



**Gamlen Tableting Ltd and PharmaCourses Ltd
present**

Powder Technology for Pharmaceutical Development and Manufacturing

25, 26 & 27 September 2019

Croydon, Greater London

Overview

Powder properties have a major impact on formulation, development and manufacturing of Oral Solid Dosage forms. They also play an important role in meeting the requirements of Quality by Design for OSDs.

In this course we examine powder properties and their role in these important processes, so that attendees can understand

- The influence of drug substance properties on formulation development
- how and why particular tablet components are selected and what impact they have on powder properties and tablet behaviour
- Manufacturing method selection and the importance of powder flow
- Mechanisms of powder mixing and segregation
- Powder properties, Critical Quality and Material Attributes, and the Product Control Strategy
- Effects of blending behaviour and scale on Critical Process Parameters
- The relationship between input material properties and tablet properties

Proper integration of these elements is essential to achieve "Quality by Design" because data from each phase is used to control the next step in the development process. By achieving proper integration based on sound scientific principles based on powder technology, many development and production problems can be avoided, and formulation robustness can be improved.. The course includes case studies of tablet formulation development and a detailed step by step analysis of all elements of the tablet manufacturing process.

By the end of the course the attendees will be able to recognise key powder properties which affect process performance, and make improved judgements about how to improve processes.

PharmaCourses Ltd

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PROGRAMME

Day 1 – Morning

- Introductions. Outline of course content
- What are powders?
- Powder characterisation – Particle size, powder flow
- Specific surface area, porosity

Lunch

Day 1 – Afternoon

- Powder mixing and blend uniformity testing#
- Blend uniformity measurement
- Segregation. What is it and how to prevent it

Day 2 – Morning

- Review
- Process compatibility testing
- Electrostatics and powder behaviour
- Effect of moisture on the properties of theophylline
- Tablets and what goes into them

Lunch

Day 2 – Afternoon

- Compaction properties of powders
- Tablet manufacturing process selection
- Manufacturing Control of Tablets
- Review and workshop.

Practical sessions at Yeoman House, London SE20 7TS (Delegates will be transported from Hotel)

Day 3 – Morning

Theme - Putting the theory into practice

Review of Days 2 & 3 learning points

Impact of material properties on bulk powder behaviour

- Flow
- Bulk density
- Compressibility
- Particle size and shape

Wet Granulation and drying practical

Dry Granulation practical

Lubrication and compression practical

Practical - Direct compression products

Impact of excipient selection, grades, and processing on critical tablet quality attributes—

- Compressibility
- Friability
- Disintegration

Direct compression practical

Impact of excipient selection, grades, and processing on critical tablet quality attributes—

- Compressibility
- Friability
- Disintegration
- Lubrication

Course Speaker:

Dr Michael Gamlen

Michael is Managing Director of Gamleting Tableting Ltd. Dr Michael Gamlen has over 30 years experience of tablet development. Awarded a First Class Honours degree in Pharmacy, specialising in Pharmaceutical Engineering, he studied for a PhD at Nottingham University. He was Head of Tablet Development at the The Wellcome Foundation for 15 years, and has since worked for Vanguard Medica Ltd and as a consultant. He specialises in managing product development, formulation, tablet and process development studies.

Michael has been teaching professional tableting courses for many years and his courses are

Venues:

Days 1 & 2

Croydon Park Hotel, 7 Altyre Road Croydon Greater London CR9 5AA

Day 3 (Practical day in the lab)

Yeoman House 61-63 Croydon Road, Penge SE20 7TS

(Delegates will be accompanied from the Croydon Park Hotel to Yeoman House)

Accommodation:

Croydon Park Hotel, 7 Altyre Road Croydon Greater London CR9 5AA

Website: <http://www.croydonparkhotel.com/>

Alternatively if you wish to stay in Central London the venues are easily accessible by train from London Victoria or London Bridge

Accommodation is not included in the fees, please make your own arrangements, if you have any questions please email: info@pharma-training-courses.com



REGISTRATION DETAILS:
Powder Technology for Pharmaceutical Development and Manufacturing:
Remember to book early—numbers are limited

25, 26 & 27 September 2019—Croydon, Greater London

Early-bird fee: 3 day course £1593.00 (+ VAT £318.60 if applicable, see notes on VAT)
if booked and paid by 31 July 2019

Full Fee: 3 day course £1770.00 (+ VAT £354.00 if applicable, see notes on VAT)

VAT NOTES:

UK: Under UK law all UK-based applications are subject to VAT at the prevailing rate however most UK VAT registered companies/organisations can reclaim this tax.

EU: With effect from 1 January 2011 applications from delegates whose companies are based in EU countries will not be subject to VAT **PROVIDED THAT** valid VAT ID details are provided at the time of booking, otherwise VAT will be charged.

OTHER: With effect from 1 January 2011 applications from delegates whose companies are based outside of the UK/EU will be outside the scope of VAT, ie no VAT is charged or payable.

Reduced fees available for multiple bookings:

Contact Judy Callanan to discuss a bulk booking
Phone: ++44 20 8133 2605 Email: info@pharma-training-courses.com

Methods of Payment available:

- Cheque (**Please make payable to "PharmaCourses Ltd"**)
 Bank transfer Credit/Debit Card

Please register online at:
www.pharma-training-courses.com

Course fee includes all course material, refreshments and lunch, accommodation is not included, details of nearby hotels are available on our website.

Terms and Conditions are available on our website:

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Delegate fees: Delegate fees are inclusive of course documentation, refreshments and lunch. Payment of the registration fee must be paid within 14 days of commencement of the course. Upon receipt of payment, a proof of payment will be sent to you.

Cancellation Policy: Full refunds less a handling fee of £100 will be made for cancellations received in writing within 28 days of the commencement of the course. Refunds of 50% will be made for cancellations received in writing between 28 and 7 days prior to the commencement of the course. Regrettably no refunds will be made after 7 days prior to commencement of the course. Substitutions can be made at any time.

Liability: PharmaCourses Ltd reserves the right to change the programme, speakers, date or venue without notice or cancel the event. If cancellation occurs delegates will be notified as soon as possible and will receive full refund of fees paid. PharmaCourses Ltd will not be responsible for any airfare, accommodation or other travel costs incurred.

PharmaCourses Ltd is registered in England and Wales No. 08509096

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