bristol business college
YOUR BEST BUSINESS DECISION

Analysing Statistics with Excel
1 Day Course

Overview
This one-day course is very hands-on where you learn real-world techniques to make statistics easy to understand. Within this growing dependency on statistics, there is an increasing need for more professionals to be able to think in a more statistical way.

Delegates will gain skills in writing powerful formulas using a variety of unexplored statistical functions.

Learning outcomes include obtaining a greater understanding of:
How to formulate robust stat models in Excel for optimum performance & output

Intro to statistical terms and how to read stat models used in the real world
- Types and examples of quantitative data: continuous, categorical, count
- Real world distributions e.g., normal, bimodal, uniform, skewed
- Key terms & calculations: mean; mode; median; percentile; deviation; range; ratio; probability; and risk

Benefits and best practice of statistical modelling in modern-day businesses
- Lots of dynamic & flexible spreadsheet models and examples for quick and easy output
- Streamline data heavy processes with stat functions: NORMDIST, STDEV, VAR, KURT, SKEW, LARGE, PERCENTILE, RANK, CORREL... and more

Associations | Trends | Regression
- Further advanced Excel techniques to generate statistical outputs
- Correlation vs Causation | Regression analysis
- Identify different types of data trends

Hypothesis testing
- The role of chance and how to assess it
- 'F-test' | 'T-test' | Analysing cross-sectional data
- Interpreting the results from the probability value

Statistical charts and associated tools
- Designing a 'Histogram' to visualise data flow
- Create an 'Ogive' chart and extract the results

Bonus topics:
- Understanding population and sampling
- 2 techniques for analysing business trends via a 'Frequency Distribution Table'
- How to read an 'ANOVA Table'
- A fully automatic 'Statistical Distribution Dashboard' to take away
- Homework topics for further study

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