

COURSE CATALOGUE

2017 / 2018



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Excel Courses

1.1 Data Manipulation and Formatting

This beginner course will show you how to insert, edit, delete and sort data, perform lightning-fast navigation and radically improve your productivity in Excel using keyboard shortcuts.

Lessons:

1. Getting to know the user interface
2. Keyboard shortcuts
3. Adding, editing and deleting data
4. Essential shortcuts for Excel navigation
5. Essential shortcuts for cell selection
6. Inserting rows & columns
7. Adjusting columns & rows
8. Freeze panes, split boxes & zoom
9. Formatting numbers part 1
10. Formatting numbers part 2
11. Formatting cells part 1
12. Formatting cells part 2
13. Grouping & hiding cells
14. Paste Special
15. Sorting & filtering data

1.2 Formulas and Finance Functions

This course introduces the most useful of Excel's built-in arithmetic, logical, and financial functions. You also learn how to write, manipulate and audit your own formulas for a variety of different use-case.

Lessons:

1. Basic arithmetic operations
2. Conditional arithmetic
3. Max, min and average functions
4. Logical operators
5. Naming & anchoring cells
6. Array formulas
7. Internal rate of return
8. Net present value
9. Percentage growth rates & CAGR
10. Loan repayments
11. Formula auditing
12. Fill commands
13. Information functions
14. Rounding numbers

1.3 Time, Text and Dates

Excel has a host of functions that help manipulate these 3 data types. In this course, you will learn how to clean, chop and manipulate text entries and how to perform time-series analysis on a dataset for an online start-up.

Lessons:

1. How Excel deals with text, time & dates
2. Changing letter case of words
3. Combine strings of text
4. Chop lines of text part 1
5. Chop lines of text part 2
6. Search for text in a dataset
7. Split address field into multiple columns
8. Convert dates from text into values
9. Add & subtract dates
10. Compile weekly totals
11. Analyze data by day of the week
12. Combining dates & times
13. Add & subtract times part 1
14. Add & subtract times part 2
15. Analyze data within time intervals

1.4 Lookups & Database Functions

Lookup functions help you quickly find records in large datasets. Learn how to use these functions, create drop-down lists, build search panels and much more in this course.

Lessons:

1. Finding records with VLOOKUP
2. Naming arrays
3. Better lookups with INDEX/MATCH
4. Tiered pricing with nested IF
5. Create dropdown list for search
6. Ranking data records
7. Lookup multiple criteria
8. Calculating monthly totals
9. Database functions
10. Updating formulas w/new data part 1
11. Updating formulas w/new data part 2

1.5 Pivot Tables

Pivot Tables allow you to search, filter and sort data very quickly, making them an essential data analysis tool in Excel. In this course, you'll learn all you need to know about Pivot Tables, from creating Pivot Charts to using Slicers for enhanced filtering.

Lessons:

1. Preparing your data for Pivot Tables
2. Build your first Pivot Table
3. Formatting Pivot Tables
4. Changing Pivot Table output values
5. Grouping date columns
6. Updating Pivot Tables with new data
7. Pivot Table subtotals
8. Sorting Pivot Table data
9. Apply filters to Pivot Tables
10. Pivot Table slicers
11. Build charts from a Pivot Table
12. Pivot Table data in formulas

1.6 Introducing Statistics

Simple statistics can be used to increase your understanding of your business, thereby improving performance. In this course, you will learn how to perform some basic statistical analysis in Excel, including percentiles, data bins, standard deviation, and correlation.

Lessons:

1. Introduction to statistics
2. Average, median and mode
3. Interpreting percentiles
4. Creating databins
5. Variance & standard deviation
6. Finding trends in data
7. Correlation

1.7 Charts in Depth

Creating charts is a very common task in Excel. This course shows you how to create, format and edit charts so that they are easy to understand and look professional.

Lessons:

1. How to create charts in Excel
2. Arrange chart data correctly
3. Formatting the vertical axis
4. Formatting the horizontal axis
5. Changing the chart color scheme
6. Adding labels to column chart
7. Adding labels to other charts
8. Formatting chart titles
9. Legends and data tables
10. Selecting the correct chart
11. Actual vs target charts
12. Export charts to Word and PowerPoint

1.8 Build your First Dashboard

Dashboards are a very popular business tool for summarizing and garnering insights from data. In this course, you will learn how to build a simple sales dashboard from scratch in Excel.

Lessons:

1. Why build dashboards
2. Designing your dashboard
3. Calculating headline values
4. Adding charts to your dashboard
5. Time-based charts
6. Segmenting by customer size
7. Sales team analysis
8. Add interactive buttons to the dashboard
9. Link sales KPIs to buttons
10. Ranking metrics
11. Formatting the dashboard

1.9 Build your First Model

This introductory modelling course will teach you how to build a pricing model from scratch - helping our case study Zippy Airways, maximize profitability.

Lessons:

1. Introduction to modelling
2. Framing the problem
3. Diagram the problem part 1
4. Diagram the problem part 2
5. Lay out model in Excel
6. Build simplified model
7. Sensitivity analysis
8. Prepare your dataset for modelling
9. Estimating market demand
10. Complex model formulas
11. Perform checks on model
12. Calculate model outputs
13. Analyze risks in our model
14. Goalseek & Solver
15. Run scenarios using Pivot Tables
16. Charts for sensitivity tables
17. Recommendations to the client
18. Limitations of the model

1.10 Forward-looking Models

SupraChem has a high-risk technology project that requires additional investment. Learn how to build a forward-looking model and use new tools such as decision trees and scenario analysis to help the company reach a decision.

Lessons:

1. What's new in forward-looking models
2. Decision trees
3. Build an influence diagram
4. Structure model in Excel
5. Make your model responsive
6. Shorten formulas with new variables
7. Risk-weighted cashflows
8. Tornado charts part 1
9. Tornado charts part 2
10. Update warnings for charts
11. Adding taxes to our model
12. Building multiple scenarios part 1
13. Building multiple scenarios part 2
14. Analyzing our scenarios
15. Formula auditing with colorize
16. Restrict model inputs
17. Recommendations to SupraChem
18. Limitations of SupraChem model

1.11 Introduction to Valuation

Valuing investments can be daunting at first. This course will teach you the basic theory of valuation and show you how to build simple Excel valuation models.

Lessons:

1. Why learn about valuation
2. Different methods of valuation
3. Time value of money & present values
4. Calculating present values in Excel
5. Choosing the right discount rate
6. Calculating net present value
7. Calculating Internal Rate of Return
8. Limitation of IRR
9. Payback period
10. IRR vs NPV
11. Investing with loans part 1
12. Investing with loans part 2
13. How loan terms affect returns
14. Downside of investing with loans
15. Growth rates & terminal value
16. Market-based valuation & multiples
17. Limitations of market-based valuation
18. More tips on using multiples
19. Cost-based valuation

1.12 Valuing a Real Estate Investment

In this course, learn how to build your first, full valuation model from scratch. The investment opportunity is a downtown 3-bed apartment, recently put up for sale.

Lessons:

1. Introducing the case
2. Define the model structure
3. Revenue projections
4. Calculate Effective Gross Income
5. Expense projections
6. Navigation tips for models
7. Income tax calculations
8. Operating cashflows
9. Estimating final selling price
10. Capital gains taxes
11. Calculate investment IRR
12. Find the drivers of IRR

1.13 Introduction to Excel Macros

Macros help you automate tasks in Excel and can be a big time-saver, particularly when formatting cells. What's more, you don't need to be a programmer to build them!

Lessons:

1. What are Macros & VBA?
2. Add multiple tasks to a Macro
3. Undo, saving & distributing Macros
4. Macros & security settings
5. Editing and deleting Macros
6. Remove blank cells with Macros
7. Absolute & relative references
8. Problems with pasting text
9. Should I learn to program in Visual Basic?

1.14 Power Pivot Part 1

Power Pivot is a data modelling tool available within Excel. This course will introduce the important points of the Excel data model, and show you how to create Pivot Tables and Pivot Charts using the data model.

Lessons:

1. Power Pivot overview & installation
2. Loading data to the Excel data model part 1
3. Loading data to the Excel data model part 2
4. Data view & diagram view
5. Relationships
6. Calculated columns
7. Measures
8. Creating a Pivot Table from Power Pivot data
9. Creating a Pivot Chart from Power Pivot data
10. Adding slicers to Pivot Tables & Pivot Charts
11. Updating the data model

1.15 Power Pivot Part 2

This second course on Power Pivot looks at more of the important features of Power Pivot, such as date tables and hierarchies. You will explore options for displaying your data that go beyond Pivot Tables, such as Power Maps and Power View.

Lessons:

1. Adding a date table
2. Hierarchies
3. Modifying the sort order
4. Creating a KPI
5. Creating a perspective
6. Formatting the Power Pivot model
7. Power Maps / 3D Maps part 1
8. Power Maps / 3D Maps part 2
9. Creating tours using Power Maps
10. Creating a Power View Report part 1
11. Creating a Power View Report part 2
12. Power View filters & interactions

1.16 Power Query (Get & Transform in Excel 2016)

Power Query (called Get and Transform in Excel 2016) is an Excel feature allowing you to import data from a variety of sources into Excel. You can also transform data that is awkwardly formatted into a layout that is useful for data analysis, as we will see in this course.

Lessons:

1. Power Query overview & installation
2. Connecting to an Excel file
3. Connecting to a database
4. Connecting to a folder
5. Pivoting & unpivoting
6. Merging queries
7. Merging columns
8. Filtering
9. Formatting columns
10. Adding custom columns
11. The M formula language in Power Query
12. Editing, loading & saving queries
13. Adding new data

1.17 DAX Overview Part 1

Data Analysis Expressions, or DAX, is the formula language of Power Pivot, but there are many similarities with Excel formulas. Learn the basic functions of DAX in this course.

Lessons:

1. Calculated columns
2. Calculated measures
3. Calculated tables and relationships
4. Aggregate functions
5. The calculate function
6. Logical functions part 1
7. Logical functions part 2
8. The switch function
9. Rank function
10. Count functions
11. Text functions part 1
12. Text functions part 2

1.18 DAX Overview Part 2

In this second course on Data Analysis Expressions, you will explore areas of DAX that can be a little bit more difficult to implement, like time intelligence. This course will also demonstrate some of the important concepts that underpin DAX, such as contexts and filtering. Once you can understand this course, you'll be well placed to understand DAX comprehensively.

Lessons:

1. Date functions
2. Date tables
3. Filtering functions part 2
4. Time intelligence
5. Variables
6. Relational functions
7. Filtering functions part 1
8. Row context
9. Multiple row context
10. Filter context
11. Context transition

1.19 DAX Examples

Having established a knowledge of the main concepts of the DAX language, this course will demonstrate various common business applications of DAX in Power Pivot. You will see that an understanding of Power Pivot and DAX lets you create more complex and insightful charts and tables, without leaving Excel.

Lessons:

1. Running totals
2. Market share
3. Moving average
4. Making comparisons over time
5. Customizing time offsets
6. Days between transactions
7. Rankings over time
8. Comparing sales to averages part 1
9. Comparing sales to averages part 2
10. Comparing sales by region



Financial Modelling Courses

2.1 Introduction to Financial Statements

Understanding financial statements is a critical skill for all management executives. This course provides a brief overview of the 3 financial statements and how to perform some financial analysis in Excel.

Lessons:

1. Introducing Financial Statements
2. Revenue & revenue recognition
3. Calculating gross profit
4. Operating expenses
5. Interest, taxes & net profit
6. Common-size income statements
7. Current assets
8. Current liabilities and liquidity ratios
9. Long-term assets
10. Long-term liabilities and Shareholders' Equity
Common-size balance sheet
11. Statement of cashflows part 1
12. Statement of cashflows part 2
13. Additional Financial KPIs

2.2 Financial Projections

In this course, you will predict the future performance and financial health of company by building 5-year projections for MarkerCo's financial statements.

Lessons:

1. Why build financial projections?
2. Structuring projections in Excel
3. Creating income statement assumptions
4. Building projections for the income statement
5. Capital expenditure and depreciation
6. Creating balance sheet assumptions part 1
7. Creating balance sheet assumptions part 2
8. Building projections for the balance sheet
9. Completing balance sheet projections
10. Projecting operating cashflows
11. Completing our financial projections
12. Keeping the model balanced
13. Reviewing financial projections

2.3 Performing your First Company Valuation

This course will show how to estimate the value of a company using a variety of different valuation techniques. All the key company valuation concepts covered, such as enterprise and equity value, capital asset pricing model and terminal value.

Lessons:

1. Why and when companies are valued?
2. The different methods of valuing a company
3. Enterprise & Equity value
4. The cost of capital part 1
5. The cost of capital part 2
6. Unlevered free cashflow
7. Calculating discounted cashflows
8. The terminal value part 1
9. The terminal value part 2
10. Re-cap of equity valuation calculation
11. Scenarios & sensitivity analysis
12. Market-based valuation with multiples
13. Return on investment

2.4 Leveraged Buyouts

Debt structures are very common in financial modelling and are required learning for analysts. In this course, you will see how a private equity firm uses different forms of debt to purchase MarkerCo in a leveraged buyout.

Lessons:

1. What is a Leveraged Buyout (LBO)?
2. How to build a LBO model
3. Transaction assumptions part 1
4. Transaction assumptions part 2
5. Secured debt
6. Unsecured debt
7. Entering our loan structure in Excel
8. Creating the debt schedule
9. Calculating the cash balance
10. Amending our transaction assumptions
11. Key metrics for covenants
12. Estimating our returns from the LBO
13. Conclusions and improvements

2.5 Building a Merger Model

In this course, you will learn how to build a financial model for the merger of two companies. This will require valuing both companies, estimating various synergies between the two and modelling the future performance of the combined entity. The merger process itself can be complicated so the course will also spend time outlining the steps involved in implementing a typical merger.

Lessons:

1. How and why mergers occur
2. Breaking down the merger process
3. Modelling accretion & dilution
4. Financing options in a merger
5. Valuing the seller
6. Valuing the buyer
7. Building ROIC trees for both companies
8. Structuring the merger model in Excel
9. Create a sources & uses schedule
10. Creating a Purchase Price Allocation schedule
11. Estimating synergies
12. Combining the balance sheets
13. Combining the income statements
14. Projecting cash flows & debt repayments
15. Estimating EPS accretion / dilution
16. Valuing the merged company

2.6 Modelling Investments in Startups

Investigating the financing options for a growing business can be challenging, because there are so many options to choose from. In this course, you will learn how to help a fast-growing tech company choose the optimal financing structure for its next fundraising round. You will also learn how to deal with some new modelling concepts such as foreign currency conversions, stock-based compensation, convertible bonds and share issuances.

Lessons:

1. Debt vs Equity vs Convertibles
2. Structuring the model in Excel
3. Dealing with foreign currency conversions
4. The major differences between US GAAP & IFRS
5. Options, warrants & RSUs
6. The stub-period method vs the mid-year method
7. Income statement projections
8. Balance sheet projections
9. Cash flow statement projections
10. Financial scenarios
11. Modelling an equity issuance
12. Modelling a debt issuance
13. Accounting for convertible bonds
14. Creating the debt schedule
15. Modelling follow-on investments scenarios
16. Estimating future returns

2.7 Advanced Leveraged Buyouts Part 1: Projecting the Financial Statements

This course provides a much more detailed financial model for a LBO transaction, incorporating many new concepts and accounting principles that our previous LBO course. In part 1 of this course, you will build projections for all 3 financial statements, incorporating new concepts such as Treasury Stock, Stock-based Compensation and Dividends.

Lessons:

1. Introducing the case
2. Transaction assumptions for our LBO model
3. Fees & funds required
4. Designing revenue projections for the target
5. Projecting COGS & Operating Expenses
6. Capex & depreciation schedule part 1
7. Capex & depreciation schedule part 2
8. Treasury stock, stock-based compensation & dividends
9. Balance sheet projections
10. Statement of cashflow projections
11. Linking the statements part 1
12. Linking the statements part 2

2.8 Advanced Leveraged Buyouts Part 2: Returns Analysis

In Part 2 of Advanced Financial Modelling, you will build a full debt schedule for the proposed transaction, before tackling the major aspects of modelling that often confuse analysts, such as Capitalizing Leases, Deferred Taxes and Net Operating Losses. You will also perform some thorough returns analysis once the model is completed.

Lessons:

1. Building the sources & use table
2. Debt schedule part 1
3. Debt schedule part 2
4. Deferred taxes & Net Operating Losses
5. Capitalizing leases
6. Adjusting the balance sheet
7. Examining the performance of our case study
8. Scenario creation & analysis
9. Calculating unlevered cashflows
10. Valuing the business with DCF
11. Valuing the business with market-based multiples
12. Assessing solvency & liquidity ratios
13. Understanding the impact of debt terms
14. Returns analysis – revenue & capex sensitivity
15. Returns analysis – opex & timing sensitivity
16. Recommendation to the client

PowerPoint Courses

3.1 Shapes, Lines and Images

Shapes, lines and images serve to bring dull text-only slides to life. A deep understanding of these objects is necessary for creating compelling slides.

Lessons:

1. A tour of the user interface
2. Adding a quick access toolbar
3. Creating shapes and lines
4. Alignment and distribution
5. Inserting and editing images
6. Completing the organization chart
7. Advanced image editing
8. Building process diagrams

3.2 Master the Textbox

It's easy to add text to a slide. But it can be hard to choose the right font-face, size, line-width and a host of other variables. Thankfully Kubicle is on hand to guide you through this!

Lessons:

1. Editing & aligning text
2. Bullet points
3. Making text easy to read
4. Useful keyboard shortcuts for text
5. Importing text from Word & PDF
6. PowerPoint tables

3.3 Construct Charts for you Data

Charts are a great way of displaying numerical data that can be quickly understood. Learn to choose the correct chart for your data and format it neatly for a professional finish.

Lessons:

1. Building your first chart
2. Charting competitors
3. Showing market share
4. Importing charts from Excel
5. Line charts for large datasets
6. Area charts
7. Bubble charts for displaying markets
8. X-Y scatter plots & trend lines
9. Two charts in one
10. Waterfall charts
11. Growth rates & baselines on charts
12. What charts not to use

3.4 Custom Templates for your Business

Custom templates for your business look much better than PowerPoint's ready-made versions. Custom templates can also save you a lot of time when building slides. In this course, you will learn to make a full custom template for our fictional company, Zippy Airways.

Lessons:

1. What is a PowerPoint template?
2. Add a title banner
3. Choose a custom color palette
4. Change formatting defaults for text
5. Design custom slide layouts
6. Slide layouts for charts
7. Slide layouts for embedded video
8. Unique title slide layouts
9. Footers & page numbers
10. Set custom template as the default

3.5 Creating Business Presentations

This course steps away core PowerPoint functionality shows you how to structure your presentation and convey your insights in a clear and concise way. It also makes the important distinction between 'sit-down' and 'stand-up' presentations which will dictate the type of slides you create.

Lessons:

6. The two types of presentation
7. The pyramid principle
8. MECE part 1
9. MECE part 2
10. A dynamic table of contents
11. Using action titles
7. Designing data driven charts
8. Dealing with qualitative information
9. Mapping your data
10. Useful concept charts
11. Formatting tips for your deck
12. Summary, conclusion & appendix



Tableau Courses

4.1 Introducing Tableau

Our first Tableau course will show you how to connect datasets to Tableau, understand the user interface, create interactive visualizations and how to save and distribute your work.

Lessons:

1. Why use Tableau?
2. Understanding the family of Tableau Products
3. Introducing the data
4. Connecting datasets to Tableau
5. Understanding the Tableau user interface
6. Building our first visualization
7. Adding filters
8. Establishing relationships
9. Headings, details and tooltips
10. Formatting your Tableau workbook
11. Visualizing data over time
12. Saving and distributing your work

4.2 Creating Visualizations in Tableau

Tableau has many excellent visualization options for your data, from simple bar charts to interactive maps and box-plots. In this course, we will guide you through each type of visualization, learning how and when to use them.

Lessons:

1. Building Tableau visualizations
2. The five formatting options for your charts
3. Box plots
4. Tables, heat maps & tree maps
5. How to create two charts in one in Tableau
6. Using the analytics tab in your visualizations
7. Creating X-Y scatter plots for two measures
8. Introducing maps in Tableau
9. Symbol maps
10. Other charts part 1
11. Other charts part 2

4.3 Filter, Groups and Sets

Filters, sets and groups enable users to create custom lists and calculations that can enhance your ability to isolate certain portions of your dataset. Filters also create great interactive elements on your dashboards.

Lessons:

1. Extract filters
2. Data source filters
3. Context filters
4. Quick filters
5. Cascading filters
6. Filters & parameters
7. How & when to use groups in Tableau
8. Creating constant & computed sets

4.4 Formulas in Tableau Part 1

Tableau has its own Calculation Language that thankfully, is similar to SQL and Excel. In this course, you will learn to write some basic formulas in the Tableau Calculation Language, incorporating the most useful in-built functions such as LOOKUP() and WINDOWSUM()

Lessons:

1. How formulas are built in Tableau
2. Aggregate functions
3. Quick table calculations Part 1
4. Quick table calculations Part 2
5. Calculated fields Part 1
6. Calculated fields Part 2
7. Lookup functions in Tableau
8. Count & count distinct
9. Window functions
10. Running functions

4.5 Formulas in Tableau Part 2

In this second course on Tableau formulas, you will learn how to use logical functions, such as AND, IF and OR. In the second part of this course you will learn how to examine text, time and date functions and how they are best used in Tableau.

Lessons:

1. Logical functions Part 1
2. Logical functions Part 2
3. And() and or() functions in Tableau
4. Case() function
5. Dealing with null values
6. Dates in Tableau Part 1
7. Dates in Tableau Part 2
8. Searching for text in Tableau
9. Cleaning address data
10. Removing whitespace from strings of text

4.6 Level of Detail Expressions

In Tableau, it can be difficult to combine different levels of granularity in a single view. Level of Detail (LOD) Expressions solve this problem but do require some practice to master.

Lessons:

1. Why use LOD expressions?
2. Understanding the different types of LOD expression
3. Include expressions
4. Exclude expressions Part 1
5. Exclude expressions Part 2
6. Fixed expressions
7. Combining multiple LOD expressions
8. Table-scoped LOD expressions
9. Final thoughts on LOD expressions

4.7 Optimizing for Performance

Tableau's ability to combine multiple large data sources requires users to monitor performance and loading times very carefully. In this course, we learn some techniques for reducing loading times, from joining data sources to changing calculations.

Lessons:

1. Using the performance recorder
2. Optimizing extracts
3. Joining datasets Part 1
4. Joining datasets Part 2
5. Data blending Part 1
6. Data blending Part 2
7. Optimizing the view
8. Faster filters
9. Faster calculations

4.8 Advanced Visualizations in Tableau

This course moves beyond the regular visualizations in Tableau and shows you how to create more advanced charts such as layered maps, funnels and waterfall charts.

Lessons:

1. Adding trend lines to your data
2. Forecasting in Tableau
3. Two maps in one
4. Plotting routes in Tableau
5. Waterfall charts in Tableau
6. Funnel charts
7. Understanding polygons
8. Adding spatial files to Tableau

4.9 Connecting to Different Data Sources

Tableau contains many connectors to different data sources, from Google Sheets to SQL databases. In this course, you will learn how to connect to these data sources, create joins and blends across different data sources, and publish data sources to Tableau Online and Tableau Server.

Lessons:

1. Why use LOD expressions?
2. Understanding the different types of LOD expression
3. Include expressions
4. Exclude expressions Part 1
5. Exclude expressions Part 2
6. Fixed expressions
7. Combining multiple LOD expressions
8. Table-scoped LOD expressions
9. Final thoughts on LOD expressions

a Alteryx Courses

5.1 Getting Started in Alteryx

This course starts by explaining how to import different datasets into Alteryx. By making use of the tools such as data selection, comment and containers, we emphasize the importance of well laid out and correctly labelled workflows.

Lessons:

1. Accessing lesson and exercise files
2. Introduction and interface
3. How to import and view data
4. Q&A – interface and importing data
5. Data selection and organization part 1
6. Data selection and organization part 2
7. Record ID and cross tab
8. Filters and summarize
9. Messages window
10. Q&A – data type and messages
11. New data checklist
12. Comments and containers

5.2 Joining Data

In this course, you will explore the different ways that Alteryx can combine and separate data from various sources.

Lessons:

1. Union joins
2. Inner joins
3. Combined joins
4. Join multiple
5. Appending data
6. Q&A – Joining data

5.3 The Formula Tool

In almost all projects you will need to perform calculations so that data can be manipulated to facilitate further analysis. This course takes a detailed look at the formula tool – which holds many of the in-built calculation functions in Alteryx.

Lessons:

1. Introduction to the formula tool
2. Conditional expressions and conversions part 1
3. Conditional expressions and conversions part 2
4. Date and time basics
5. Converting two digit years
6. Converting serial no's to dates
7. Converting serial no's to time part 1
8. Converting serial no's to time part 2
9. Q&A – The formula tool
10. The multi field tool
11. The Multi-row tool part 1
12. The Multi-row tool part 2
13. Parsing text using the formula tool
14. Separating text with formulas part 1
15. Separating text with formulas part 2
16. Q&A – parsing data

5.4 Data Manipulation

Through this course, analysts will learn some more advanced techniques for parsing and manipulating data through Alteryx. Analysts are introduced to the concepts of Fuzzy Matching and Regular expressions through a series of in-depth lessons.

Lessons:

1. The text to columns tool
2. The unique and find and replace tools
3. Fuzzy match – data prep
4. Fuzzy match – tool configuration
5. Fuzzy match – iterating your results
6. Fuzzy match – cascading matches part 1
7. Fuzzy match – cascading matches part 2
8. Fuzzy matching review
9. Q&A – Fuzzy matching
10. Introduction to regular expressions
11. Dissecting a regular expression
12. Using the Regex tool
13. Other Regex outputs

5.5 Spatial Data and Mapping

Data visualization and geospatial mapping are increasingly popular business tools. In this course, you will explore how Alteryx can help analysts convert coordinates into recognizable geospatial data for mapping and analysis.

Lessons:

1. Creating a map point
2. Distance between points
3. Find nearest
4. Spatial match and making a grid
5. Heat maps
6. Trade areas
7. Q&A – Spatial data and mapping
8. Exporting mapped data to Tableau

5.6 Statistical Analysis

The statistical analysis tools provided by Alteryx allow you to employ advanced analysis techniques. Through this course, you will receive a brief background on statistical analysis concepts as well as in-depth training on how to develop models using the linear regression, logistic regression, and cluster analysis tools.

Lessons:

1. Review of fundamental statistical concepts part 1
2. Review of fundamental statistical concepts part 2
3. Review of fundamental statistical concepts part 3
4. Initial data investigation part 1
5. Initial data investigation part 2
6. Identifying significant variables
7. Analyzing regression results
8. Forecasting results with the score tool
9. Validating our regression model
10. Logistic regression part 1
11. Logistic regression part 2
12. Q&A – Regression analysis
13. Segmenting data into clusters
14. Cluster Analysis
15. Preparing cluster analysis for data visualization
16. Q&A – Data clustering

5.7 Time Series Analysis

In this course, you will explore the Alteryx time series tools. You will learn how to use historic data to make univariate and covariate forecasts. Using both Arima and ETS forecast models, you will learn how to compare forecast output. Finally, you will learn of the possible merits, together with the potential downside, of customizing your forecast model.

Lessons:

1. Introduction to Time Series forecasting
2. Forecasting methodologies in Alteryx
3. Data aggregation
4. Time series plot
5. ARIMA analysis
6. ETS analysis and comparing models
7. Forecasting weekly sales data
8. Preparing data for covariate forecasting
9. Running a covariate forecast
10. Time series model customization

5.8 Applications and Macros

Kubicle presents a series of lessons taking an in-depth look at the Alteryx interface tools, incorporating Analytical Applications and Macros. You will learn how to design and execute dynamic apps, and also how to create labor saving macros including Batch Macros and Iterative Macros. Finally, you will learn how to connect Analytical Applications in series where prior responses inform subsequent choices.

Lessons:

1. Introduction to application and macros
2. Analytical app – initial data preparation
3. Creating an analytical app
4. The interface designer
5. Adding dynamic filters
6. Alternative filters
7. Preparing data for a basic macro
8. Creating basic macros in Alteryx
9. Preparing data for a batch macro
10. Creating batch macros
11. Developing an iterative framework
12. Running our iterative macro
13. Developing a chained app framework
14. Creating our chained apps
15. Finalizing the chained apps

5.9 Predictive Modelling

Kubicle presents a series of lessons taking an in-depth look at the Alteryx predictive modelling tools. You will learn how to use sample data to train a predictive model, before then validating the resulting algorithm. You will be introduced to a range of supervised learning techniques before finally exporting the preferred models and fitting them to a new dataset simulating a real-world situation.

Lessons:

1. Introduction
2. Cleaning data
3. Decision tree models part 1
4. Decision tree models part 2
5. Decision tree models part 3
6. Decision tree models part 4
7. Decision tree models part 5
8. Calculating confusion matrix values
9. Boosted model
10. Forest models and neural networks
11. Naïve bayes
12. Comparing model accuracy
13. Exporting model object
14. Fitting a predictive model to a new dataset

Three new Alteryx coming in 2018

1. Combining Alteryx, Tableau & Excel
2. AB Testing
3. Webscraping