

OSD Academy

Granulation – from powder to tablet

Tuesday, June 20, 2023

- 08:45–09:00 AM **REGISTRATION**
- 09:00–09:30 AM **WELCOME & INTRODUCTION TO PHARMA SERVICE**
- 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**
The participants will be divided into groups and will be introduced into different granulation processes, the analysis and the compression of the granules.
- 04:30 PM **TRANSFER**
- 06:30 PM **EVENING EVENT**

Wednesday, June 21, 2023

- 09:00–10:00 AM **PROCESS PARAMETERS OF HIGH-SHEAR AND FLUID BED GRANULATORS**
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 **PHYSICAL UNDERSTANDING OF GRANULATION – BASIS FOR SCALE-UP**
Parameters used for a successful scale-up and how are they determined.
- 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 22, 2023

- 09:00–10:00 AM **TROUBLESHOOTING OF GRANULATION PROCESSES**
Common challenges and mitigation techniques during fluid bed and high-shear granulation from lab to commercial scale.
- 10:00–10:15 AM **COFFEE BREAK**
- 10:15–11:15 AM **INNOVATIONS IN ORAL SOLID DOSAGE (OSD) DEVELOPMENT**
Introduction into automatized process development, continuous manufacturing and data driven services.
- 11:15–12:00 AM **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.
- 12:00 AM – 01:00 PM **LUNCH BREAK**
- 01:00–01:15 PM **WRAP-UP AND END OF SEMINAR**

AGENDA.