CBEs

COMPUTER-BASED EXAMS – PREPARING FOR THE EXPERIENCE RELEVANT TO THE FOUNDATIONS IN ACCOUNTANCY SUITE OF AWARDS AND ACCA QUALIFICATION PAPERS F1 TO F3

This article considers the benefits of computer-based exams (CBEs), highlights the points that you need to be aware of when completing ACCA's current CBEs, and looks at the different types of questions featured in these exams. It relates specifically to the new syllabus exams, which will be available from December 2011.

COMPUTER-BASED EXAMS AT ACCA

ACCA has offered CBEs since 1998. The launch of the Foundations in Accountancy suite of awards sees an increased number of papers being assessed via CBE and provides the next step in the move towards ACCA's vision to deliver all exams via e-assessment. The papers shown in **Table 1** will be assessed by CBE from December 2011.

A rigorous approach is taken when developing CBEs. Questions are written by experienced writers. They are then thoroughly reviewed by examiners, staff in the qualifications team at ACCA and other technical experts at various points during their development. Questions are trialled in exam conditions to gather statistical data on how they work and, if necessary, questions are revised in light of this data. It is only when a question has successfully completed all of these stages that it is ready to be included in an actual exam.

COMPUTER BASED V PAPER BASED?

CBEs offer specific benefits over paper-based exams. A particular benefit of the current CBEs is that they can be automatically marked by computer, which means that you can receive your results soon after completing the exam.

It is also possible for you to complete these CBEs at any time of year rather than being restricted to the June or December exam sessions. Exams are automatically constructed from a large bank of questions, which means that a group of students taking the same exam in the same place and at the same time will be presented with different questions, in different orders. Questions are specifically written for the CBE question banks. The CBE system ensures that each exam contains questions drawn from areas across the syllabus, but there is no way of predicting the actual questions which will be included in an exam.

TABLE 1: COMPUTER-BASED EXAMS

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FMA

Introductory Certificate in Financial and Management Accounting

FA1 Recording Financial Transactions MA1 Management Information Intermediate Certificate in Financial and Management Accounting

FA2 Maintaining Financial Records MA2 Managing Costs and Finance Diploma in Accounting and Business FAB Accountant in Business FFA Financial Accounting

Management Accounting

ACCA QUALIFICATION

Knowledge module

F1 Accountant in Business F2 Management Accounting

F3 Financial Accounting

Equivalent exams are currently available in paper-based format. However, completing a CBE is a very different experience to completing an exam on paper. The types of questions included in each format will be similar, but the way that each question is presented, and the answer recorded, differs between the two. In a CBE, candidates record their answers on the same screen where the question is shown; for paper-based multiple-choice exams answers are recorded on a separate Candidate Registration Sheet (CRS). Also, the whole experience of moving between questions and progressing through the exam is quite different. In a paper-based exam, you can see several questions at a time, whereas in a CBE students are presented with one question at a time to help them to focus on each question in turn. Another difference is in the way we read information presented in different formats; because of our experience online our eyes tend to jump around the computer screen rather than read it systematically as we would a printed page. For CBEs, therefore, remember to take time to read the question

carefully to ensure you don't miss any

important information.

These differences mean that it is important for you to take time to familiarise yourself with the experience of completing exams as CBEs. Go to www.accaglobal.com/students/exams/cbes/demo to access materials which will help to familiarise you with the CBE system. By practising exam technique using computer-based practice tests, you will be able to concentrate on answering the questions, rather than understanding the system, when you eventually take a real CBF

USING THE CBE SYSTEM

Actions associated with paper-based exams, such as turning a page, need to be recreated in different ways in a CBE. This is achieved by reserving part of the screen for tools which enable movement between questions and which also to help you monitor your progress through the exam, as can be seen in **Figure 1**, an example of a CBE question from a Paper FMA exam. The real exams include additional features, such as a timer to show how much time is remaining and a drop down list of questions showing the questions not yet answered.

A PARTICULAR BENEFIT OF THE CURRENT
COMPUTER-BASED EXAMS IS THAT THEY CAN
BE AUTOMATICALLY MARKED BY COMPUTER, WHICH
MEANS THAT YOU CAN RECEIVE YOUR RESULTS SOON
AFTER COMPLETING THE EXAM.

FIGURE 1: SAMPLE SCREEN FROM THE FMA CBE



Once you have entered your answer for a question, it is important to click on the 'Submit' button, for your answer to be saved. You can revisit questions and change answers by clicking on the 'Clear' button to remove your old answer; remember to click on 'Submit' to save your new answer once you have entered it

Use the drop down question list and the timer to monitor your progress through an exam. For example, if you are less than halfway through an exam with only one of the two hours remaining then you are probably spending too much time on each question and should move through the remaining questions more quickly.

Do not spend a lot of time on questions you are unsure of; instead, move on and come back to these questions at the end of the exam. Any questions that you could not answer first time through will be highlighted by an asterisk in the question list and you can quickly move to these questions by clicking on the relevant question number in the list. When you return to these more difficult questions, if you still cannot work out the answer, then guess the most likely option and submit this response. For number entry questions, where no answer options are given, you should enter a number that you believe could be correct. You will not lose any marks for an incorrect guess.

QUESTION TYPES

Currently, ACCA CBEs comprise four main question types: multiple choice, multiple response, multiple response matching and number entry. All questions are worth two marks. **Table 2** shows the question types available in each CBE.

MULTIPLE-CHOICE QUESTIONS (MCQS)

MCQs are the most commonly used question type and feature in all of ACCA's CBEs. Questions typically have four answer options, although some questions may have more than this.

Figure 2 shows an example of an MCQ from the FA1 exam.

Figure 2: Multiple-choice question

STUDENT ACCOUNTANT

This question type comprises a question and several answer options; only one of which is correct. Some questions also include a 'question stem' – additional information needed to help you work out the answer. This information is presented in a box at the top of the screen.

You answer the question by clicking on the 'radio' button next to your chosen answer option, and then clicking the 'Submit' button. The computer prevents you from selecting more than one answer option at a time. You must press the 'Submit' button if you change your answer, otherwise your previous answer will be the one that is saved at the end of the exam.

MULTIPLE-RESPONSE QUESTIONS

Questions typically have four answer options, two of which are correct. However, sometimes the number of correct answer options varies, so it is important that you read the question carefully to see how many correct options you are looking for. **Figure 3** shows a multiple-response question from a Paper FAB exam.

TABLE 2: CC)MPUTER-BASE	D EXAM QUES	TION TYPES		
TYPE	FIA FA1 AND MA1	FIA FA2 AND MA2	FIA – FAB ACCA – F1	FIA – FMA ACCA – F2	FIA – FFA ACCA – F3
Multiple choice	~	•	•	•	•
Multiple response		~	~	~	~
Multiple response matching		✓	V	V	~
Number entry		V		•	~



FIGURE 2: MULTIPLE-CHOICE QUESTION

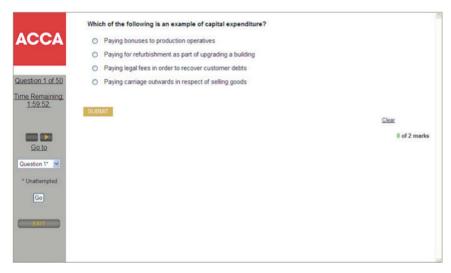


FIGURE 3: MULTIPLE-RESPONSE QUESTION



IF A MULTIPLE-RESPONSE QUESTION INVOLVES A CALCULATION, WORK OUT THE ANSWER RATHER THAN SIMPLY SELECTING THE OPTION THAT LOOKS MOST LIKELY TO BE CORRECT. YOU CAN START BY DISCOUNTING ANSWERS THAT YOU KNOW ARE INCORRECT.

Figure 3: Multiple-response question

Although multiple-response questions appear to be very similar to MCQs, you have to select more than one option by clicking on the square 'tick boxes' next to your chosen options, then clicking the 'Submit' button. If you select an incorrect number of answer options and then click 'Submit', a pop-up box will remind you of the number of options that you are required to select.

ANSWERING MULTIPLE-CHOICE AND MULTIPLE-RESPONSE QUESTIONS

For MCQs and multiple-response questions, all incorrect answer options have been chosen carefully because they are common incorrect responses to the question. At first glance, all answer options may appear plausible. It is, therefore, important to take the time to read all the answer options carefully rather than choosing those that look most obviously correct.

If the question involves a calculation, work out the answer rather than simply selecting the option that looks most likely to be correct. If you find a particular question difficult, start by discounting any answer options that you know are incorrect and then concentrate in more detail on those that remain

MULTIPLE-RESPONSE MATCHING QUESTIONS

Figure 4, from the FMA exam, shows the standard layout for multiple-response matching questions.

Figure 4: Multiple-response matching question

This type of question comprises the actual question and several statements related to the question. Each statement is accompanied by several response options, in **Figure 3** these are 'abnormal gain' and 'abnormal loss'. Each statement should be matched its correct response by clicking on the corresponding radio button in the row for the statement. Each statement needs to be completed correctly for the award of two marks.



FIGURE 4: MULTIPLE-RESPONSE MATCHING QUESTION

A	PERMIT	Negatives and the second of the second	02010000000000000000	94/10/37 (1421/7/SQ)	
A	Process	Normal loss as % of input	Input (litres)	Output (litres)	
	F	8	65,000	58,900	
	G	5	37,500	35,700	
50 For each pro	cess, was there	an abnormal loss or an abnorma	gain?		
ing:		Abnormal loss	Abnormal gain		
Process F		0		0	
Process G		0		0	
SUBMIT					
~				2	lear
5					0 of
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FIGURE 5: NUMBER ENTRY QUESTION



COMPLETING A CBE IS STRAIGHTFORWARD WHEN YOU ARE FAMILIAR WITH WHAT IS REQUIRED. BEFORE YOU TAKE YOUR FIRST CBE, GO TO WWW.ACCAGLOBAL. COM/STUDENTS/EXAMS/CBES/DEMO AND USE THE FAMILIARISATION MATERIALS FOUND THERE.

If only one statement is completed correctly you will not be awarded any marks. If you do not select a response for each statement, when you click 'Submit' a pop-up box will appear to remind you of the total number of responses that you should select.

NUMBER ENTRY QUESTIONS

The example in **Figure 5** is from a Paper MA2 exam.

Figure 5: Number entry question

This is the only question type in a CBE where you need to enter the correct answer yourself, rather than choose from a list of options. To gain marks for a correct value, remember that numerical answers should be submitted without commas and using the full stop as a decimal point (eg 10530.25).

If you enter letters or symbols that the CBE system does not recognise, the system will either change or ignore your answer. Therefore before you press the 'Submit' button, check that you have presented your answer using the correct format.

Once you have clicked 'Submit', check that your answer is presented correctly next to the label 'Your currently accepted answer'. If it does not appear as you intended press 'Clear' and try again.

SUMMARY

Completing a CBE is straightforward when you are familiar with what is required. Before you take your first CBE, go to www.accaglobal.com/students/exams/cbes/demo and use the familiarisation materials found there.

Remember, the computer will make sure that you select the correct number of answer options for each question; it is up to you to make sure that you choose the correct ones.

Helen Claydon is ACCA qualifications e-assessment manager