Pharmaceutical Medical Gas Testing
Monday 6 – Friday 10 February 2017
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About the course
This 5 day CPD short course will be delivered by a combination of learning methods including presentations, group discussions and practical sessions explaining the principles of pharmaceutical medical gas testing.

The course will include:
- Practical testing with a range of different equipment
- Troubleshooting and assessing detective systems
- Active assistance from experienced tutors
- Positive team building activities

There is an assessment at the end of the course comprising of a short written test and some observed practice. Assessment feedback will be provided.

Who should attend
This course will be suitable for pharmacists and other healthcare professionals with experience and responsibilities for, or an interest in, medical gas testing. It is essential for those who wish to register as QC (MGPS) under the HTM 02-01.

Learning objectives
On completion of this course, delegates will be able to:
- Demonstrate a knowledge of relevant pharmacopoeial monographs, HTM 02 and Permit to Work relating to medical gases
- Demonstrate a knowledge of health and safety relating to medical gases
- Demonstrate a knowledge of medical gases production and properties, and the application of GMP to medical gas production
- Demonstrate a knowledge of uses and clinical risks associated with medical gases
- Make critical assessment on health and safety issues such as OES, MEL and STEL
- Identify and resolve problems associated with medical gas systems
- Integrate test results of medical gas systems and take appropriate actions
- Identify and resolve any problems associated with testing equipment
- Document relevant activities and interventions

Programme

Monday 6 February 2017
09.30 Registration and coffee
10.00 Course introduction
- Objectives
- Medic gas policy and committee
Theresa Hughes
QC (MGPS) and QA Specialist (NHS) Reading
10.45 Introduction to medical gases and their uses
Tim Sizer
Regional QA Specialist NHS South West
12.15 Walk-through of key MGPS features on site
Steve Goddard
AE (MedGas) MGPS Services Ltd
12.45 Lunch
13.30 MGPS plant overview
Steve Goddard
AE (MedGas) MGPS Services Ltd
14.15 Introduction to HTM 02-01 (2006)
Key features and its application in practice
Steve Goddard
AE (MedGas) MGPS Services Ltd
14.45 Refreshment break
15.00 On-site practicals
a) VIE – explanation of how it works and issues relating to it
Steve Goddard
AE (MedGas) MGPS Services Ltd
b) Medical Air Compressor – explanation of how it works and issues relating to it
Adrian Fairbrother, QC (MGPS)
c) Manipulation – explanation of how it works and issues relating to it
Ed Doyle, QC (MGPS) Alter (Analytical and Technical) Services Ltd
16.30 Manufacture of medical gases and The role of the QOP
Peter Henrys, QP BOC Gases
17.15 Notices and end of day one
19.00 Course dinner

Tuesday 7 February 2017
09.00 Gas safety in relation to MGPS
Theresa Hughes
QC (MGPS) and QA Specialist (NHS) Reading
09.45 Aspects of MGPS engineering (Part 1): Central sources of supply and emergency reserve supplies
Steve Goddard
AE (MedGas) MGPS Services Ltd
10.30 Refreshment break
10.45 Aspects of MGPS engineering (Part 2): Distribution and monitoring systems
Steve Goddard
AE (MedGas) MGPS Services Ltd
11.30 On-site practicals
- Demonstration of AP tests
- Demonstration of pipe jointing by Midland Medical Services
12.45 Lunch
13.30 Introduction to role of QC MGPS
Theresa Hughes
QC (MGPS) and QA Specialist (NHS) Reading
14.10 Engineering tests – relevance for QC (MGPS)
Paul Jones
QC (MGPS) and Consultant (Medical Gases)
15.00 Refreshment break
15.15 Workshop sessions
a) Terminal units
Function, identity and operational problems
Andrew Sully, QC (MGPS) Cardiff and Vale NHS Trust
b) AVSU’s, LVA’s and Alarms
Operation and faults
Ed Doyle, QC (MGPS) Alter (Analytical and Technical) Services Ltd
c) Cylinder Management
Identification, storage, tracking, and connections
Paul Jones
QC (MGPS) and Consultant (Medical Gases)
17.15 End of day two

Wednesday 8 February 2017
09.00 Moisture in medical gas systems
Keith Butler, Alpha Moisture Systems
09.45 Introduction to ‘permit to work’ system
Richard Maycock, Medical Engineering Systems Limited
10.30 Workshop ‘permit to work’ system
Role-day workshop, Richard Maycock
Refreshment break to be taken at suitable times during workshop session
11.30 Introduction to pharmaceutical testing of gases
Adrian Fairbrother, QC (MGPS)
12.15 Lunch
13.00 Workshop sessions
a) Oxygen
Andrew Sully
QC (MGPS) Alter (Analytical and Technical) Services Ltd
b) Nitrous oxide / Entonox
Ed Doyle
QC (MGPS) Alter (Analytical and Technical) Services Ltd
c) Medical, surgical and dental air
Richard Sutherland
QC (MGPS) Omicron Ltd
d) Heliox
Paul Jones
QC (MGPS) and Consultant (Medical Gases)
17.30 Notices and end of day three

Thursday 9 February 2017
09.00 Calibration gases
Adrian Fairbrother, QC (MGPS)
09.30 Calibration of Instruments – demonstration
Adrian Fairbrother, QC (MGPS) and Theresa Hughes (Medical Gases)
10.00 The Basic Tool Kit
Theresa Hughes
QC (MGPS) and OA Specialist (NHS) Reading
10.30 Refreshment break
10.45 Common problems that occur with equipment
Richard Sutherland
QC (MGPS) Omicron Ltd
11.30 Measurements of particulates (Practical)
Paul Jones
QC (MGPS) and Consultant (Medical Gases)
12.15 Lunch
13.00 Problem solving workshops
a) Testing manifold
Richard Sutherland
b) Testing a compressor
Adrian Fairbrother
c) Pendant testing
Paul Jones
d) Bedhead tests
Theresa Hughes
e) Terminal unit identity
Tim Sizer
Refreshment break to be taken at suitable times during workshop sessions
17.00 End of day four

Friday 10 February 2017
09.00 Oxygen conservation
Steve Connew
E.B.M.E., Operational Manager, Colchester Hospital University NHS FT
09.45 Dealing with pressure
- new MG testers
Allister Ellis Jones
QC (MGPS) North East Wales NHS Trust
10.30 Refreshment break
10.45 Incident pit
- What can go wrong with medical gases?
Richard Sutherland
QC (MGPS) Omicron Ltd
11.45 Assessment Introduction
Tim Sizer
12.00 Assessment
Written test and observed practice
13.00 Lunch
13.45 What happens next?
Includes feedback on test and work based practice for preparation for registration
Theresa Hughes
QC (MGPS) and QA Specialist (NHS) Reading
14.15 Medical gases – A prescriber’s view and future trends
Speaker to be confirmed
15.30 Closing summary and issue of completion certificates

What our previous delegates say:

“ A must for QC (MGPS) officials”
“ A thoroughly enjoyable and interesting course with a great array of knowledgeable speakers”
“ Great course, very informative with a good mix of presentations and practicals.”
Further information

Venue
The course will be held at Midland Medical Services Ltd, Rowley Regis, West Midlands, B65 9BY on Monday, Tuesday, Wednesday and Thursday and Friday will take place at the Copthorne Hotel Merry Hill Dudley, DY5 1UR, a short distance away. Full directions to the venues will be included within the delegate joining instructions.

Course fees
The following course fees include the cost of tuition, course materials, lunches and light refreshments for the day(s) of attendance. Delegates are responsible for their own evening meals except on Monday 6 February when the course dinner is included.

£1150 Full five days

Accommodation
Bed and breakfast accommodation can be booked on behalf of delegates at the Copthorne Hotel Merry Hill Dudley, DY5 1UR and this can be added to your invoice, if required. All rooms are double for sole occupancy and have en-suite facilities. Copthorne Hotel Merry Hill Dudley is approximately 5 miles from Midland Medical Services and delegates are responsible for making their own way to the course venue Monday – Thursday.

We have negotiated the following bed and breakfast rates:
Sunday 5 February £78 per night
Monday 6 – Thursday 9 February £94 per night

Course dinner
The course dinner will be held at the Copthorne Hotel Merry Hill Faradays restaurant on Monday evening and is included in the course fee. If you would like to attend please indicate when booking.

Accessibility
Please let us know if you have any specific requirements including any access or dietary requirements in relation to this course.

How to book
Delegates can book their place via our secure online store (using debit or credit card) or by completing a manual registration form (to pay via invoice). Please follow the guidance below on how to complete your booking:

Manual registrations
1. Email cpd@healthcare.leeds.ac.uk to request a registration form or call +44 (0)113 343 2494
2. Send your completed registration form along with payment or purchase order document to the address below.

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. Fees must be paid no later than 15 working days before the course commences.

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 CPD Pharmaceutical and Healthcare 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 online booking queries and for all other enquiries please contact:

Jenna Kellett – CPD, Conference and Events Coordinator
CPD, Conference and Events Unit
Faculty of Engineering
School of Civil Engineering, G.04
University of Leeds
LEEDS, LS2 9JT, UK.

T: + 44 (0) 113 343 2494
E: cpd@healthcare.leeds.ac.uk
W: www.engineering.leeds.ac.uk/short-courses
@LeedsUniCPD

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 online 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.

If you are unable to complete your registration using the online booking system please contact the CPD, Conference and Events Unit to discuss alternative arrangements.