

C03 - Fundamentals of Business Mathematics (2011 syllabus)

A guide for students

Introduction

The Certificate in Business Accounting syllabus for 2011 is a closer fit with our 2010 Chartered Management Accounting Qualification.

The 2011 Certificate in Business Accounting syllabus also uses a format which links the lead aims, learning outcomes and syllabus content more explicitly.

This guide will provide you with information about the C02 Paper, Fundamentals of Financial Accounting 2011 syllabus.

Section A – The syllabus structure and learning outcomes

The C03 syllabus is split into 7 topic areas:

- A. Basic Mathematics (15%)
- B. Probability (15%)
- C. Summarising and Analysing Data (15%)
- D. Relationship between Variables (15%)
- E. Forecasting (15%)
- F. Financial Mathematics (15%)
- G. Spread sheets (10%)

Go to <http://www.cimaglobal.com/Students/Exam-preparation/> for the full syllabus

The % weighting is shown against each topic area. This is provided as a guide to the proportion of study time each area requires. The study weightings also indicate the approximate proportional distribution of marks that will be allocated to topics in any single computer based examination.

It is essential that all areas in the syllabus are studied, since any single exam question may examine more than one topic.

Each subject within the syllabus is divided into a number of broad syllabus topics. The topics contain one or more lead learning outcomes, related component learning outcomes and indicative knowledge content.

A learning outcome has two main purposes:

- (a) to define the skill or ability that a well prepared candidate should be able to exhibit in the examination
- (b) to demonstrate the approach likely to be taken in examination questions.

The learning outcomes are part of a hierarchy of learning objectives. The verbs used at the beginning of each learning outcome relate to a specific learning objective.

The following table lists the hierarchy of learning objectives and verbs used by CIMA.

In the CIMA Certificate in Business Accounting syllabus only verbs from levels 1, 2 and 3 (knowledge, comprehension and application) are used in the component learning outcomes and therefore only verbs from these three levels can be used in the assessments.

LEARNING OBJECTIVE	VERBS USED	DEFINITION
Level 1 KNOWLEDGE What you are expected to know.	List State Define	Make a list of Express, fully or clearly, the details of/facts of Give the exact meaning of
Level 2 COMPREHENSION What you are expected to understand.	Describe Distinguish Explain Identify Illustrate	Communicate the key features Highlight the differences between Make clear or intelligible/State the meaning or Purpose of Recognise, establish or select after Consideration Use an example to describe or explain Something
Level 3 APPLICATION How you are expected to apply your knowledge.	Apply Calculate Demonstrate Prepare Reconcile Solve Tabulate	Put to practical use Ascertain or reckon mathematically Prove with certainty or to exhibit by practical means Make or get ready for use Make or prove consistent/compatible Find an answer to Arrange in a table

Example from C03 Fundamentals of Business Mathematics syllabus

Component learning outcome – ‘demonstrate the use of expected value tables in decision making’

The verb ‘Demonstrate’ is from Level 3 in the learning objective hierarchy. Therefore an assessment question based on this component learning outcome could use one of the verbs from level 3 or from the lower level 2 & 1 but a higher level verb could not be used to test this learning outcome.

The skills or ability demonstrated at level 4 (analysis) and level 5 (evaluation) will not be examined at the Certificate level and verbs from these levels will not be found in the component learning outcomes for any Certificate syllabus.

Section B – Studying for C03 Fundamentals of Business Mathematics

We recommend that, wherever possible, you attend a course taught by an approved CIMA Learning Quality Partner. Visit our college list at www.cimaglobal.com/colleges to find details of colleges local to you that teach the Certificate level.

The official CIMA study texts have full syllabus coverage for each new certificate subject.

Please remember that exams based on the CIMA certificate in business accounting 2011 syllabus have been available since 3 October 2011 and exams based on the 2006 syllabus will also be available until 30 June 2012.

Please ensure you are using the correct syllabus textbooks or learning material for the exams you intend to sit. [Find out more and order your copies of the CIMA study texts from CIMA Publishing.](#)

You can also study for the certificate subjects with [CIMAstudy.com](#) - the CIMA endorsed online study system.

Each subject has a '[Study Resources](#)' area on the website. From here you will find guides, reading lists and useful articles.

Question practice is an important part of preparing for the exams – find more information about [practice questions for C03](#).

CIMAsphere, our online community, provides a resource for students to share information and find expertise and support among peers, as well as gain advice from CIMA members and alumni. See the [certificate level discussion board](#).

You can choose to study for and take the five Certificate exams in any order and combination to suit your own study requirements. See Section F of this guide for links to further guidance.

Section C – Assessment strategy and assessment information

All exams under the 2011 Certificate syllabus are computer based. You can sit the exams at any time of the year in one of our accredited computer based assessment centres worldwide.

[Find full details about entering certificate exams here.](#)

For C03 Fundamentals of Business Mathematics there will be a two hour computer based assessment, comprising 45 compulsory questions, each with one or more parts.

A variety of objective test question styles and types are used within each of the assessments. The most common type of objective test question is multiple choices. We also use other types of objective test questions such as matching pairs of text and graphic, sequencing and ranking, labelling diagrams and single and multiple numeric entries.

Guidance will normally be given with regard to the rounding of answers, for example “to 2 decimal places” or “to the nearest £”. If no guidance is given, then candidates should give their answers to 2 decimal places.

Examples of objective test questions for C03

Example question 1

Twenty four amounts, each of £50, are to be deposited into an account at monthly intervals starting today, the compound rate of interest is 2% per month.

What is the total amount in the account after two years (to the nearest £) £_____

Example question 2

A retailer buys a box of a product, which nominally contains Q units. The planned selling price of each unit is £P. If both P and Q have been rounded to $\pm 10\%$, then the maximum rounding error in total revenue is

- A 10%
- B 20%
- C 21%
- D $0.1Q \times 0.1P$

Receive results and feedback when you finish

The pass mark for each Certificate exams is 50%. A permanent credit is awarded to you if you score 50% or more.

You will see your results and indicative feedback onscreen as soon as your assessment has finished. It will take between five and seven days for your results to show in your MY CIMA account.

If you are successful, you will receive a certificate of achievement and your exam status will automatically be updated at CIMA.

If you are unsuccessful, the feedback will show where you should focus your studies in the syllabus. You can arrange your resit when you are ready.

Calculators

Keep up to date with guidance on using calculators in the Certificate computer based assessments. On-screen calculator is provided within the exam. [Guidance notes](#) on the calculator and how to test it are available [here](#).

[Exam video of online assessment and how to use on-screen calculator](#)

Section D – Exemptions

You may be exempt from some or all of the CIMA Certificate in Business Accounting exams if you have a relevant degree, have completed the AAT Technician stage, or have studied another professional accounting qualification. You can find more information at www.cimaglobal.com/exemptions

Before accepting any exemptions you should consider the CIMA syllabus for the subject and make sure you are confident that you could pass it. This material will be built on in the later stages of CIMA's Professional qualification so it is important that you have a thorough understanding and good knowledge of any subject before accepting an exemption.

Section E - Useful reading

[The CIMA certificate in business accounting 2011 syllabus](#) (PDF 1MB).

[Transition arrangements](#) (PDF 27KB) between the 2006 and 2011 syllabi.

[Article](#) published in the July/August 2011 issue of Financial Management summarising the subject changes.

Article published in the April 2011 issue of Velocity giving guidance on [starting to study the certificate level](#) including suggestions on how long you should aim to complete it in, study times and advice on which order to complete the subjects

[Struggling with business English?](#)

[Struggling with mathematics?](#)

[Other useful articles from Financial Management and Velocity](#)