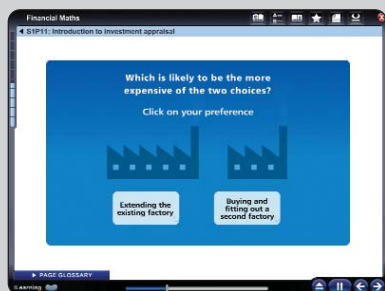
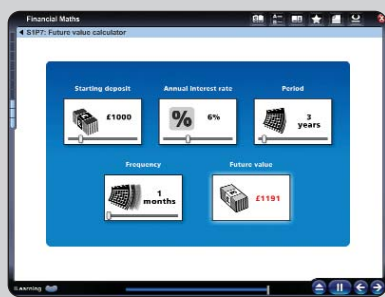
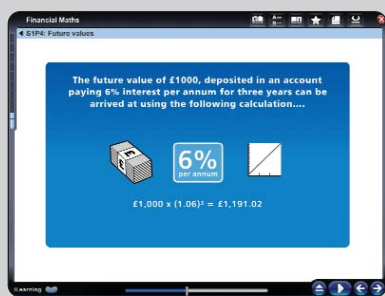


Financial Maths E-learning course



For anyone working or hoping to work within the world of finance or commerce, knowledge of financial maths is fundamental. CTG's Financial Maths e-learning training course meets this need by offering practical, interactive training to enable users to gain a robust understanding of financial mathematics. The course uses voice, animation and exceptional graphics and will take two to three hours to complete, depending upon the capability of the delegate. The topics covered include the foundations for financial decision making, such as discounting, net present values and internal rate of return as well as the concepts that underpin the valuation of any asset. Its coverage is vital for those working within financial institutions as well as decision makers in corporate entities.



Target audience

- New staff starting finance roles within corporate entities
- New starters at banks, asset management companies and other financial institutions
- Experienced staff within the commercial side of business needing to increase their financial awareness, such as; Board directors, Senior managers, Project managers, Departmental heads
- Early stage accountancy and MBA students
- Anyone wanting or requiring a firm grasp of finance

Learning outcomes

On completion of this course, the delegate will be able to:

- Explain the concept of time value of money
- Calculate future values given the present value and the interest rate
- Explain the impact frequency of interest has on future values
- Calculate and explain the effective annual rate of interest, given the interest rate and frequency
- Calculate present values given the future value(s) and the rate of interest
- Summarise and apply net present value (NPV) as a tool of investment appraisal
- Summarise and apply internal rate of return (IRR) as a tool of investment appraisal
- Calculate the present value of annuities and perpetuities, including perpetuities with constant growth
- Explain and apply the Excel IRR, PV and PMT functions

Benefits

- Pace of learning is entirely driven by the delegate
- Coverage is practical, interactive and memorable
- Increased knowledge retention
- The ability to revisit the contents
- Accessible from any location
- No associated travel or accommodation costs
- Anyone wanting or requiring a firm grasp of finance

Why e-learning?

Technological developments and advances in instructional design mean that e-learning is no longer just a low-cost alternative to traditional training. In many respects, this course offers training which is actually superior to the majority of available 'classroom' options.

Convenience, cost efficiency and the enhanced effectiveness make e-learning the compelling option for training. Delegates can concentrate their efforts on what they need at any time, and in any place – they can learn at their own pace, repeating each section as many times as necessary for them.

What's included?

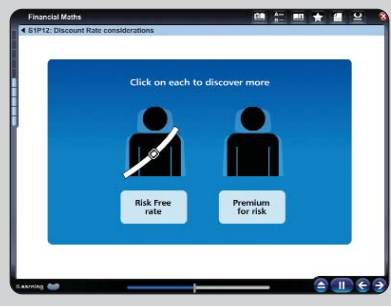
- The full course can be delivered by CD-ROM, network, intranet or hosted by CTG
- Easily digestible modules
- Quality graphics, captivating animations and a professional voiceover
- High degree of interactivity to maintain learner interest
- Special features such as present value and mortgage calculators
- Additional features include illustrations of how Microsoft Excel can be utilised to generate net present values, internal rates of return and annuity payments
- Sticky notes, a 'favourites' option, simple administrative functionality, review bar and real-time pause are all incorporated into the product
- A comprehensive maintenance service so that the course is kept up to date
- Simple, logical navigation including keyword search



Minimum Requirements

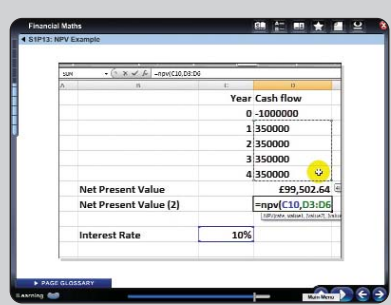
The course is designed to run on a multimedia PC with Windows, CD-ROM, sound and display resolution of at least 1024 x 768. Apple Mac course options are also available.

Financial Maths Course Synopsis



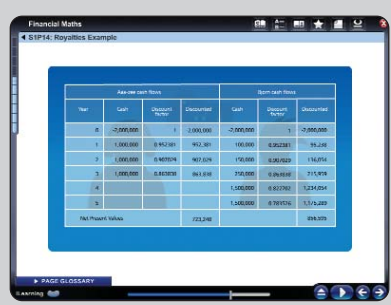
- **Introduction to the course including navigation and key features**

- **Future value calculator**
 - > A variant on the earlier calculator that incorporates more frequent than annual interest rates



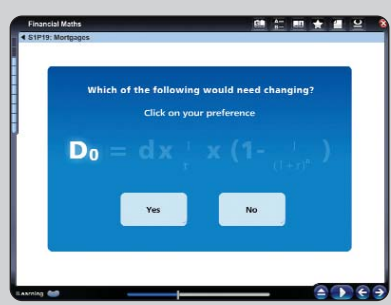
- **The concept of time value**
 - > An interactive exercise exploring the link between future and present values using the interest rate

- **Effective Annual Rates (EAR)**
 - > Calculating the EAR and distinguishing it from the quoted rate



- **Compounding**
 - > Outline of the mathematical relationship between the present value and its future equivalent
- **Future values – the formula**
 - > A 'rollover' page that enables the learner to explore the elements of the formula to calculate a future value

- **Discounting**
 - > Building on the knowledge gained so far to derive the formula for calculating the present value from given future values



- **Simple future value calculator**
 - > An interactive tool that allows the user to vary the starting amount, time period and interest rate to arrive at the equivalent future value

- **Investment appraisal**
 - > Discount rate considerations
 - > Net Present Value (NPV)
 - > NPV using Excel
 - > Reinforcing exercise
 - > Internal Rate of Return (IRR)
 - > IRR using Excel

- **Interest payments more frequent than annual**
 - > Outline of the adjustments that are required if interest is credited more frequently than annually

- **Annuities and mortgages**
 - > Introducing the concept and uses of the annuity formula
 - > Annuities and mortgages using Excel
 - > Mortgage calculator

- **Perpetuities**
 - > An outline of the concept, calculation and formula for a perpetuity
 - > The formula and an illustration of the use of a perpetuity with constant growth