



In-service training course

Powder Formulation: Design principles, Characterisation and Processes

October 22 - 24, 2025

At Hotel Phoenix Copenhagen
in the Heart of Copenhagen, Denmark

**Possibility to
join online**

Outcome

Through presentations, exercises and plenum discussions participants will acquire solid knowledge of powder formulation - i.e. what are the challenges and possibilities and what you as formulator should be aware of regarding powder characterisation and process decisions.



Main subjects taught in the course

(see also last pages of flyer for the detailed program)

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



Target group

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



Form

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

Social event

On the afternoon of the first day the participants are invited to dinner at a nearby restaurant in the heart of Copenhagen.



Registration and further information: Please see the next pages

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Teachers

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



- Pharmaceutical formulation specialist
- Speciality in flow-ability, segregation and compaction properties
- Teaching experience from School of Pharmaceutical Sciences, University of Copenhagen

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



- Industrial particle technology and powder product formulation specialist
- Teaching experience from The Danish Society of Engineers, Technical University of Denmark and numerous training courses in powder technology
- Co-founder of seydlitz.dk. Provides in-house seminars and consultancy in powder technology



HOSOKAWA ALPINE

(Guest speakers)



**HOSOKAWA
MICRON B.V.**



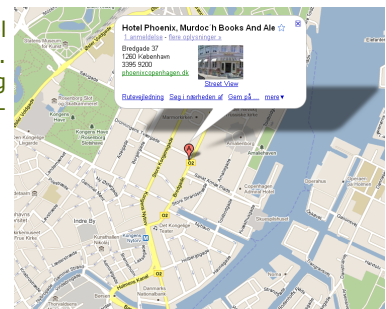
Venue



Hotel Phoenix Copenhagen is a 4-star deluxe hotel housed in one of Copenhagen's historic buildings. Situated in central Copenhagen, near Amalienborg Palace, just a few metres' walk from Nyhavn, Kongens Nytorv, Strøget and other sights.

Address: **Bredgade 37, DK-1260 Copenhagen K, Denmark**

Telephone: **+45 33 95 95 00**
Booking & service: **bookphoenix@arp-hansen.dk**



Fee

The course fee is payable in advance and includes course materials in PDF, pocket calculator, coffee & refreshments, lunch all three days and dinner on the first evening.

Physical presence: Per person EUR 2375,- plus VAT. VAT is reclaimable.

Online Presence: Per person EUR 2085,- (No VAT is charged)

Overnight stay at the delegates own expense can be arranged at the course venue or elsewhere nearby. Please contact Hotel Phoenix Copenhagen at **+45 33 95 95 00** or **bookphoenix@arp-hansen.dk**. Please mention the Powder Formulation course by Seydlitz to get a discount.

Kindly note that Copenhagen is a very popular destination and that Copenhagen hotels may be fully booked well in advance.

Registration

Binding registration at **www.seydlitz.dk** under "**Courses**" no later than **15th of September 2025**. In case of any questions please contact **Info@seydlitz.dk** or phone **+45 44 10 87 00**.

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Course contents



Day 1:	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 - 13.45	Influence of particle size and shape on different powder product properties
13.45 - 14.45	Characterisation of powder flow properties
14.45 - 16.30	Design of equipment for powder handling
18.00 - 21.30	Course dinner in Central Copenhagen

Day 2:	Subject
9.00 – 10.30	Introduction to powder formulation, stability and powder product shelf life How can different industries learn from each other?
10.30 – 12.00	Powders and tableting, Process Analytical Technology - presented by
12.00 – 13.00	Lunch
13.00 – 14.00	Moisture in air - introduction to drying processes
14.00 – 15.30	Drying and granulation equipment - presented by
15.30 – 17.00	Powder milling, air classification, compaction & containment - presented by



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Course contents - continued

**CEST
time zone**

Day 3:	Subject
9.00 - 11.00	Formulation and process development of tablets for the pharmaceutical industry
11.00 - 12.00	Powder sampling - theory and practice, Particle blending and segregation issues,
12.00 - 13.00	Lunch
13.00 - 13.30	Equipment and processes for powder blending
13.30 - 14.30	Introduction to granulation processes; coating and agglomeration - influence on product properties
14.30 - 15.00	Discussion: Common problems in powder formulation development: When things are not as they should be... How can we help each other? Discussion in plenum of case examples and specific formulation problems raised by the course participants.
15.00 - 16.00	Plenum case: How can we rethink an existing powder platform? Group case : Instability of food product component: How to overcome a challenging stability issue
16.00	Final remarks, Course evaluation

