



Introducing Pharmig's
**Basic Microbiology Skills
Practical Training Course**
21st & 22nd September 2022

Designed so that you can attend either or both days (discounts apply)
National STEM Learning Centre – University of York

What is it?

A 2-day course designed for those who are new to pharmaceutical microbiology. The course is laboratory-based and has a strong focus on practical techniques, as well as group exercises and lectures. Attendees will have the opportunity to practice fundamental techniques. Course contents include: culture maintenance, microbial identification, environmental monitoring, aseptic technique, and data integrity for the microbiology lab.

- You will leave this course with a clear understanding of not only what happens in a microbiology lab, but why the tests are performed and how to document them correctly.
- Training in the basics will help you to:
 - Understand contamination risks to the process
 - Evaluate the effectiveness of current control measures
 - Maintain compliance with cGMP and data integrity expectations for the laboratory

Who should attend?

Attendees should have a basic grasp of microbiology theory, but only limited or no practical experience. This course is ideal for new lab technicians, graduates, apprentices, and anyone new to the microbiology laboratory environment, as well as managers, production, engineering and QA staff wanting to understand the basics of microbiology laboratory practice.

Delegates may attend just one, or both of the training days.

Delegates are welcome to submit questions in advance and during the course

Wednesday 21st September 2022

08.30-09.00 Tea/Coffee & Registration

09.00-09.15 Welcome and introduction

09.15-10.15 Good QC Laboratory Practice and Data Integrity

- The fundamentals of GMP, GQCLP and data integrity
- Why is it important?

- **GROUP EXERCISE** – Data integrity for the micro lab

10.15-11.00 Aseptic technique for sampling and testing

- What is aseptic technique and why is it important?
- Sampling and testing using good aseptic technique
- Tools and techniques
- Do's and don'ts

11.00-11.30 BREAK

11.30-12.30 Environmental monitoring

- Why perform environmental monitoring?
- Typical organisms recovered
- Methods and approaches for environmental monitoring
- Handling data and reacting to trends
- **GROUP EXERCISE**- Environmental monitoring risk assessment

12.30-13.30 LUNCH

13.30-14.15 Microbiological media - PRACTICAL

- Selective media and the organisms they support
- Incubation temperatures and growth phases
- Best practice for storage, preparation and use of media
- Quality control of microbiological media

14.15-15.00 Plate counting and plating techniques – PRACTICAL

- Methods for microbial enumeration
- Best practices for plate counting
- Establishing a pure culture

15.00-16.15 Colony Morphology - PRACTICAL

- Basic identification using colony morphology

16.15-16.30 Q&A and closing remarks

Thursday 22nd September 2022

08.30-09.00 Tea/Coffee & Registration

09.00-09.15 Welcome and introduction

09.15-09.45 Culture maintenance

- Culture collections and their use in pharmaceutical testing
- Culture maintenance – storage, resuscitation and QC
- Ready-to-use commercially available cultures
- Selecting, maintaining and using environmental isolates

09.45-10.45 Basic microbial identification

- When to ID and to what level?

- Staining techniques
- Basic biochemical tests

10.45-11.00 BREAK

11.00-11.45 **Methods used for full identification**

- Phenotypic, proteomic and genotypic methods
- Limitations of common methods
- Working with a contract testing laboratory

11.45-12.30 **GROUP EXERCISE** – Interpretation of identification results and trouble-shooting

12.30-13.30 LUNCH

13.30-14.30 **Microbial identification - PRACTICAL**

- Gram staining
- Spore staining
- Basic biochemical tests

14.30-15.30 **Microscopy tips & tricks - PRACTICAL**

- Microscopy theory and good practice
- Reading gram stains and spore stains
- Cellular morphology
- Is it objectionable?

15.30-16.15 **Pharmacopoeial methods**

- Qualification of pharmacopoeial methods
- Harmonisation of pharmacopoeial methods
- Managing pharmacopoeial updates

16.15-16.30 **Q&A and closing remarks**

*Programme subject to change due to unforeseen circumstances

FEES:

Attending 1 day

- | | | | |
|--------------|------|----------------|------|
| • Member | £595 | Non-Member | £795 |
| • NHS Member | £350 | NHS Non-Member | £450 |

Attend BOTH days and receive a 20% discount

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|--------------|-------------------------|----------------|---------------------------|
| • Member | £952 (discount applied) | Non-Member | £1,272 (discount applied) |
| • NHS Member | £600 (discount applied) | NHS Non-Member | £800 (discount applied) |

DELEGATE BOOKING FORM - Please tick which date(s) you wish to attend

Wednesday 21st September 2022

Thursday 22nd September 2022

BOTH days 21st & 22nd

Company Name & Address: _____

Contact Name (different from those attending) _____

Contact Email: _____ Tel: _____

Delegate 1

First Name: _____ Surname: _____

Job Title: _____ * Email: _____

Dietary requirements: _____

Delegate 2

First Name: _____ Surname: _____

Job Title: _____ * Email: _____

Dietary requirements: _____

***Please include your email address if you wish to continue to be contacted by Pharmig about these and future meetings**

Email or fax your completed booking form for a confirmed place:

Email: info@pharmig.org.uk Fax: to +44 (0) 1920 871 156

Cheque for £ sterling / _ euro to cover delegate fee(s) enclosed

Cheque for £ sterling / _ euro to follow

Please quote purchase order number:

Please supply invoice
F.A.O.: _____

Total of £ _____ sterling /
€ _____ euro
transferred electronically

I wish to pay by credit card
(Pharmig will contact you for details)

Note: Fees for both meetings include lunch, refreshments and links to download presentations in advance of the meetings if presentations are available.

Note: Fees do not include accommodation, which must be booked and paid for directly with your venue of choice

VENUE

National STEM Learning Centre
The University of York
Heslington
York
YO10 5DD

ACCOMMODATION

- The National Stem Learning Centre does have limited bedrooms available nearby at Franklin House
- B&B £43+vat
- Attendees need to contact direct to book available rooms – please quote Pharmig to receive the discounted rates. Tel No. 01904 328 300
- Franklin House is between Alcuin College and the STEM Centre and is used exclusively for visiting guests to the university.

A selection of additional nearby accommodation

These need to be booked directly by individuals / Rates as advertised by each with hotel

- Travelodge York Hotel (0.4 miles away from National STEM Learning Centre)
- Guy Fawkes Inn (1.5 miles away from National STEM Learning Centre)
- The Fat Badger (1.5 miles away from National STEM Learning Centre)

CANCELLATION POLICY:

- Written cancellation will be accepted up to 30 days prior to the event, and all cancellations will incur a fee. No refunds are available 15 working days before the start date and full course fees will be due for delegates who fail to attend. Substitutions may be made at any time, preferably in writing to Maxine Moorey.
- Please send to: Maxine Moorey, Pharmig, T5 The Maltings, Roydon Road, Stanstead Abbots, Hertfordshire, SG12 8HG or by email: maxine@pharmig.org.uk

HEALTH & SAFETY GUIDANCE

- Please follow relevant guidance provided by your local government and health authority, including state and [venue mandates](#).
- Adhere to government-issued travel restrictions and guidance issued by the region you will be travelling to and the region you are travelling from.
- Only attendees who are fully vaccinated or who are medically exempt should register for this event.
- Face coverings may be required.
- Social distancing may be implemented.
- Attendees should consider not attending if they have had [close contact](#) with someone who has tested positive or has had [symptoms of COVID-19](#) as defined by [GOV.UK](#) within the previous 14 days.