

School of Healthcare

FACULTY OF MEDICINE AND HEALTH



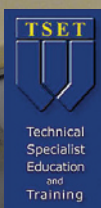
UNIVERSITY OF LEEDS



# Specialised Ventilation in Healthcare Premises

(creating a suitable environment and its role in infection control)

Wednesday 9 – Friday 11 November 2011



Course Director  
Malcolm Thomas

SoH  
DRIVING POSITIVE  
CHANGE

**SPECIALISED VENTILATION IN HEALTHCARE PREMISES (SVHP) COURSE**  
(Creating a suitable environment and its role in infection control)

Wednesday 9 – Friday 11 November 2011

**COURSE DIRECTOR:**

**Malcolm Thomas – Consulting Engineer** Lead author of HTM 03-01 (2007): Ventilation in Healthcare Premises; Technical author HBN 4; Supplement 1 (2005); Isolation facilities in an acute setting; Appointed 'Subject matter expert (Ventilation)' for DH estates and facilities.

**COURSE OUTLINE**

This course is arranged by the University of Leeds in conjunction with the NHS. It will examine the specific requirements for the provision of ventilation in Healthcare Premises and explain the thinking behind current standards. Hospitals are full of vulnerable people. If the ventilation is inappropriate or inadequate the results can be grave.

In order to provide a safe and suitable environment for patients and staff, the areas below need to be ventilated:

- Operating theatres
- Patient treatment and isolation rooms
- X-Ray and imaging suites
- Pathology laboratories
- Pharmaceutical preparation areas
- Sterile services packing rooms
- Estate workshops
- Mortuaries and post-mortem rooms

Many activities are subject to specific statutory requirements designed to control exposure to airborne hazards.

The basis of guidance on specialised ventilation for healthcare premises is **HTM03-01 (2007)**. This document has superseded HTM2025 has been extensively updated with many sections being completely rewritten. The following are some of the major changes that will be discussed:

- Revised basic design parameters
- New minimum standards for air handling units (AHU's)
- A full update of the standard theatre ventilation schemes
- Revised Ultra Clean Ventilation (UCV) design guidance
- A rewrite of the UCV acceptance test regime
- The introduction of routine testing and performance standards

**WHO WILL BENEFIT FROM THIS COURSE?**

This course will take a **holistic** look at the need for ventilation in healthcare premises and how it can best be provided. It will therefore be of particular interest to:

- Infection control personnel and team leaders
- Estates and facilities managers and other Healthcare professionals who are involved with the provision, performance or operation of specialised ventilation systems
- Operating department managers
- Capital project managers
- Consulting engineers
- Trust risk assessment managers
- Project management groups
- Equipment manufacturers
- Test and Validation specialists

In fact, anyone with an interest in the provision of ventilation for the Healthcare sector will find this course of benefit, as it will inform them of the client's specific needs.

**COURSE STRUCTURE**

The course will consist of lectures and group workshops supported by a small display of typical equipment. The course is fully residential and held over three days, equating to 19.5 hours of Continuing Professional Development (CPD). There will be a multiple choice questionnaire at the end of the course to provide proof of knowledge gained.

**COURSE PROGRAMME**

**DAY ONE – Wednesday 9 November 2011**

**Chairperson: Margaret Barrows, Theatre Manager, Methley Park Hospital**

09.00 – 09.15	Registration and coffee	
09.15 – 09.45	<b>Introduction and overview of the course</b>	Malcolm Thomas, Consultant Engineer
09.45 – 10.30	<b>Healthcare Ventilation – Key Issues</b> Questions	Malcolm Thomas
10.30 – 11.30	<b>Healthcare Acquired Infections</b> Questions	Craig Mackintosh, Clinical Scientist
11.30 – 11.45	Tea/Coffee	
11.45 – 12.45	<b>Ventilation Concepts</b> Questions	Malcolm Thomas
12.45 – 13.15	<b>Air Filtration</b> Questions	Lester Stuart, Stuart Solutions Ltd
13.15 – 13.55	Lunch	
14.00 – 14.45	<b>The Operating Department</b>	Malcolm Thomas
14.45 – 14.50	<b>Introduction to Workshop 1</b>	Margaret Barrows, Operating Department Manager, Methley Park Hospital
14.50 – 16.50	<b>Workshop 1 – The Operating Suite</b> (Tea/coffee taken during workshop)	Craig Mackintosh, Margaret Barrows, Richard Knight
16.50 – 17.50	<b>Workshop feedback session</b>	Malcolm Thomas and team
17.50 – 18.00	<b>Summary of day 1 and notices</b>	Margaret Barrows
19.30	Evening meal in dining room	

To receive an electronic registration form email us at: [cpd@engineering.leeds.ac.uk](mailto:cpd@engineering.leeds.ac.uk)

**DAY TWO – Thursday 10 November 2011**

**Chairperson: Craig Mackintosh, Clatterbridge Hospital**

08.45 – 08.50	<b>Introduction to Day 2</b>	Craig Mackintosh
08.50 – 09.30	<b>Air Handling Units – Minimum Standards</b>	Malcolm Thomas and John Middleton, HBI
09.30 – 10.00	<b>Validation &amp; Verification</b>	Malcolm Thomas Second speaker to be confirmed
10.00 – 11.00	<b>Air Quality Assessment</b> Questions	Craig Mackintosh
11.00 – 11.15	Tea/Coffee	
11.15 – 12.30	<b>Workshop 2 – Validation and Audit Exemplars of reports</b> (Tea/coffee taken during workshop)	Organiser: Richard Knight
12.30 – 13.15	<b>Workshop feedback session</b> Critique of reports	Malcolm Thomas and Team
13.15 – 13.55	Lunch	
14.00 – 16.35	<b>Introduction to Workshop 3</b> <b>Workshop 3 – Equipment Circus</b> Display of Air Flow measuring instruments Demonstration of Blower door Demonstration of Aero biology equipment Demonstration of UCV test methodology Particle counting and challenge testing HEPA filters (Tea/Coffee to be taken during workshop)	Organiser: Margaret Barrows  Alan Gilbert and Dave Stephens BSRIA Instrument Solutions TBC James Dagnall, Camfil Farr Richard Webster, Commissioning & Validation Services
16.35 – 17.05	<b>Illustration of Specialised Ventilation 1</b> <b>Interventional Imaging</b>	Dr David Kessel, Consultant Vascular Radiologist, Leeds Teaching Hospitals
17.05 – 17.55	<b>Monitoring and Control of Systems and User Interaction</b>	Richard Knight, Consultant
17.55 – 18.00	<b>Summary of day two and notices</b>	Craig Mackintosh
19.30	Evening meal in dining room	

**DAY THREE – Friday 11 November 2011**

**Chairperson: Malcolm Thomas**

09.00 – 09.05	<b>Introduction to Day 3</b>	Malcolm Thomas
09.05 – 09.50	<b>Illustration of Specialised Ventilation 2</b> <b>Pathology Laboratories, Mortuaries and Post Mortem Suites</b>	Iain Banks, Consultant (Rt'd)
10.00 – 10.45	<b>Illustration of Specialised Ventilation 3</b> <b>Decontamination, HSDU's and Endoscopy</b>	Speaker to be confirmed
10.45 – 11.00	Tea/Coffee	
11.00 – 12.00	<b>Illustration of Specialised Ventilation 4</b> <b>Patient Isolation Facilities</b> (HBN 4: Supplement 1 and Associated Research) Questions	Malcolm Thomas
12.00 – 12.10	<b>Introduction to the multi choice question exam</b>	
12.10 – 13.00	<b>MCQ Exam</b>	
13.00 – 13.45	Lunch	
13.45 – 14.30	<b>MCQ answers and review of exam paper</b>	Team
14.30 – 15.15	<b>Recent and current research</b>	Speaker to be confirmed
15.15 – 15.45	<b>Hot topics and course summary</b>	Malcolm Thomas
15.45	<b>Close of course and issue of CPD certificates</b>	
	Tea/Coffee	

Please note that, although the organisers remain dedicated to the programme specified, they reserve the right to vary the programme in detail if required to do so by factors beyond their control.

The full programme can be viewed online at [www.healthcare.leeds.ac.uk/study/CPD/PTQA](http://www.healthcare.leeds.ac.uk/study/CPD/PTQA)

## VENUE

The venue for the course will be the Village Hotel, 186 Otley Road, Headingley, Leeds, LS16 5PR. The Village Hotel and Leisure Club Leeds is just a short drive from Leeds city centre and directions to the venue will be sent out with the delegate joining instructions.

## COURSE FEE AND ACCOMMODATION PACKAGE

The Specialised Ventilation in Healthcare Premises course is residential and the course fee includes refreshments, lunches, bed and breakfast accommodation and evening meals at The Village Hotel on Wednesday 9 November to the close of the course on Friday 11 November 2011.

The following course fees also include cost of tuition and comprehensive course notes:

**£1215 Wednesday 9 – Friday 11 November 2011**

**For local delegates who do not require accommodation, please contact us for a non-residential rate.**

## ADDITIONAL OPTIONS

We can also book bed and breakfast accommodation for Tuesday 8 November for an additional charge of £84, if required.

## HOW TO BOOK

Delegates can book their place via our secure online store or by completing a manual registration form. Please follow the guidance below on how to complete your booking:

### MANUAL REGISTRATIONS

1. Download a registration form from the course website (<http://www.healthcare.leeds.ac.uk/study/CPD/PTQA/SVHP/>) or contact Sophie Chopping to request a copy (E: [cpd@engineering.leeds.ac.uk](mailto:cpd@engineering.leeds.ac.uk), T: 0113 343 2494)
2. Send your completed registration form along with payment or purchase order to Sophie Chopping at the address listed.

Payment can be made by bank transfer, credit card, or by cheque made payable to the 'University of Leeds'. Please note that if you have requested an invoice, registrations received without a supporting purchase order document cannot be processed. Terms of payment are 30 days from date of invoice.

### ONLINE BOOKING

1. Log on to our Online Store at: <https://store.leeds.ac.uk/>
2. Select Conferences and Events in the left-hand navigation bar
3. Select Healthcare > Pharmaceutical CPD Courses
4. Select the course or event for which you wish to register and click on 'Book'
5. If you are a new user, please follow the instructions to register. If you already have an account log in as instructed
6. Complete the application process as directed by the booking system.

You will receive an automatic confirmation email within 24 hours of your booking.

## FOR BOOKING QUERIES AND FOR ALL OTHER ENQUIRIES

If you are experiencing problems with your booking or have any queries about the course please contact:

Sophie Chopping, CPD Course and Events Co-ordinator  
CPD Unit, Faculty of Engineering  
c/o School of Civil Engineering, Room 209  
University of Leeds  
LEEDS, LS2 9JT, UK

T: + 44 (0) 113 343 2494

F: + 44 (0) 113 343 2511

E: [cpd@engineering.leeds.ac.uk](mailto:cpd@engineering.leeds.ac.uk)

W: [www.engineering.leeds.ac.uk/short-courses/](http://www.engineering.leeds.ac.uk/short-courses/)

Potential delegates who have any special requirements should contact the above as soon as possible.

## TERMS AND CONDITIONS FOR BOOKING

Payment in full should accompany your booking. The course fee is exempt from VAT. Fees must be paid in full no later than 15 working days before the course commences. Failure to pay may result in attendance being refused.

Registrations are accepted on the understanding that the printed programme is given in good faith but may have to be re-scheduled or the speakers changed for reasons outside our control. The University of Leeds reserves the right to cancel or postpone the course, in which case fees will be refunded in full. In the event of cancellation, the University will not be held liable for delegates travel or accommodation expenses.

Delegates will receive a full refund for cancellations made within 7 days of booking, except where the booking has been made for an event commencing within the next 7 days. Where a delegate wishes to cancel a registration after this 7 day period, written cancellations received up to 15 working days before the course will be subject to an administrative charge of 20% of the total remittance. After this date the full fee is chargeable and no refunds will be made, this also applies for non-attendance but copies of the course documents will be sent. Substitutions may be made at any time.

## OTHER PHARMACEUTICAL TECHNOLOGY & QUALITY ASSURANCE (PTQA) SHORT COURSES

- **Pharmaceutical Medical Gas Testing/New HTM 02 Update**  
Monday 14 – Friday 18 November 2011
- **Aseptic Services for Managers**  
Tues 22 – Wed 23 May 2012
- **Aseptic Preparation and Dispensing of Medicines (APDM)**  
Mon 9 – Thurs 12 July 2012

### WHAT OUR PREVIOUS DELEGATES SAY

**“Well organised course covering all important issues, enabling me to know where to look and ask for relevant guidance related to specialised ventilation.”**

Pennine Acute Hospital.

**“If you only do one course on this subject make sure it's this one!! Malcolm Thomas is a first class lecturer.”**

Oxford Radcliffe NHS Hospitals Trust.

**“This course is an invaluable guide; it allows the beginning of an essential dialogue between infection control professionals and engineers.”**

Great Ormond Street Hospital.

**“Very informative with a huge knowledge base to promote discussion.”**

Camfil Ltd.

**“This course is a must for all involved in Healthcare ventilation.”**

AirisQ.