		30p.0100			
1	Welcome to the course				
•	Course Structure & Content				
	Important Compatibility & Setup Information				
	Course Resources: Download Course Project Files				
	Course Expectations				
2	Your First Macro				
	Overview: Macros & Visual Basic Editor (VBE)				
	Steps to Your First Macro Recording				
	Visual Basic Editor: What You Need to Know				
	Project: Dynamic Selection (Go to Special) - Perfect for Flexible Ma	cros			
	Project: Copy (Consolidate) Data - Absolute versus Relative Macro Recording				
	7 Ways to Run Macros / VBA code (incl. creative & modern buttons				
	OFFICE 365 Update: Change from Comments to Notes				
	Activity: Record a Macro that Deletes all Comments				
	What's the Difference Between Macros and VBA?				
	Quiz: Test Your Knowledge on Macros				
3	The Object Model				
•	Overview: VBA Object Model (What you need to become an experi-	t in VBA)			
	VBA's Code Reference Object Library				
	VB Color Guidelines & Keyboard Shortcuts				
	Excel VBA Object Model				
	Object Properties				
	Object Methods				
	How to Find the Object, Property & Method				
	Test Your Knowledge about the Object Model				
	Conclusion: Key Takeaways & Message from Me				
4	Referencing Ranges, Worksheets & Workbooks				
-	Overview: Referencing Ranges, Worksheets & Workbooks				
	Referring to Ranges & Writing to Cells in VBA				
	Most Useful Range Properties & Methods				
	4 Methods to Find the Last Row of your Range				
	Copying & resizing a variably sized range				
	Properly Referencing Worksheets				
	Properly Referencing Workbooks				
	Activity: Save a Hardcoded copy of Workbook				
	Project: Save Hard-coded Copy & Macro-free version of Workbook				
	Conclusion: Key Takeaways for Referencing Ranges				
5	Working with Variables				
•	Overview: Role of Assignment & Variables				
	Data Types for Better Performance				
	Declaring Variables, Arrays & Constants (Role of Option Explicit)				
	Using Object Variables (Set statement)				
	Scoping Variables				
	Activity: Revisit Hard-coded Workbook Project & Use Variable Assig	nment			
	Test Your Knowledge on Variables and data types				
	Key Takeaways for Working with Variables				
6	Looping through Collections & Making Decisions				
5	Overview: Why Collections are a VBA Essential				
	With & End With for Easier Code Writing				
	For Each to Loop Through Collections (sheets, ranges etc.) in one g	0			
	IF Then (Else, ElseIF) for Conditional Outcomes				
	Select Case as Alternative for Many IF Statements				
	Goto Statement to Change Program Flow				
	Activity: Get the Number of Formulas on the worksheet				
	Project: Get the Number of Formulas on the Worksheet				
	Bonus: Unhide All Sheets in One Go				
	Bonus: Unhide All Sheets in One Go Key Takeaways for Collections & Decision Making in VBA				

Completed

Your Notes

		Completed	Your Notes	
	Overview: VBA versus Worksheet Functions			
	Most Useful VBA Functions			
	Message Box (also with Yes, No buttons)			
	Input Box (VBA InputBox Function)			
	Input Box that can Select Ranges (Excel InputBox Method)			
	Activity: Show Top 3 Values in a Message Box Based on Range Sele	cted		
	Project: Show Top 3 Values in a Message box based on Range Select	ted		
	Key Takeaways Built-in Functions			
8	Debugging, Error Handling & Procedure Scope			
	Overview: Debugging, Handling Errors & Procedure Scope			
	Debugging Options: Watch, Locals, Immediate Windows & More			
	Error Handling: Different Methods			
	Faster Code by Suppressing Pop-ups & Flickering Screen			
	Procedure Scope & Running one Sub from Another			
	Passing Arguments to Sub Procedures (By Ref, By Val)			
	Activity: Get the Total Number of Formulas (or Comments) Used in	a Workbook		
	Project: Get the Total Number of Formulas (or Comments) Used in a Workbook			
	Key Takeaways Debugging, Error Handling & Course Map Status			
9	Main Project #1: Create a Tool to Automate Table of Cont	ents		
-	Project overview: Table of Contents (TOC) with one click			
	TOC Project: The Basics			
	TOC Project: Adding Hyperlinks			
	TOC Project: Testing the VBA Code			
	TOC Project: Adding Error Handling & More Checks			
	TOC Project: Adding to Personal Macro Workbook (Make it Availab	le to all Files)		
	First Milestone Completed!			
0	Looping in VBA (controlling the flow of code)			
•	Section Overview: Looping in VBA			
	For Next Counter Loops (Simple Example)			
	For Next Nested Loop (Loop through Text & Cells)			
	For Next Reverse Loop (Delete Filtered/Hidden Rows)			
	Do Until & Do While Loop			
	•			
	Practical Example of Do Loop (with Inputbox) Find Method for Quicker Lookup Results			
	· · · · · ·			
	Find Method with Do Loop - Multiple Matches			
	Add a Timer to Test & Speech to Inform			
	Activity: Document all Comments in Workbook in a Sheet			
	Project: Document all Comments in Workbook in a Sheet			
	Useful VBA Statements & Key takeaways for Looping in VBA			
1	Working with Arrays			
	Overview: Working with Arrays in VBA			
	One Dimensional Arrays (and transferring back to sheet)			
	Dynamic Arrays (size adjusts depending on a condition)			
	Preserving Dynamic Arrays (adding more elements to the existing a	array)		
	Two Dimensional Arrays			
	Variant Arrays: Quick Method to Write to Cells			
	Activity: Create a New Worksheet per Company with Specific Inform			
	Project: Create a New Worksheet per Company with Specific Inform	nation		
	Key Takeaways Arrays			
2	Working with Files, Folders & Text Files			
	Overview: Working with Folders & Files			
	DIR Function: Check if Files or Folders Exist			
	GetOpenFileName Method: User Selects a File			
	FileDialog Property: Loop Inside a Folder			
	Create CSV File from Data in Excel			
	Printing & Writing to Text Files for More Control			
	Activity: Export Data to Text file (fix Delimiter to Semicolon)			
	Project: Export Data to Text file (fix Delimiter to Semicolon)			
	Key Takeaways Files & Folders			

		Completed	Your Notes		
13	Excel Tables, Formulas & Pivot Tables				
	Overview: (Pivot) Tables & Formulas				
	Using Excel Formulas in VBA				
	Excel Tables: Use the Right Syntax				
	Pivot Tables & VBA: What you Need to Know				
	Activity: Update Existing Formulas with VBA by Adding IFERROR				
	Project: Update Existing Formulas with VBA by Adding IFERROR				
	Key Takeaways (Pivot) Tables & Formula				
14	Main Project #2: Regional Reporting Tool				
	What You'll Learn (& Should be Aware of)				
	Project Overview: Regional Sales Reporting Tool				
	Importing Data from Multiple Files using MultiSelect				
	Setting up a Template as the Basis for Different Reports				
	Exporting Reports as Excel files (Pivot Table & Hard Coded Report	is)			
	Fine-tuning Report Export Procedure (Double-check if user wants to overwrite)				
	Setting up Automatic Export of Text File (Fix delimiter in CSV to Setting up Automatic Export of Text File (Fix delimiter in CSV to Setting up Automatic Export of Text File (Fix delimiter in CSV to Setting up Automatic Export of Text File (Fix delimiter in CSV to Setting up Automatic Export of Text File (Fix delimiter in CSV to Setting up Automatic Export of Text File (Fix delimiter in CSV to Setting up Automatic Export of Text File (Fix delimiter in CSV to Setting up Automatic Export of Text File (Fix delimiter in CSV to Setting up Automatic Export of Text File (Fix delimiter in CSV to Setting up Automatic Export of Text File (Fix delimiter in CSV to Setting up Automatic Export of Text File (Fix delimiter in CSV to Setting up Automatic Export of Text File (Fix delimiter in CSV to Setting up Automatic Export of Text File (Fix delimiter in CSV to Setting up Automatic Export of Text File (Fix delimiter in CSV to Setting up Automatic Export of Text File (Fix delimiter in CSV to Setting up Automatic Export of Text File (Fix delimiter in CSV to Setting up Automatic Export of Text File (Fix delimiter in CSV to Setting up Automatic Export of Text File (Fix delimiter in CSV to Setting up Automatic Export of Text File (Fix delimiter in CSV to Setting up Automatic Export of Text File (Fix delimiter in CSV to Setting up Automatic Export of Text File (Fix delimiter in CSV to Setting up Automatic Export of Text File (Fix delimiter in CSV to Setting up Automatic Export of Text File (Fix delimiter in CSV to Setting up Automatic Export of Text File (Fix delimiter in CSV to Setting up Automatic Export of Text File (Fix delimiter in CSV to Setting up Automatic Export of Text File (Fix delimiter in CSV to Setting up Automatic Export of Text File (Fix delimiter in CSV to Setting up Automatic Export of Text File (Fix delimiter in CSV to Setting up Automatic Export of Text File (Fix delimiter in CSV to Setting up Automatic Export of Text File (Fix delimiter in CSV to Setting up Automatic Export of Text File (Fix delimiter in CSV to	emicolon)			
	Track the List of Tasks Completed with VBA				
	Final Touches & Creating Interface to Hide Specific Tabs with a Pa	ssword			
	Key Takeaways & Tips for VBA based Excel Tools				
	Second Milestone Completed!				
15	Interacting with Other Applications (Word, PowerPoint e	etc.)			
	Overview & Important Concepts when Interacting with Other App	olications			
	Project PDF: Save Specific Sheets as a PDF File				
	Project Email: Automatically Create Personalized Emails with Atta	chments			
	Project Microsoft Word: Create Personalized Letters in Word fror	n Excel			
	Project Microsoft PowerPoint: Export Excel Sheets to PowerPoint	Presentation			
	Key Takeaways when Working with other Applications				
16	Worksheet and Workbook Events				
	Overview & What are Event Procedures?				
	Workbook Events, Toggle Full Screen (Activate, Deactivate, Open	, Close)			
	Worksheet Selection Change: Dynamic Font Color of Selected Rar	nge			
	Refresh PivotTables Automatically & Concept of Range Intersection	on			
	Resetting a Dependent Drop-down when the first Drop-down is C	hanged			
	Activity: Link Page Header to Cell Value (BeforePrint Event)				
	Project: Link Page Header to Cell Value (BeforePrint Event)				
	2 Useful Tips when Working with Events & Key Takeaways				
17	Working with Userforms & ActiveX Controls				
	Overview: UserForms & ActiveX Controls				
	ActiveX Controls: What you Need to Know				
	ActiveX Check Box to Fix Scroll Area & Toggle Screen Settings				
	ActiveX to Show and Hide Help				
	ActiveX Combo Box for Easy Sheet Navigation (Great for Larger Workbooks)				
	ActiveX to Show or Hide Other ActiveX controls (eg. Actual & Budget reporting)				
	UserForm Basics: What You Need to Get Started				
	UserForm for Data Entry (Input & Check Boxes)				
	UserForm to Document External Links & Comments (Combo Box	& Option button)			
	Bonus: ListBox to Print Multiple Pages in ONE Go				
	UserForm Checklist & Course Map Status				
18	Main Project #3: Invoice Generation Tool				
	Tool Overview: What You Will Learn				
	Setting up an Input UserForm to Collect Master Data				
	Working with Multi-Column ListBoxes				
	Edit Master Data with UserForm				
	Searchable ListBox (with Selection Change event)				
	Enhanced Searchable ListBox: Write Selection back to Excel Table				
	MultiPage UserForm to Create Invoices & Email (Setup)				
	Export PDF & Excel Workbook for Each Invoice based on ListBox S	Selection			
	Create Email in Outlook & Attach PDF Invoice				
	Final Updates & Debugging				

		Completed	Your Notes
	Last Milestone Completed!		
19	Creating Customized Functions / Formulas		
	Section Overview: Function Procedures		
	Setting up a Simple Function (including Optional Arguments)		
	Function to Calculate Age (Result in Years & Months)		
	Functions that Split Text and Numbers from Cell Value		
	Using Functions in Sub Procedures		
	Activity: Function That Sums based on Cell Color		
	Project: Function That Sums based on Cell Color		
	Key Takeaways Function Procedures in VBA & Course Map Status		
20	Working with Charts		
	The Chart Object Library & Section Overview		
	Create and Modify a Chart		
	Animated Charts: Different Methods		
	Show Charts inside UserForms		
	Key Takeaways: Charts		
21	Summary & Final Words		
	Your Next Steps & more Learning		
	BONUS Lecture		