

In-service training course

Powder Formulation:

Design principles, Characterisation and Processes October 27 - 29, 2021

Online course

Now as online course

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 online course runs for three consecutive days with alternating presentations, exercises and plenum discussions. All course material is available for download in advance of the course.

The course is held online via an online conference tool in real-time allowing questions and discussions to be facilitated in real-time.

There will be sufficient amount of breaks and time to ask questions in between the different sessions.

The course is held in English.









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Teachers

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



- Pharmaceutical Formulation Scientist
- 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.



- Vice President R&D, previously Head of R&D in the biotech, ingredient and health & nutrition industry
- Teaching experience from The Danish Society of Engineers, Technical University of Denmark and numerous service training courses in particle technology
- Co-founder of seydlitz.dk. Provides inhouse seminars and consultancy in powder technology

(Guest speakers)







Fee

The course fee is payable in advance either via direct deposit (details included in the invoice) or via credit card payment available upon online registration at our homepage.

The course fee includes all course presentations, calculation exercises and solutions, selected scientific papers as well as course diploma (all in PDF format).

All course material is available for download well in advance of the course.

Per delegate EUR 1975,- plus VAT. VAT is reclaimable.

SEYDLITZUNITED CONSULTANTS

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Registration

Binding registration at **www.seydlitz.dk** under **"Courses"** no later than 1st of October 2021. In case of any questions please contact **Info@seydlitz.dk** or phone **+45 29 49 30 40**.

The course may be subject to cancellation in case of too few participants

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Course contents

Day 1:	Subject CEST time zone	
10.00 - 10.15	Course introduction	
10.15 - 11.00	Particle size and particle shape, Particle size measurement - principles and equipment	
12.00 - 13.00	Lunch break	
13.00 - 13.30	Influence of particle size and shape on different powder product properties	
13.30 - 14.45	Characterisation of powder flow properties	
14.45 - 16.00	Design of equipment for powder handling	

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 break Focused pharma engineering		
13.00 – 14.00	Moisture in air - introduction to drying processes		
14.00 – 16.00	Drying processes and drying process equipment - presented by HOSOKAWA MICRON B.W.		

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Course contents - continued

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

Please see all of our courses at: www.seydlitz.dk/courses