

By-product handling

What you will learn

During the milling process, about 70 to 75 % of the grain becomes flour, and the remaining 25 to 30 % is available as wheat by-products currently largely destined for livestock consumption. However, pelleting of these by-products (e.g., bran, husks) is advisable for various reasons, especially for storage and transport. Due to its higher bulk density, less storage and transport space will be required, and profitability therefore significantly increased. On the other hand, these by-products contain beneficial compounds for human health, which could be recovered and recycled into the food chain. This course will provide essential details to understand the process technology and machine requirements required for key applications in feed & food.

Required skill level

This course is well-suited for Plant and Production Managers; Head Millers; Product development technologists; Professionals with commercial or technical background in grain or feed milling related industries.



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Next course dates and more information Scan the QR code or go to <u>buhlergroup.com/academy</u>

Price

CHF 1'900.00 per person / 1 week \rightarrow Courses and costs 2021

What is included

- Unlimited access to Wi-Fi and Internet
- Invitation letter for visa application
- Printed training documents
- One social event and dinner





By-product handling Detailed program

	Wednesday	 Mechanical starch damage Starch structure, mechanical starch damage and its influence on water absorption and baking yield 		
pective of the baker.	Thursday	 Practical milling in the School mill Settings applying the "perfect break release" with sample taking and analysis Comparison bare dressing and poor dressing Set-up of purifier in the school mill Impact of detachers 		
, light peeling, pearling)		ExtrusionTheory about extrusion and application in different products		
		Visit of extrusion laboratory		
opinion	Friday	 Bakery Innovation Center – Bakery basics Regional breads in a global world, a hands-on exercise in the bakery Different recipes / processes / products Practical approach with hands on exercises Different customer preferences in a multi-cultural world Application of Flour correctors to improve quality of bakery products 		
e d their influence on flow sheet design		 Value added products Premix, FHT, Air classification etc. KPI (Key performance indicators) Evaluation of a flour mill 		
		Course feedbackEnd of course ca. 16:30		

Red thread in milling

· Profound explanation of requirements from the perspe

Cleaning section and conditioning of wheat

Special flow sheet technology

Welcome at the Milling Academy

 Formalities and administrative matters Bühler factory visit, including research centers

- · Sortex in the cleaning section
- Various surface treatment options (scouring, peeling,
- · Flow sheets around the world
- · Conditioning of wheat

Short presentation of milling machines

- · Roller mill and plansifter
- Purifier, bran finisher, detacher

Customer service

Practical

· Our products, our philosophy, organization and your o

Flow sheet technology

- · Use of purifiers, bran finishers, detachers
- · Discussion of real flow sheets from around the globe
- Differences in wheat and target finished products and

Social event in the evening

Wednesday

Monday

Tuesday

Operation of the cleaning system

SOLIX, and power consumption reduction in general

· Measures to reduce operating power in the cleaning and mill

Perfect break release

· Optimized break handling as key to best semolina quality

08.00 - 09.30 / 10.00 - 12.00

Working hours

13.15 - 15.00 / 15.15 - 17.00



We reserve the right to adjust the schedule for organizational reasons.



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