

Revision Lectures & Examinations

Cleanroom Technology

Revision Lectures and Examination

European candidates must attend a one-day course and examination. Candidates in other parts of the world may study 'at home'. During attendance at the one day course and exams, revision lectures will be given, and a written examination held after the lectures.

The exam will have questions that will be short and no essays are required. The pass mark is 50%. The questions will be similar, or identical, to those in the sample questions and answers handbook. It is anticipated that about 80% of the candidates will pass the exam on the first attempt. There is an appeals procedure, but the decision of the examination board is final. Anyone failing an exam can re-sit.

It is possible to be examined in a country outside Europe, but the exam must be held at a Centre approved by CTCB e.g. the British Council, or College or University. It is the candidate's responsibility to organise such a centre, provide proof of the exam security, and pay any fee. The CTCB is always prepared to consider new examination venues and organising societies provided that sufficient support can be obtained.

Fee Elements

The price is advertised in the notices for each course and with the booking forms. There are separate fees for each of the elements below:

Registration, which includes:

- being entered as a candidate
- a copy of the book 'Cleanroom Technology - Fundamentals of Design, Testing and Operation'
- sample questions and answers handbook
- an example of the written exam
- certificate on successfully passing the exam

If a candidate already possesses the course book, the cost will be reduced accordingly.

Revision Course and Exam: This is over one day and includes:

- a revision lecture course
- two hour written exam

Resits

Candidates can re-sit the exam if they fail. There is likely to be an opportunity every 6 to 12 months, depending on demand.

Cleanroom Testing/Validation

Revision Lectures, Practical Training and Examination

Candidates for the professional certification will attend for three days and receive practical training, a lecture revision course and sit practical and written examinations. The Associate candidates will attend for two days and receive practical training, a lecture revision course and sit a written exam. These days will be structured as follows:

First day: Practical training

Second morning: Revision lecture course

Second afternoon: Theory written exam

Third day: Practical exams (only for professional candidates)

The days will be organised as follows:

First Day Practical Training: This course will cover:

- *Filter integrity testing*. Information will be given on an aerosol smoke generator and photometer, and how these are used to test filter integrity. The technique will be demonstrated and each student will have an opportunity to use the method.
- *Air velocity and volume flow measurement*. Information will be given on how to carry out testing using an anemometer, hood capture method, averaging pressure flowmeter, and Pitot-static tube. The techniques will be demonstrated and there will be an opportunity for each student to use the methods.

Second Day Revision Lecture Course: A morning is spent at a lecture course revising the course notes.

Second Day Theory Exam: This will examine the candidate's knowledge of the course notes. The questions will be short and of the type that can be answered by no more than 10 words; no essays are required. The questions will be similar, or identical, to those given in the question and answers handbook. The pass mark is 50%.

Third Day Practical Exam: The professional candidates will be examined on their competence to carry out the following important tests:

- Determine the average air velocity and uniformity, as well as the volume of air passing through a HEPA fan/filter unit by use of an anemometer. Measurement by use of the hood capture method must also be demonstrated.
- Demonstrate that they can operate a smoke generator and photometer to find leaks in a filter and filter gasket.

The candidate will be required to competently write up reports on the results of the two tests.

The candidate's exam results are assessed by an Examination Board drawn from the CTCB Advisory Board. It is anticipated that about 70% of the candidates will pass their exams in the first attempt. The CTCB has an examination appeals procedure. Anyone failing an exam can re-sit it at the next examination. This can be done in the UK, or at another CTCB Cleanroom Testing certification course in Ireland and Sweden.

Fee Elements

The price is advertised in the notices for each course and with the booking forms. There are separate fees for each of the elements below:

Registration for associate and professional candidates, which includes:

- being entered as a candidate
- receiving a set of self-teaching course notes;
- receiving a questions and answers handbook
- receiving a past exam paper
- a certificate on satisfactory completion of the course

Lecture course and exam

Professional three-day course which includes:

- one-day practical training course
- a revision lecture course
- written and practical exams

Associate two-day course including:

- practical training course
- a revision lecture course
- written exam

Coffee, tea and lunch over the course will be included in the cost.

Exam Re-sit

Candidates can re-sit their exams. There is likely to be an opportunity every 6 months.

Note: Any costs required for accommodation and other meals are the responsibility of the candidate.

For current information and costs please contact CTCB.

[Version 2010-07-28]