



Financial Mathematics

(part of Fundamental CIP[®], Candidate CIP[®], CIP[®])

This course is ideal for advisors and specialists in the financial world, especially for financial professionals who wish to have a better insight in mathematical problems. Those who understand financial mathematics can make calculations in the area of commodities, securities market, insurances, finance and financial agreements.

This field can only be mastered through practice; during the course a lot of financial mathematical problems and cases will be discussed and solved.

In addition, this course forms part of the CIP program.

Training Method

- Prior to the 1-day course, the participant will receive some study materials. In order to be able to participate at the fullest during the course and to achieve optimum results, the participant is required to study these materials before the course starts;
- A 1-day intensive course in which theory is illustrated with practical examples and current events, from the perspective learning-by-doing. The participant will study mathematic problems from real-life cases and review the results directly with the trainer;
- The course is ended with an exam. Once the participant passes the exam, he/she will receive the CIP certificate for Financial Mathematics.

Topics

During the course Financial Mathematics the following topics will be treated:

- Cash flows and cash flow schedules;
- Nominal and real interest rates: inflation;
- Discount rate (interest to be paid upfront) and interest (simple and compound);
- Calculate an annual interest rate to for example a quarterly interest (and viceversa);
- Time value of money: net present value, future value, annuity, internal rate of interest and yield;
- Present value of perpetual cash flows;
- Calculations of investment return: rate of return, calculate rate of return on loans (bonds), working with half year coupons.

Results

After completion of the course Financial Mathematics, the participant will be able to:

- ✓ Calculate the cash value and end value of one cash flow;
- ✓ Calculate the cash value and end value of a stream of cash flows;
- ✓ Distinguish and calculate simple and compound interest;
- ✓ Calculate an annual interest rate to a quarterly interest and vice versa;
- ✓ Understand and calculate annuity and various types of annuity loan payments;
- ✓ Make and understand calculations of investment return.



Course Particulars

The course materials of Financial Mathematics are offered in the English language. The relevant material will also be available in English. Classroom training can be offered in Dutch and English language (on request).

Literature

Reader Financial Mathematics (2014), 50 pages, Presentation Sheets, Formula sheets, Practice Exam

Study, time and preparation:

	Hours
• Preparation (indication)	4 - 8
• Course 1 x 8 hours*	8
• Exam preparation (indication)	8
• Exam	1

Total

25 hours

**Optional*

This workload equals **1,5 European Credits (EC)**.

Note: this time is dependent on the experience of the participant and is only an indication.

Costs

Study material costs are € 325 (ex VAT) per person for the study materials and 1 exam. Classroom costs are € 350 (ex VAT) per person. Re-examination costs per module is € 75,-.

In-company training for this course is also available for groups from 5 up to 20 people, please contact us for further information.

For information on costs for the complete CIP programs please see our special 'Product Suite CIP' leaflet or check the website: www.foundationcip.com