

# Excel Statistics

## Course Outline

### Basic Statistics

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#### Statistical Functions

These foundational statistical functions can be used to perform basic calculations on ranges of values

#### Ranking Functions

Rank values to establish percentages and percentiles

#### Data Analysis Toolpack

Quickly and easily perform statistical calculations with the Data Analysis Toolpack add-in

### Statistical Analysis

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#### Descriptive Statistics

Compare two sets of data by 16 different, statistical measures

#### t tests

Calculates whether the means of two groups are statistically different from each other

#### Straight Line Analysis

Graphically estimate the relationship between two variables

#### Simple Linear Regression

Estimate the relationship between two variables

#### Multiple Regression

Estimate the relationship between more than two variables

### Charts

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#### Histogram

Divide values into intervals and represent the frequency of data values in each interval with a bar

#### Waterfall chart

Visually display how an initial value is affected by a series of positive and negative values

### Probability and Forecast Modelling

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### **POISSON Distribution**

Calculate the probability of a given number of events occurring in a fixed interval of time or space

### **Solver**

Calculate optimal solutions to multi-variable decision problems

### **Monte Carlo simulation**

Better understand the impact of risk and uncertainty in forecasting models

### **Resampling**

Make statistical inferences from data by sampling with replacement

## **Contact**

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