

This is the tenth series of Practical training, seminars and examinations held in Ireland since the programme began in 2003. So far over 130 Professional and Associate qualifications have been awarded.

The next three day course and examination will be held at the Carnegie Court Hotel, North Street, Swords. This hotel is about 5 minutes from Dublin Airport by taxi and 20 minutes from Dublin City Centre, Full instructions will be sent with the confirmation of the booking.

Numbers of necessity are limited by availability of Filter Test rig time and early registration is recommended.

For full details about how to register for CTCB training and examination please contact

CTCB Training Coordinator , Irish Cleanroom Society , c/o Fernie Technical Services,
Tawin Maree, Oranmore, Galway

Tel 091 790 693; Fax 091 790694 ; email : emat@iol.ie : www.irish-cleanrooms.ie

Attendance & booking details

- Bookings will be accepted on a first come first served basis.
- Places are limited. Please book early
- Your participation fee or credit card number or a purchase order number must accompany your booking.
- All bookings will be confirmed within 10 days . **After October 1 2010 the fee is non refundable. Cancellation within 60 days before the course is subject to a 50% cancellation charge**
- The course will be held at the Carnegie Court Hotel , Swords , Co. Dublin
Location information will be sent with your confirmation of booking



CLEANROOM TESTING AND CERTIFICATION

Certification Course & Examinations 2010

The Carnegie Court Hotel
Swords
Co.Dublin

2,3,4 NOVEMBER 2010

Candidates for both Professional and Associate CTCB Certification must attend a two-day practical training course, revision lecture and written examinations. Professional candidates additionally have to take and pass a two hour practical examination on the third day

The Programme is as follows:

DAY ONE - TUESDAY 2 NOVEMBER 2010

0800-0900	Registration
0900-1100	Filter integrity testing - theory
1100-1700	Practical Training and Lunch

This course is a preparation for the practical examination and will cover:

1. **Filter integrity testing.** Instruction will be given about smoke generators and photometers and how these are used to test filter integrity. The technique will be demonstrated and students will have an opportunity to practice the method.
2. **Measurement of air velocity and volume flow.** Information will be given on how to measure these using an anemometer, hood capture, Pitot static tube and veloprobe. The techniques will be demonstrated and students will have an opportunity to practice the methods.

DAY TWO - WEDNESDAY 3 NOVEMBER 2010

0900-1300	Revision Course
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During this session the following course notes will be revised :

- The reasons for validating a cleanroom and the validation philosophy
- How a cleanroom air conditioning plant works
- Validation standards
- Air volumes and velocities
- Differential pressures
- Infiltration of contamination into a cleanroom
- Air movement control within a cleanroom
- Air filter integrity tests
- Particle measuring methods according to ISO 14644-1
- Microbiological measurements

1300-1400	Lunch
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1400-1600 **Written Theory Examination**

This will examine the candidate's knowledge of the course notes. Questions will be short and of the type that can be answered in 10 words; no essays are required. The questions will be similar, or identical to those given along with the course notes.

DAY THREE - THURSDAY 4 NOVEMBER 2010

0800-1730	Practical examinations (Professional only)
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The third day is devoted to the practical examinations. Professional candidates must complete two tasks. These are:

1. Demonstrate their ability to use a smoke generator and photometer. Use them to find leaks in a filter and its housing. A maximum of 30 minutes is allowed for this test. A report of the test must then be completed within 30 minutes
2. Measure the velocities with an anemometer over the surface of a filter and work out the air supply volume. Use a hood capture method to measure the airflow. A maximum of 30 minutes is allowed for this test. A report of the test must then be completed within 30 minutes

Professional candidates are expected to carry out the above tests competently and accurately by measuring the airflows and finding the filter leaks.

The examinations will be marked in two parts i.e. practical and theoretical, so that it is possible to pass none, one or both examinations. It is necessary to pass both examinations to be certified. Anyone failing an exam may re-sit it at the next examination.