



Connect in
Copenhagen or
Tune In Online

In-service training course

Powder Formulation: Design principles, Characterisation and Processes



October 27 - 29, 2027



At Hotel Phoenix Copenhagen,
in the heart of Copenhagen, Denmark



Available both in-person and online

Outcome

Through presentations, exercises and plenary discussions, participants gain a practical understanding of powder formulation: the challenges, possibilities and key formulation choices related to powder characterisation, product stability and process decisions.

Main subjects taught in the course

(see also the last pages for the detailed programme)

- Particle technology basics relevant for powder properties
- Powder characterisation and powder sampling
- Design principles for powder handling including powder flow
- Powder product formulation guidance and case stories
- Powder product stability and shelf-life evaluation
- Powder processes and the influence of formulation
- Spray drying and freeze drying
- Fluid bed drying, coating and agglomeration
- Powder blending and segregation issues
- Powder milling and air classification

Target group

The course addresses technicians, formulators and process engineers working in the chemical, pharmaceutical, biotech and food industries with manufacture or development of powder products.

Form

The course runs for three consecutive days with alternating presentations, exercises and plenary discussions. The course is held in English.

Social event

On the afternoon of the first day the participants are invited to dinner in central Copenhagen.





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Teachers



Søren Vinter Søgaard,
M.Sc. (Pharm.), Ph.D.

Pharmaceutical formulation specialist. Expertise in flowability, segregation and compaction properties. Teaching experience from the School of Pharmaceutical Sciences, University of Copenhagen.



Peter Dybdahl Hede,
M.Sc. (Chem. Eng.), Ph.D.

Specialist in industrial particle technology and powder product formulation. Teaching experience from DTU and industry courses. Provides in-house seminars and powder technology consultancy

Industry guest speakers from:



**HOSOKAWA
ALPINE**



**HOSOKAWA
MICRON LTD.**

Why participants value the course

- A strong balance between theory, practical examples and exercises
- Cross-industry learning relevant for food, biotech, pharma and chemical products
- Useful networking with other specialists and industry contacts
- Applicable methods participants can use in their daily work

“ *Very interesting course ... highly recommended.*

— **Noelle Zernicke, Döhler**

“ *I immediately started using methods in my daily work!*

— **Patrizia Zanon, Dr. Schär AG**

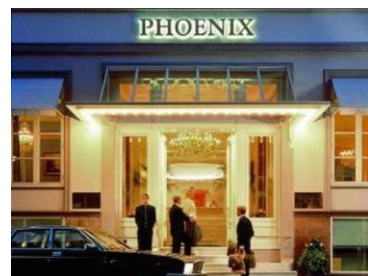
Venue

Hotel Phoenix Copenhagen is a 4-star hotel in central Copenhagen near Amalienborg Palace, Nyhavn and Kongens Nytorv.

Address: Bredgade 37, DK-1260 Copenhagen K

Hotel: +45 33 95 95 00

Booking: bookphoenix@arp-hansen.dk



Registration and practical information

- Physical presence in Copenhagen + online available
- Course language: English
- Hotel accommodation can be arranged separately
- Availability & registration: seydlitz.dk/courses
- On-site participation: EUR 2,485 per person + VAT (VAT is reclaimable)
- Online participation: EUR 2,185 per person
- Questions: info@seydlitz.dk | +45 44 10 87 00





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Detailed programme

(Allowing Some Flexibility Based on Participants' Interests and Preferences)

All times are in
Copenhagen local
time (CET/CEST)

Day 1

Time	Subject
10.00 - 10.15	Course introduction
10.15 - 11.00	Particle size and particle shape - introduction
11.00 - 12.00	Particle size measurement and particle characterisation methods
12.00 - 13.00	Lunch
13.00 - 13.30	Influence of particle size and shape on powder product properties
13.30 - 15.45	Characterisation of powder flow properties
15.45 - 16.30	Design of equipment for powder handling
18.00 - 21.30	Course dinner in central Copenhagen

Day 2

Time	Subject
9.00 - 10.30	Drying and granulation equipment (presented by Hosokawa Micron)
10.30 - 12.00	Powder milling, air classification, compaction and containment - industrial perspectives (presented by Hosokawa Alpine)
12.00 - 13.00	Lunch
13.00 - 13.45	Moisture in air - introduction to drying processes
13.45 - 15.30	Powder sampling - theory and practice; particle blending and segregation issues
15.30 - 17.00	Formulation and process development of tablets for the pharmaceutical industry





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Detailed programme - continued

(Allowing Some Flexibility Based on Participants' Interests and Preferences)



Day 3

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Time	Subject
9.00 - 10.30	Introduction to granulation processes; coating and agglomeration - influence on product properties
10.30 - 12.00	Introduction to formulation, stability and powder product shelf life. How can different industries learn from each other?
12.00 - 13.00	Lunch
13.00 - 14.15	Near-Infrared Spectroscopy as Process Analytical Technology for Powder Unit Operations (presented by Sentronic)
14.15 - 14.45	Equipment and processes for powder blending
14.45 - 15.30	Discussion: common problems in powder formulation development. When things are not as they should be...
15.30 - 16.00	Plenary case: How can we rethink an existing powder platform? Group case: instability of a food product component - how to overcome a challenging stability issue
16.00	Final remarks and course evaluation



Ready to join us in Copenhagen?



For registration and updates, please visit

www.seydlitz.dk/courses or contact: info@seydlitz.dk

“

The Powder Formulation course gave me an overall introduction to powder formulation – challenges and technologies. The instructors were excellent at understanding individual situations and areas of work

Sussi Jeppesen, Novo Nordisk A/S



Programme, registration and updates:

www.seydlitz.dk/courses