EXCEL 2010 BASICS

Microsoft Excel I

OFFICE TAB	1
RIBBONS & GROUPS	2
OTHER SCREEN PARTS	4
APPLICATION SPECIFICATIONS	5
THE BASICS	6
The Mouse	6
What Are Worksheets?	6
What is a Workbook?	6
THE FORMULA BAR	7
name box	7
functions box	7
MOVING AROUND THE SPREADSHEET	8
The Name Box	8
The Scroll Bar or Scroll Wheel (Mouse)	8
The Keyboard	8
moving to different sheets	8
KEYSTROKE SHORTCUTS	9
DIFFERENT INFORMATION THAT CAN BE ENTERED IN EXCEL	10
Text	10
Date	11
Time	11
NUMBERS	12
FORMATTING A CELL AS YOU TYPE	13
EDITING THE CONTENTS OF A CELL	14
While Entering The Data	14
After Entering the Data	14
STATUS MODE	15
SELECTING CELLS	16
Selecting One Cell	16
Selecting a Group of Adjacent Cells	16
Selecting a Group of Non-Adjacent Cells	17

Selecting The Entire Spreadsheet	17
Selecting A Row	17
Selecting a Column	17
MOVING TEXT	
Moving Using the clipboard group on the home ribbon	
Moving with the Mouse	
COPYING & PASTING TEXT	
Copying Using the clipboard group on the home ribbon	
Copying with the Mouse	
THE AUTO CALCULATE FEATURE	
SIMPLE FORMULAS	
Rules For Creating Formulas	21
OPERATORS IN FORMULAS	
Order of Operation	
USING EXCEL FUNCTIONS	
Rules for Creating Formulas With Functions	
Referencing Adjacent Cells In A Formula	
Referencing Non-Adjacent Cells In A Formula	25
MOST COMMONLY USED FUNCTIONS	
AUTOSUM ²	27

OFFICE TAB

The features to manage your Excel files are found on the Office Tab:



RIBBONS & GROUPS

HOME RIBBON

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GROUPS: Clipboard, Font, Alignment, Number, Styles, Cells, Editing

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GROUPS: Tables, Illustrations, Charts, Sparklines, Filter, Links, Text, Symbols

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GROUPS: Themes, Page Setup, Scale to Fit, Sheet Options, Arrange

FORMULAS RIBBON



GROUPS: Function Library, Defined Names, Formula Auditing, Calculation

DATA RIBBON

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1		G	et Externa	l Data		C	Connections		1	Sort & Fil	ter			Data Tool:	5			C	utline	Es.

GROUPS: Get External Data, Connections, Sort & Filter, Data Tools, Outline

REVIEW RIBBON

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Ì		Deseties			Comment	t	6		Sho	DW INK	Sheet	Workbook	Workbook	Track Changes *	Inking
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GROUPS: Proofing, Language, Comments, Changes, Ink

VIEW RIBBON

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ormal	Page Layout	Page Break Preview	Custom Full Views Screer	Ruler Gridlines	 Formula Bar Headings 	Zoom	100%	Zoom to Selection	New Window	Arrange	Freeze Panes 🕶	Split Hide Unhide	View Side by Side	Save Workspace	Switch Windows *	Macros
Workbook Views Show					Zoon	ı					Window			Macros		

GROUPS: Workbook Views, Show, Zoom, Window, Macros

OTHER SCREEN PARTS

A1 • (* fx	
-	
Name Box	Gives you the cell address of the active cell. Can also be used to
	move quickly to a range or to a specific cell address. It also can
	be used to name ranges in the workbook.
Formula Bar	Displays the text or formulas that are in the active cell. Can also
	be used to edit the contents of a cell.

Ready Scroll Lock Average: 6.75 Count: 4 Sum: 27 🖽 🗖 🛄 100% 🍚 🛛 📢	ii i →	M Sheet1	Sheet2 / She	et3 🖉 🖏	-					 	 ▶ [
	Ready	Scroll Lock					Average: 6.75	Count: 4	Sum: 27	100% 🕞	 •

Status Bar	Lets you know the status of your worksheet – Ready, Edit or
	Enter Mode. Also contains Auto Calculate Features (Average,
	Count, Sum) that can be performed without entering a formula in
	a cell.
Sheet Tabs	Are just like other sheets of paper that you can use in your
	workbook. By default every workbook starts with 3 sheets.

APPLICATION SPECIFICATIONS

Feature	Maximum Limit
Open Workbooks	Limited by available memory and system
	resources
Worksheet Size	1,048,576 rows by 16,384 columns
Column Width	255 characters
Row Height	409 points
Total number of characters that a cell can	32,767 characters
contain	
Characters in a header/footer	255
Sheets in a single workbook	Limited by available memory
	(default is 3 sheets)
Number of characters for naming a sheet	31 characters

The following are the maximums that Excel allows:

THE BASICS

THE MOUSE

Your mouse pointer will take on a different shape depending where you are in the spreadsheet.

 Selection Face – used to select one cell or a range of cells.
Used to Move or Copy text using the Drag & Drop Feature.
AutoFill Handle – used to copy cell contents or formulas to adjoining cells.
I-Beam – shows you when the contents of a cell is being edited.

WHAT ARE WORKSHEETS?

A worksheet is also called a spreadsheet. A worksheet is just like a piece of paper, but can contain more information than can be printed on one sheet of paper. The worksheet is the primary document you use in Microsoft Excel to store and manipulate data. A worksheet consists of cells organized into columns and rows and is always part of the workbook.

WHAT IS A WORKBOOK?

A workbook is what we called the file in Excel. A workbook is made up of a combination of worksheets. You can add as many additional worksheets as your computer's memory can handle. When you open a new workbook in Excel you are given 3 worksheets by default.

THE FORMULA BAR

NAME BOX

A1 • (*f_x*

FUNCTIONS BOX

	SUM $\mathbf{v} \otimes \mathbf{x} \checkmark \mathbf{f}_{\mathbf{x}} =$ SUM															
	А	В	С	D	E	F	G	Н	1	J	К	L	М	N	0	
7	5															
8	6															
9	7															
10	9															
11	=SUM															
12	🕭 SUM		Adds all the	numbers in a	range of ce	lls										
13	🕭 SUMIF															
14	SUMIFS															
15	C SUMPRO	DDUCT														
16	C SUMSQ	4V2														
17	SUMX2P	Y2														
18	🕼 SUMXMY	1 2														

Name Box	Displays the Cell Address of the active cell.		
Functions Box	When you type an equal sign (=) in a cell, the		
	Name Box becomes the Functions Box which		
	gives you a list of all of EXCEL's functions.		
	You can select the one you want from the list or		
	you can type it in manually.		
× Cancel Button	Allows you to cancel the information before		
	you have entered it in your workbook.		
Enter Button	Allows you to enter the information in you		
	workbook without changing the cell address.		
fx Insert Function Button	Calls up the Function Wizard and allows you to		
	select a function from the list.		
The Open Area	Displays the formula that is in the active cell.		

MOVING AROUND THE SPREADSHEET

There are many ways to move around a spreadsheet.

THE NAME BOX

The Name Box is the easiest way to have Excel move you to a specific cell address.

Click into the Name Box.



- Type the cell address or cell name.
- Press Enter.

THE SCROLL BAR OR SCROLL WHEEL (MOUSE)

You can click on the arrows on the scroll bar or you can physically drag the vertical scroll bar up or down or the horizontal scroll bar left or right.

				_
				_
				•
			× 1 f	-
•			• 11	

You can also use the Scroll Wheel on your mouse to scroll through the worksheet.

THE KEYBOARD

You can use the arrow keys on your keyboard or on the Number Pad (if you turn the Number Lock off). There are several common keystroke shortcuts that are listed on the next page.

MOVING TO DIFFERENT SHEETS

With the Mouse	Just click the mouse on the Sheet Tab you want to move to.	
With the Keyboard	To move to the next sheet – CTRL + Page Down	
	To move to the previous sheet – CTRL + Page Up	

KEYSTROKE SHORTCUTS

ΤΟ ΜΟΥΕ ΤΟ	KEYSTROKE
ONE CELL TO THE RIGHT	ТАВ
ONE CELL TO THE LEFT	SHIFT + TAB
CELL A1	CTRL + HOME
FIRST CELL IN CURRENT ROW	HOME
MOVES DOWN ONE WINDOW BY ROWS	PAGE DOWN KEY
MOVES UP ONE WINDOW BY ROWS	PAGE UP KEY
MOVES RIGHT ONE WINDOW BY COLUMNS	ALT + PAGE DOWN
MOVES TO THE NEXT SHEET IN WORKBOOK	CTRL + PAGE UP
GO TO COMMAND	F5 KEY
	CTRL + G
	$\underline{\mathbf{E}}$ DIT – $\underline{\mathbf{G}}$ O TO (FROM MENU BAR)
USING THE F	END KEY
MOVES TO THE LAST CELL OF DATA IN THE WORKSHEET	CTRL + END
MOVES TO THE LAST CELL OF DATA IN THE COLUMN	END + ↓
MOVES TO THE LAST COLUMN OF DATA IN THE CURRENT ROW	$\text{END} + \rightarrow$

DIFFERENT INFORMATION THAT CAN BE ENTERED IN EXCEL

Техт

Text can be entered into EXCEL. EXCEL considers any cell containing any text, even if it contains both text and numbers as "Text". You can enter up to 32,000 characters in a cell and text is left-aligned.

Examples of Text: Firm Name

123 Main Street Las Vegas, NV 89111 (702) 555-1234

or

702-555-1234

or

702/555/1234

If you type a number as any of these number formats above, EXCEL will consider it as text not a number.

DATE

Excel recognizes several different ways of inserting a date:

October 2, 2005 10/2/05 Oct-02 Oct-2005 02-10-05

Excel gives you many options to format a date.

The current data can be inserted by pressing **CTRL** + ; at the same time.

Тіме

Excel also recognizes several different ways of inserting the time.

13:30 10:21AM 20:00 (You can also use military time.)

Excel gives you many options to format time.

The current time can be inserted by pressing CTRL + SHIFT + ; at the same time.

NUMBERS

General Number	99
Comma	5,400
Percent	20%
Decimal	3.12345
Currency	\$34,000.00
Exponent	1.2E+08

You can enter numbers with many different formats in EXCEL.

When first entering a number, type it in with no formatting. You can then format numbers by selecting an entire column(s) or row(s).

If a column is too small for Excel to display an entire number, Excel will either turn the number into an exponent or will display it as pound signs (#######).

The easiest way to size a column is to double-click on the border after the column.

FORMATTING A CELL AS YOU TYPE

If you enter a number or text with specific formatting in a cell, the cell retains the same formatting even if you delete the data.

To clear the format from a cell, from the Home Ribbon, click the Clear option:



Clear All – will delete the contents and the formatting from the cell.

Clear Format – will leave the contents and clear the formatting.

Clear Contents – will delete the contents, but leave the formatting. (Same as using the DELETE key.)

Clear Comments – if the cell contains a comment, the comment will be deleted.

EDITING THE CONTENTS OF A CELL

WHILE ENTERING THE DATA

When you are in the middle of typing data into a cell you can edit it by either:

- Using the **Backspace** or **Delete** keys.
- Pressing the **ESC** key or the **Cancel button** × to completely delete what you have began to enter.
- **Use your arrow keys** on the keyboard to move to the text you want to edit and make your changes.
- Click into the **formula bar** to edit the contents.

AFTER ENTERING THE DATA

Once you have entered the information you need to decide if you want to delete the contents of the cell or you just want to edit the contents.

- To replace the entire contents of the cell, click into the cell you want to change and type in the new data.
- To edit the contents of a cell you need to make the cell active for editing. (Status Bar will indicate **EDIT**.) There are several ways to do this:
 - Double-click into the cell you want to edit.
 - Click into the cell and press the F2 key.
 - Click into the Formula Bar and edit the data there.

STATUS MODE

There are different modes of operation in EXCEL that are indicated in the Status Bar as defined below:

READY	EXCEL is ready for you to begin entering data in a cell. You can also access the Menu Bar or select another cell in this mode.
EDIT	Anyone of the methods describe when editing text on the page before will put you in the EDIT mode.
	When you are in the EDIT mode you cannot access the Menu Bar or select another cell. To return to the READY mode press the ENTER key when you are finished editing.
ENTER	This indicates that EXCEL is waiting for you to enter data in a cell.
	Like the EDIT mode you cannot access the Menu Bar or select another cell until you return to the READY mode.

SELECTING CELLS

There are many different ways to select cells.

SELECTING ONE CELL

To select one cell, click into it to make it the **Active Cell**. Your active cell is the one with the border around and it is going to be affected by the next set of actions you perform.

SELECTING A GROUP OF ADJACENT CELLS

With the mouse:

- Click the first cell in the group of cells you want to select.
- Place the Selection Face on top of the Active Cell and hold down the mouse while moving over the area you want to select, then release the mouse as shown below:



With the keyboard:

- Click on the first cell in the group of cells you want to select.
- Then hold down the **SHIFT** key while using your Arrow keys.

SELECTING A GROUP OF NON-ADJACENT CELLS

- Click on the cell.
- Hold down the **CTRL** key.
- Continue to click on cells you want to select.

SELECTING THE ENTIRE SPREADSHEET

To select the entire worksheet using the keyboard, press CTRL + A.

or

To select the entire worksheet you can use the **Select All Button**. Click on the empty box on the row and column indicators above the Row 1 and next to column A:



SELECTING A ROW

To select a row, click on the number box to the left of the row to be selected.



SELECTING A COLUMN

To select a column, click on the letter box above the column to be selected.



MOVING TEXT

MOVING USING THE CLIPBOARD GROUP ON THE HOME RIBBON

If you are moving cells far away or to other worksheets or workbooks you probably will use the commands on the Clipboard Group on the Home Ribbon as shown below:



- Select the cells you want to move.
- From the Home Ribbon, click the Cut command ⁴.
- If you want to move the cells to another sheet or workbook, switch to it.
- Put you mouse in the upper-left cell of the paste area.
- From Click on the Paste command ¹

EXCEL will replace any existing data in the paste area.

When you cut cell contents, a "marquis" will appear around the cell. Once the contents is pasted the "marquis" will disappear.

MOVING WITH THE MOUSE

Moving cells a short distance within a window is quick and easy if you move the information by dragging and dropping.

- Select the cells you want to move.
- Point to the bottom border of the selection. (Your mouse pointer will look like an arrow.)



• Drag the selection where you want to paste it.

COPYING & PASTING TEXT

COPYING USING THE CLIPBOARD GROUP ON THE HOME RIBBON

If you are copying cells far away or to other worksheets or workbooks you will want to use the commands on the Clipboard Group on the Home Ribbon as shown below:

- Home Insert K Cut Cut Cut Format Painter Clipboard
- Select the cells you want to copy.
- Then click the Copy command
- If you want to copy the cells to another sheet or workbook, switch to it.
- Put you mouse in the upper-left cell of the paste area.
- Click on the Paste command 🖺.

EXCEL will replace any existing data in the paste area.

When you copy cell contents, a "marquis" will appear around the cell. As long as the marquis is still active, you can continue to paste the cell content. To turn off the "marquis" after pasting, press the **ESC** key.

COPYING WITH THE MOUSE

Copying cells a short distance within a window is quick and easy if you copy the information by dragging and dropping.

- Select the cells you want to copy.
- Point to the bottom border of the selection. (Your mouse pointer will look like an arrow.)
- Hold down the **CTRL** key while dragging the selection. (You will see a plus sign next to the arrow.)



• Drag the selection to where you want to paste it, release the mouse first and then release the **CTRL** key.

THE AUTO CALCULATE FEATURE

You can quickly get a sum, count or average of a range of numbers without entering a formula with the Auto Calculate Feature.

- Select the range of numbers you want to calculate.
- In the lower-right corner of the Status Bar the Average, Count and Sum of the numbers will be displayed.



• Right click on the area where the sum appears and a short-cut menu will appear with other calculations you can select to automatically appear in the Status Bar:

v	Average	3.5
v	Count	4
	Numerical Coun <u>t</u>	
	Minimum	
	Ma <u>x</u> imum	
v	<u>S</u> um	14

CALC	CALCULATIONS PERFORMED WITH AUTOCALCULATE					
AverageGives you the average of a range of numbers.						
Count	Counts the number of cells in a range					
Numeric Count	Counts the number of cells that contain numbers in the range.					
Maximum	Returns the maximum value in the range.					
Minimum	Returns the minimum value in the range.					
Sum	Gives you the sum of the range.					

SIMPLE FORMULAS

RULES FOR CREATING FORMULAS

- Every formula must begin with an equal sign (=).
- No spaces are to appear in the formula.
- Numbers or cell addresses can be referenced.

Numbers can be used in formulas as follows:

=Sum(45+67+123+567)

Formulas can use cell addresses as follows:

=sum(D5+D6+D7+D8)

• The cell addresses can be typed in capital or lowercase.

Formulas can contain both numbers and cell addresses.

=sum(D9+6+D10+8)

OPERATORS IN FORMULAS

ARITHMETIC OPERATORS					
Operator	Formula	Type of Operation			
+	=2+2 or =A1+A2	Addition			
-	=10-3 or =A1-A2	Subtraction			
*	=4*4 or =A1*A2	Multiplication			
/	=20/5 or =A1/A2	Division			
%	=10%	Percent			
٨	=5^2 or =A1^A2	Exponentiation (to the power of)			

COMPARATIVE OPERATORS				
Operator	Type of Operation			
=	Equal to			
<	Less than			
<=	Less than or equal to			
>	Greater than			
>=	Greater than or equal to			
\diamond	Not equal to			

ORDER OF OPERATION

The following is the order of operation: Parentheses, Exponents Multiplication, Division, Addition and Subtraction.

<u>i.e.</u> =2+2*5 12

You can use parentheses to change the order of operation:

<u>i.e.</u> =(2+2)*5 20

USING EXCEL FUNCTIONS

The built-in functions in EXCEL perform standard worksheet calculations. The values on which a function performs operations are called **arguments**. The values that the functions return are called **results**. You use functions by entering them into formulas on the worksheet. The sequence of characters used in a function is called the **syntax**. The syntax of a formula begins with an equal sign (=) and is followed by a combination of values and operators.

Parentheses tell EXCEL where arguments begin and end. You must include both parentheses, with no spaces before the argument and after. Arguments can be numbers, text, logical values, arrays, error values or cell references. The argument you designate must produce a valid value for that argument. Arguments can also be constants or formulas, and the formulas can contain other functions. When an argument to a function is itself a function, it is said to be **nested**. In EXCEL, you can nest up to seven levels of functions in a formula.

RULES FOR CREATING FORMULAS WITH FUNCTIONS

- All formulas must start with an equal sign (=), followed by the function name.
- The arguments must be in parentheses.
- AND NO SPACES are to appear.

=SUM(2,4,5,B6,C15,D21)

NOTE: By default EXCEL always displays the results of the formula in the cell of the worksheet. If you want to see the actual formulas in the worksheet, press CTRL + ~ (tilda).

REFERENCING ADJACENT CELLS IN A FORMULA

Instead of typing the cell addresses in a formula, you can reference the cells by selecting them with your mouse.

- Click into the cell where you want to enter the formula.
- Type an equal sign (=)
- Type the function name (SUM) and the open parentheses (.
- Click on the first cell you want to reference in the formula and select the additional adjacent cells either dragging down or dragging across over the cells.
- EXCEL will display the range of cells with a colon (:). The range specifies the first cell address through the last cell address.
- Press the ENTER key.
- EXCEL will add the closing parentheses.

	SUM	- X 🗸	<i>f</i> ∡ =sum(A	1:A5
	A	В	С	D
1	5			
2	6			
3	23			
4	4			
5	45			
6	=sum(A1:A			
7	SUM(num	ber1, [numb	er2],)	

REFERENCING NON-ADJACENT CELLS IN A FORMULA

Working with functions for non-adjacent cells follows the same principle as adjacent cells. The main difference is that each cell address is separated with a comma (,).

- Click into the cell where you want to enter the formula.
- Type an equal sign (=)
- Type the function name (SUM) and the open parentheses (.
- Click on the first cell you want to reference in the formula.
- Hold down the **CTRL** key and continue to click on the non-adjacent cells you want to reference in the formula.
- EXCEL will display the list of cells, each one separated by a comma (,).
- Press the **ENTER** key.
- EXCEL will add the closing parentheses.

SUM → X √ & =sum(A1,B5,C2,D5,E3									
	A	В	С	D	E	F	G		
1	5								
2			6						
3					7				
4									
5		4		9					
6									
- 7 -									
8					=sum(<mark>A1</mark> ,E	35,C2,D5, <mark>E</mark>	3		
9					SUM(num	ber1, [numb	er2],)		

NOTE: You can combine ranges, non-adjacent cells and constant numbers in a formula, each separated by a comma (,) as follows:

=SUM(A1:A5,C6,D12,8,5,8)

MOST COMMONLY USED FUNCTIONS

=SUM	Adds all the numbers in a range of cells.						
=MAX	Returns the largest number in a set of values.						
=MIN	Returns the smallest number in a set of values.						
=AVERAGE	Returns the average of an argument. An argument can contain numbers, ranges or individual cells.						

AutoSum is a shortcut to using the =SUM function. AutoSum will automatically insert the formula for you. All you have to do is reference the cell addresses or sometimes EXCEL will assume the range of the cells as shown below:

SUM							
	A	В	С	D			
1	Worldwide						
2	Regional Sales Report						
3							
4	Region						
5	Northern	50986	58634				
6	Southern	45284	52077				
7	Central	42326	48675				
8	Western	39675	45626				
9	Totals	=SUM(<mark>B5</mark> :	<mark>88</mark>)				
10		SUM(number1, [number2],)					
4.4							

- Click into the empty cell below the range of values. This is where the formula will automatically appear.
- Click on the **AutoSum** button on the Home Ribbon in the Editing Group:



- EXCEL will automatically select the range of the cells above.
- Press the **ENTER** key.
- **NOTE:** The AutoSum feature will not work if there are blank cells above and may or may not work when referencing cells to the left of the formula.