38. Format cells A4 through G4 as follows:
 - a. Border: thick box border
 - b. Fill-color: light-gray
39. Apply the “Long Date” format to cells D4 through G4
40. Review Diagram 3 at the end of this Procedure; fill-in the blanks to match numbers in the diagram with the descriptions below
 - a. ____ Formats numbers with a dollar sign and two decimal places
 - b. ____ Default format for any cell
 - c. ____ Formats “0.25” as “¼”
 - d. ____ Formats numbers with two decimal places
 - e. ____ Formats “12/1/2015” as “Tuesday, December 01, 2015”
 - f. ____ Formats numbers similar to “10:25:00 AM”
 - g. ____ Formats numbers with a percent sign and decimal places
 - h. ____ Formats “140000” as “1.40E+05”
 - i. ____ The default format if a cell contains letters and numbers
 - j. ____ Formats numbers as Currency, but also aligns currency symbols and decimal points
 - k. ____ Formats “Dec 1, 2015” as “12/1/2015”
 - l. ____ Customize number formats





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SORTING DATA

41. Open the document “Excel2013_Sorting.docx” (enable editing if necessary)
42. Sort the Totals table in descending order by date (April 26, 2013 should be first)
43. Sort the order-details table by multiple columns in the following order:
 - a. Home Room #: Ascending
 - b. Payment Method: Descending
 - c. T-Shirt Size: Descending
 - d. Last Name: Ascending

FILTERING DATA

44. Open the document “Excel2013_Filtering.docx” (enable editing if necessary)
45. Filter the “Type” column (column B) so it displays only laptops and cameras
46. Add another filter by searching for EDI brand equipment in the Equipment Detail column (column C)
47. While being observed by the lab instructor, clear both filters

CHARTS

48. Open the document “Excel2013_Charts.docx” (enable editing if necessary)
49. Create a chart using cells A1 through F6 as the source data
50. Change the chart layout to Layout 8
51. Apply a chart style
52. Move the chart to a new worksheet named Book Sales Data 2008-2012.

End Procedure



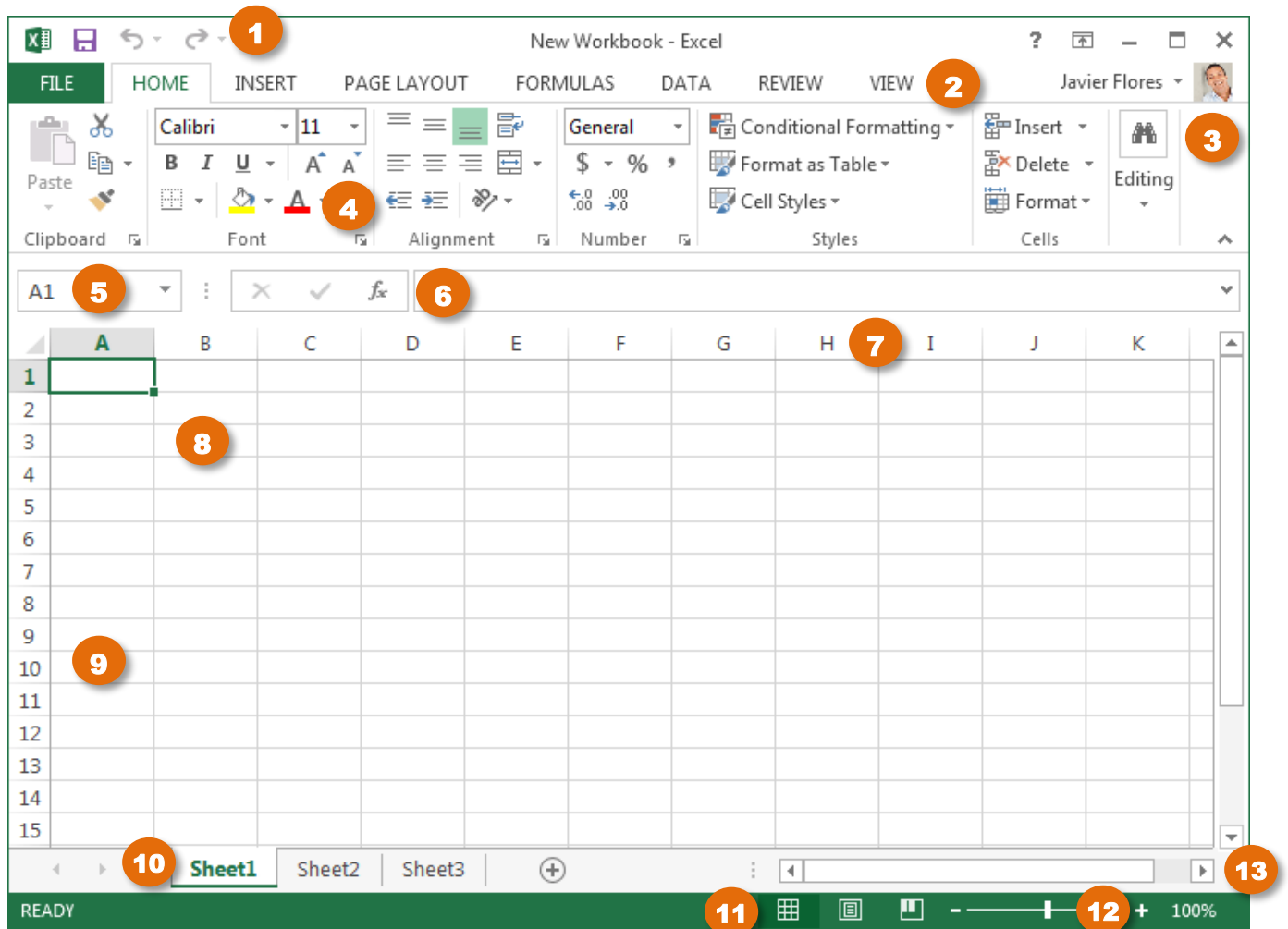


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DIAGRAM 1





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DIAGRAM 2

New Workbook - Excel

Javier Flores

Info

New Workbook

Desktop

Protect Workbook

Control what types of changes people can make to this workbook.

Inspect Workbook

Before publishing this file, be aware that it contains:

- Document properties, author's name and absolute path
- Content that people with disabilities find difficult to read

Manage Versions

There are no previous versions of this file.

Properties

Size: 7.46KB

Title: Add a title

Tags: Add a tag

Categories: Add a category

Related Dates

Last Modified: Today, 3:00 PM

Created: Today, 3:00 PM

Last Printed:

Related People

Author: Javier Flores

Add an author

Last Modified By: Javier Flores

- 1
- 2 Info
- 3 New
- 4 Open
- 5 Save
- 6 Save As
- 7 Print
- 8 Share
- 9 Export
- 10 Close
- 10 Account
- 11 Options





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DIAGRAM 3

The screenshot shows the Microsoft Excel interface. The 'Number' dropdown menu is open, displaying the following options:

- 1 ABC 123 General No specific format
- 2 12 Number
- 3 Currency
- 4 Accounting
- 5 Short Date
- 6 Long Date
- 7 Time
- 8 % Percentage
- 9 1/2 Fraction
- 10 10² Scientific
- 11 ABC Text
- 12 More Number Formats...

The background shows the Excel ribbon with the 'Styles' and 'Cells' tabs visible. The 'Styles' tab shows 'Normal', 'Bad', 'Good', and 'Neutral' styles. The 'Cells' tab shows 'Insert', 'Delete', 'Format', 'AutoSum', 'Fill', and 'Clear' options.





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