

# Process Management

## Process control techniques in spinning

### Day 1

- Raw material management, fiber testing and interpretation
- Understanding the definition of the degree of cleaning and cleaning efficiency
- Blowroom setting based on trash analysis
- Air measurement and adjustment and its role in achieving the required degree of cleaning
- Understanding the Stop/Go ratio in blowroom and its importance in quality consistency

### Day 2

- Carding machine setting based on waste analysis
- Sliver testing and test report interpretation – doing neps report analysis
- Trouble shooting – nep removal efficiency/fiber damage
- Auto levelling – adjusting LAP, levelling intensity, slow speed adaption
- Technology and working principle of RQM
- Understanding of quality parameters like – A%; CV%; spectrogram and thick places, quality report interpretation (CV%/spectrogram analysis)

### Day 3

- Pre-comber draft distribution
- Deciding the right lap weight based on fiber length and fiber fineness
- Factor influencing lap quality and producing optimum lap for better combing
- Selecting the setting on comber – feed amount/feed type/noil%
- Understanding and optimizing – noil%, analysis of noil, combing efficiency

### Day 4

- Choosing the right roving hank/twist
- Understanding the role of the bobbin speed curve on roving stretch
- Choosing the right ring traveller weight
- Understanding cop build-up/Speed curve
- Yarn quality – IPI/Strength/Hairiness; action required based on interpretation of the quality report

### Day 5

- Humidification/Rieter recommendation and its impact on machine performance (temperature/relative humidity and air changes)
- Selection of the right accessories (sliver can/bobbins/spinning tubes) and their impact on the mill performance
- Material handling – understanding of FIFO and the need for channelization in quality consistency

#### Duration:

- 5 days

#### Target audience:

- Supervisors and above – production, quality, maintenance, utility

#### Number of participants:

- Up to a maximum of 10 – 15

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