



**PITA & Papierzentrum Gernsbach present. . . .**  
**“Fundamentals of Papermaking”**  
**28<sup>th</sup> to 30<sup>th</sup> April 2020 / Venue TBA**

This 2½ day course provides a fast track introduction to papermaking (limited to operations between ‘Mixing Chest’ & ‘Reel up’). The intention is to raise the knowledge of process, technician & support staff to an intermediate level or shared understanding regarding modern Paper Machine Operations.

In addition to being valid as a standalone course, the course contents also provide an introduction to the ‘Operator Development Programme’ (ODP).

Papierzentrum in Gernsbach also provides a bridge between the UK and German training and education.



## Day One:

- **Introduction to the Industry:** Overview of industry / figures of national & international productions / raw material & resource development / Changes in the raw materials, energy & production in the paper / Paper technology in the future
- **Stock Approach Flow:** Feed flow in the Stock Approach System / Stock & water loops / Machinery & build up / Impact on quality & runability
- **Head Box:** Distribution systems / Design & types / Efflux ratio / Turbulence generation / The ‘Slice’ Impact on paper machine runability & product quality
- **Chemical Additives in the Wet End:** Chemicals to enhance produce quality / Chemicals for runability improvement / Introduction into fibre & wet end chemistry

## Day Two:

- **Forming Section:** Single & multi-layer designs / Sheet forming fundamentals / Dewatering elements & vacuum system / Retention / Impact on product quality & runability / Fabric considerations
- **The Press Section:** Press section designs / Fundamentals of pressing / Press nips: grooved, blind drilled, shoe press / Press section impact on product quality & runability / Press felts & conditioning
- **The Dryer Section:** Fundamental of paper & board drying / Build up of dryer groups / Drying cylinder / Steam & condensate Systems / Pocket ventilation / Dew point & 0-level / Dryer section operations / The Dryer fabric & cleaning
- **Finishing & Reel Up Systems:** Online-calendaring fundamentals / Reel Up Systems

## Day Three:

- **Introduction to Process Control:** Computer aided process simulation / “From mixing chest to reel-up” / Start-up of the paper machine / Working with closed control loops / Adjust various machine parameters to improve product quality

**Only £750 (plus VAT) per person, including full course notes, refreshments  
& six months complimentary membership of PITA**

**For further details or to book your place on this course, contact Helen in the  
PITA Office**



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