

# OSD Academy

## Granulation – from powder to tablet

Come join us for our OSD Academy seminar “**Granulation – from powder to tablet**”.

With a focus on granulation, this exclusive workshop will cover various topics related to high shear granulation, fluid bed drying, and fluid bed granulation in a combination of theory and practice to further deepen your know-how and to allow you to apply new insights to your everyday business.

**PARTICIPATION FEE:** € 1.450 (excl. VAT), 10 % reduction for participants from a previous course and for groups of more than 3 participants (includes lunches and beverages during the seminar and dinner on the first and second day, transfers, and program). As soon as we receive your registration form, we will review your registration and email further instructions, such as banking details and more detailed information on the seminar.

**REGISTRATION DEADLINE:** May 26, 2025.

**CANCELLATION POLICY:** For written cancellations received up to 2 weeks prior to the start of the seminar, 20 % of the registration fees are due. For cancellations received up to 1 week prior to the seminar date, 50 % of the registration fees are due. For cancellations received within 1 week prior to the seminar date, 100 % of the registration fees are due. In the case of a non-appearance at the event without prior notification, the full course fees will be invoiced. A substitute participant is always welcome at no extra charge. Should it be necessary to cancel the seminar from our side, a full refund of the seminar fee will be granted.

### TERMS OF PAYMENT

Payable in full within 10 days from date of invoice.

### WHAT YOU WILL LEARN:

- A deep understanding of different granulation methods and the strengths and limitations of each
- How to select the right process
- The physics of granulation, such as thermodynamics and fluid dynamics
- Learn about critical process parameters, critical product attributes and their impact
- How to trouble-shoot while developing your own granules and tablets
- How the quality of granules effects the quality of the tablets

### ACCOMODATION: Hotel Stadt Lörrach

We recommend booking a room at the Hotel Stadt Lörrach for all seminar participants., approximately **130 EUR** per room per night, incl. breakfast. The hotel with its 178 modern rooms and suites is located just a minute's walk from Lörrach's main train station. Transport from the hotel to the seminar venue and back is organized.



# INVITATION.

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Tuesday, June 3, 2025

- 08:45–09:00 AM REGISTRATION
- 09:00–09:30 AM WELCOME & INTRODUCTION TO PHARMA SERVICES
- 09:30–10:30 AM BASICS OF GRANULATION TECHNOLOGY AND PROCESS SELECTION  
Basics of the function of the fluid bed and high-shear mixer.  
Comparisons between fluid bed and high-shear mixer granulation.  
Advantages and disadvantages of both methods and how to select the right process.
- 10:30–10:45 AM COFFEE BREAK
- 11:00–12:00 AM MEGABATCH OR CONTINUOUS MANUFACTURING? BEST FITS TO YOUR NEEDS.  
Introduction to the Syntegon continuous manufacturing platform, its benefits and an overview of its development. Aspects from design, engineering, automation, quality and production as well as data from trials will be discussed..
- 12:00 AM – 01:00 PM LUNCH BREAK
- 01:00–02:00 PM COMPRESSION – BASICS OF TABLETING  
Influence of material attributes and process parameters on the compression process and resulting tablet quality.
- 02:00–04:30 PM PRACTICAL INTRODUCTION INTO GRANULATION PROCESSES
- 04:30 PM TRANSFER
- 06:30 PM EVENING EVENT

Wednesday, June 4, 2025

- 09:00–10:00 AM PROCESS PARAMETERS OF HIGH-SHEAR AND FLUID BED GRANULATORS SITE  
Parameters influencing the granulation process and how to use them for process control.
- 10:00–10:15 AM COFFEE BREAK
- 10:15–11:00 AM WHY SIZE REDUCTION IS CRITICAL TO THE CONSISTENCY OF THE TABLETING PROCESS
- 11:00–12:00 AM EXCIPIENTS FOR OSD  
Overview of commonly used excipients, such as fillers, binders, disintegrants, solubilizers.
- 12:00 AM – 01:00 PM LUNCH BREAK
- 01:00–05:00 PM HANDS-ON WORKSHOP FOR DIFFERENT GRANULATION PROCESSES  
All participants will work in small groups on both projects: fluid-bed granulation and high-shear mixer granulation.
- 05:00 PM TRANSFER
- 07:00 PM EVENING EVENT

Thursday, June 5, 2025

- 09:00–09:45 AM PHYSICAL UNDERSTANDING OF GRANULATION – BASICS FOR SCALE-UP  
Parameters used for a successful scale-up and how they are determined.
- 09:45–10:00 AM COFFEE BREAK
- 10:00–11:00 AM TROUBLESHOOTING OF GRANULATION PROCESSES  
Common challenges and mitigation techniques during fluid bed and high-shear granulation from lab to commercial scale.
- 11:00–12:00 AM INNOVATIONS IN ORAL SOLID DOSAGE (OSD) DEVELOPMENT  
Introduction into automatized process development, continuous manufacturing, and data driven services.
- 12:00 AM – 01:00 PM LUNCH BREAK
- 01:00–01:45 PM OPEN SESSION AND Q&A  
Participants are asked to send questions and topics upfront to be prepared by Syntegon and discussed in a broader audience. Ranges from troubleshooting, process optimization, scale-up, or galenic topics.
- 01:45–02:00 PM WRAP-UP AND END OF SEMINAR

# AGENDA