

>> Coperion know-how at your disposal:

Online Seminars on Process Technology in 2021 for Chemical and Reaction Technology

COURSE OBJECTIVES

- To provide process engineers and operation supervisors with an understanding of the fundamental and practical aspects of the design and operating mode of a ZSK twin screw compounder
- To update knowledge in the field of processing engineering plastics

SESSION 1

DATES AND LOCATION

upon request

split in 3 parts with 3 hours each8-11 am (Central European Time)

MS Teams via Coperion GmbH, Stuttgart, Germany Participants get access to this Coperion training channel via MS Teams

LANGUAGE

All courses will be held in English if there is no other predefinition.



SEMINAR FEE

EUR 1.330,- per trainee. This price will be charged plus VAT.

ATTENDEES WILL RECEIVE

- Coloured Coperion textbook PROCESS TRAINING in Chemical and Reaction Technology in PDF
- Certificate upon completion of the course (PDF)

INDIVIDUAL SEMINARS

In addition to the regularly scheduled classes, courses can be held.

Training contents can be modified according to your objectives. Having discussed your needs we work out a customized training schedule and pricing for you.

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>> Content. Seminar on Process Technology for Chemical and Reaction Technology

DAY 1

- Basic process knowledge in the field of compounding engineering plastics
- Self cleaning screw profile of twin screw extruders
- Development of the ZSK twin screw extruders
- Screw elements: layout and definitions
- Working principle of screw elements
- Compounding plants and comparison of different extruder systems

Process sections inside of the ZSK

- Feeding
- Melting
- Degassing
- Metering
- Screw tip design

DAY 2

- Discharge section
- Screen changer
- Pelletizer
- Interlocks
 - Interlock sequences
 - Start up sequences
- Process variables
 - Specific energy influence of rate and screw speed
 - Motor load (torque)
 - Temperature profile: influence of the various operating parameters
- Materials for different applications

- General layouts for different polymers
 - Feeding
 - Melting
 - Degassing
 - Metering
 - Screw tip design
 - Premix
 - Color-matching
 - Split-feed

DAY 3

- Latest Coperion developments and insights in the field of
 - Compounding Engineering Plastics
 - Masterbatch Production
 - Powder coating Compounding
- Scale-up
 - Methods to design a compounding line
 - Product properties
 - Interlock sequence
 - Specific energy
 - Melt temperature
- Trouble shooting
 - Operating windowAnalysis of rate limitations
 - Torque limitations
 - Melting limitations
 - Vent limitations
 - Feed limitations
 - Pressure limitations

CONTACT INFORMATION

For more information about Coperion's seminars please contact:

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