Customer training
Machine training, electrical training, process management, mill management

RIETER

Customer Training

Learning with textile technology experts boosting profitability

Increasing know-how
and expertise

Wide Range of Customer Trainings

Continuous learning pays rich dividends – Rieter offers training on several topics being conducted by professional Rieter trainers who bring along decades of experience in the textile industry with a very strong passion to impart learning.

Customers can choose trainings on-site in their spinning mill, called INmill trainings, or trainings in Rieter facilities in Europe or China, called INclass trainings. For both options, there are four categories of trainings: Machine training, electrical training, process management and mill management. Last but not least, Rieter offers mass-customized trainings as per customer needs.

Training modules	INmill	INclass
Machine training		
Blowroom	■	■
Carding	■	■
Draw frame	■	■
OMEGAlap and comber	■	■
Roving frame	■	■
Ring and compact spinning	■	■
Semi-automatic rotor spinning	■	■
Automatic rotor spinning	■	■
Air-jet spinning	■	■
Autoconer	■	■
Autoconer Preci FX	■	■
Electrical training		
Electrical training general	■	■
Electrical Autoconer	■	■
Process management		
Fiber preparation	■	■
Spinning preparation	■	■
Roving spinning	■	■
Rotor spinning	■	■
Air-jet spinning	■	■
Process control techniques in spinning	■	■
Mill management		
Mill economics	■	■
Mill management summit		■

Training Methodology

INmill training

At customer's spinning mill
- 50% classroom training
- 50% machine training

INclass training

At a Rieter training center
- 50% classroom training
- 50% machine training

Over 50% of the time on the machine enables customers to address their current performance issues leading to immediate results.

INclass training locations

Machine Training
Blowroom

Day 1

- **Introduction**
- Technological purpose and functioning of blowroom machines
- Understanding the function and machine details of UNIfloc

Day 2

- Practical machine adjustment of UNIfloc
- Importance of air measurement and STOP-GO ratio in blowroom
- Understanding the function and machine details of UNIclean
- Understanding of VARIOset and its adjustment
- Practical machine adjustment and air measurement on UNIclean
- UNImix function and basic adjustment

Day 3

- Practical machine adjustment and air measurement on UNImix
- UNIstore – machine details, air adjustment, and understanding of machine parameters
- Quality check – nep count/SFC
- Waste analysis

Duration:
- 3 days for standard blowroom
  + one additional day in case of UNIblend installation
  + one additional day for UNIcontrol in case of more than 2 blowroom lines

Target audience:
- Mechanical and electrical technicians, foreman, fitters
- Supervisors, engineers from production, quality, maintenance and utility departments

Number of participants:
- Up to a maximum of 10

■ INmill ✓ ■ INclass ✓

+ 1

- **In case UNIblend is available**
- Working principle of UNIblend (blending principle)
- Calibration and adjusting dosing
- Adjusting the monitoring unit
- Process optimization in UNIblend
- Air adjustment

+ 1

- **For UNIcontrol – for blowroom line with more flexibility**
- Understanding blowroom layout (lines)
- Understanding and reading electrical schema
- Display parameters from UNIcontrol

Machine Training
Carding

Day 1

- **Introduction –** basic function of carding
- Technological purpose and functioning of the machine
- Technical terms related to carding machine
- Basic calculations – production/batt weight/ draft/NRE
- Parameters influencing sliver quality

Day 2

- Machine setting influencing sliver quality and waste generation in card
- Mechanical and technological adjustments, drives, change points, gearing plans and pneumatic plans
- Important components and their setting – IGS classic/IGS top
- Understanding the function of the autoleveller and its calibration method

Day 3

- Wire maintenance on the card machine
- Coiler adjustments
- Preventive maintenance and safety regulations
- Operator work practices – standard procedure for starting the machine and stopping the carding machine
- Understanding sliver quality parameters like A%, CV%
- Sliver nep report and its analysis

Duration:
- 3 days

Target audience:
- Mechanical and electrical technicians, foreman, fitters
- Supervisors, engineers from production, quality, maintenance and utility departments

Number of participants:
- Up to a maximum of 10

■ **INmill** ✓ ■ **INclass** ✓

Machine Training
Draw frame

Day 1

Introduction to draw frame
- Technology of draw frame/basic calculations – production/draft
- Sub assembly in detail – draw frame

Day 2
- Technology of autolevelling
- Calibration and adjustments autoleveller
- Auto leveling – adjusting LAP, levelling intensity, slow speed adaption
- Levelling adjustments for quality reasons
- Technology of RQM

Day 3
- Understanding of quality parameters like – A%; CV%; spectrogram and thick places
- Display parameters/maintenance and safety aspects
- Open discussion and test

Duration:
- 3 days for draw frame

Target audience:
- Mechanical and electrical technicians, foreman, fitters
- Supervisors, engineers from production, quality, maintenance and utility departments

Number of participants:
- Up to a maximum of 10

INmill ✓ INclass ✓

Rieter's Autoleveler Draw Frame RSB-D 55 for stable operation with high quality and productivity

Machine Training
OMEGAlap and comber

OMEGAlap (lap former) training topics

Day 1 **Introduction to combing** – basic textile
- Technological purpose and functioning of the machines
- Technical terms related to lap former machine
- Basic calculations – production/lap weight, gms/m / draft

Day 2
- Parameters influencing lap formation
- Doffing cycle in detail
- Mechanical and technological adjustments, drives, change points, gearing plans,
- Pneumatic circuit of the machine
- Preventive maintenance and safety regulations

Day 3
- Working principle difference between E 32/E 35/E 36
- Assembly and subassembly, important components and its setting
- Change the winding belt and it's calibration, winding pressure E 32/E 35/E 36
- Tension in calendar rolls, adjusting the drafting system
- Knowledge of clutch, maintenance, checking air gap

Comber training topics

Day 4 **Introduction and necessity of combing machine**
- Technical terms related to combing machines
- Parameters influencing combing operation
- Noil extraction theory
- Practical adjustment on the machine

Day 5
- Basic calculations – production/noil%/draft
- Programming of the machine configuration/ description of machine menu
- Preventive maintenance and safety regulations
- Understanding of gearing diagram and pneumatic panel
- Assembly and subassembly

Day 6
- Yarn count change procedure/technical formulae
- Comber ROBOlap – basic principle/settings
- General discussion and question answers
- All pending points/exam

+ 1 **Additional day in case of SERVOlap installation**
- SERVOlap layout and positioning of the machine
- Introduction and working principle of SERVOlap
- Introduction of display parameters
- Important components and its setting
- Initialization and referencing of SERVOlap

Duration:
- 6 days for OMEGAlap and comber without SERVOlap
  + one additional day in case of SERVOlap

Target audience:
- Mechanical and electrical technicians, foreman, fitters
- Supervisors, engineers from production, quality, maintenance and utility departments

Number of participants: Up to a maximum of 10

■ **INmill** ✓ ■ **INclass** ✓

Machine Training
Roving frame

Day 1

- **Introduction to roving machine**
- Technological purpose and functioning of the machine
- Functioning/working principle of the individual working parts

Day 2

- Mechanical and technological adjustments, drives, change points, gearing plan
- Explanation of the pneumatic, electrical and electronic systems
- Explanation of all the settings on the machine's control panel

Day 3

- Introduction to all tools supplied along with machine
- Preventive maintenance and safety regulations
- General discussion and question answers
- All pending points/test

Duration:
- 3 days

Target audience:
- Mechanical and electrical technicians, foreman, fitters
- Supervisors, engineers from production, quality, maintenance and utility departments

Number of participants:
- Up to a maximum of 10

INmill ✓ INclass ✓

Machine Training
Ring and compact spinning

Day 1
- **Introduction to ring and compact spinning machines** – basic textile (calculation of yarn count/draft/twist etc.)
- Technological purpose and functioning of the machines
- Introduction to ring spinning machine (G/K)

Day 2
- Functioning/working principle of the individual working parts
- Mechanical and technological adjustments, drives, change points, gearing plan
- Technological components (cots/aprons/ring/traveller) and its importance/maintenance schedule and service life of technological components

Day 3
- Introduction to all tools supplied along with the machine
- Explanation of the pneumatic, electrical and electronic systems

Day 4
- Programming of the machine configuration/description of machine menu's
- Preventive maintenance and safety regulations
- Yarn quality – IPI/strength/hairiness/spectrogram; action required based on interpretation of quality report

Day 5
- Yarn count change procedure/technical formula
- Do's and don'ts for operators/technical team
- General discussion and question and answers
- All pending points/test

Duration:
- 5 days

Target audience:
- Mechanical and electrical technicians, foreman, fitters
- Supervisors, engineers from production, quality, maintenance and utility departments

Number of participants:
- Up to a maximum of 10

INmill ✓ INclass ✓

Machine Training
Semi-automatic rotor spinning

Day 1
- **Introduction – basic textile** (calculation of yarn count/draft/twist/etc.)
- Technological purpose and functioning of the machine
- Introduction to rotor spinning machine

Day 2
- Functioning/working principle of the individual working parts
- Mechanical and technological adjustments, drives, change points, gearing plan
- Technological components (rotor/opening roller/ nozzle/twist segment) and their importance/ maintenance schedule and service life of technological components

Day 3
- Introduction to all tools supplied along with the machine
- Explanation of the pneumatic, electrical and electronic systems
- Understanding of yarn clearer Q 10/Q 20

Day 4
- Programming of the machine configuration/ description of machine display parameters
- Preventive maintenance and safety regulations
- Yarn quality – IPI/strength/hairiness; action required based on interpretation of the quality report

Day 5
- Yarn count change procedure/technical formula
- Do's and don'ts for operators/technical team
- General discussion and question answers
- All pending points/test

Duration:
- 5 days

Target audience:
- Mechanical and electrical technicians, foreman, fitters
- Supervisors, engineers from production, quality, maintenance and utility departments

Number of participants:
- Up to a maximum of 10

INmill ✓ INclass ✓

Machine Training
Automatic rotor spinning

Day 1
- **Introduction to rotor spinning machine**
- Technological purpose and functioning of the machine
- Preventive maintenance and safety regulations

Day 2
- Functioning/working principle of the individual working parts
- Mechanical and technological adjustments, drives, change points, gearing plan
- Technological components (rotor/opening roller/ nozzle/twist segment) and their importance/ maintenance schedule and service life of technological components

Day 3
- Introduction to all tools supplied along with the machine
- Explanation of the pneumatic, electrical and electronic systems
- Understanding of yarn clearer

Day 4
- Programming of the machine configuration/ description of the machine and robot menu
- In-depth robot training such as how to improve the performance of the robot (efficiency)
- Piecing parameters adjustment for better piecing strength and appearance

Day 5
- Yarn count change procedure/technical formula
- Do's and don'ts for operators
- General discussion and question answers
- All pending points/test

Duration:
- 5 days

Target audience:
- Mechanical and electrical technicians, foreman, fitters
- Supervisors, engineers from production, quality, maintenance and utility departments

Number of participants:
- Up to a maximum of 10

■ INmill ✓ ■ INclass ✓

Automatic rotor machine training

Machine Training
Air-jet spinning

Day 1
- **Introduction**
- Air-jet spinning machine with several videos
- Machine overview on the machine
- Review of the learning and group discussions

Day 2
- Process optimization
- Recommendations, sliver preparation and impacts, spinning variables, critical settings in spinning units, etc.
- Spin unit settings on the machine

Day 3
- **Machine settings**
- Various systems such as suction, pneumatic, tube loader, etc.
- Deep dive into Q-sensor and quality monitoring
- Review and group discussions

Day 4
- **Introduction to robots**
- In-depth robot training such as how to improve the performance of the robot (efficiency)
- Practical training on the machines specific to robots

Day 5
- Deep dive into maintenance topics
- Do's and don'ts, trouble shooting techniques, best practices, handling machine display and robot display, etc.
- Review of all topics and group discussions

Duration:
- 5 days

Target audience:
- Mechanical and electrical technicians, foreman, fitters
- Supervisors, engineers from production, quality, maintenance and utility departments

Number of participants:
- Up to a maximum of 10

■ **INmill** ✓ ■ **INclass** ✓

Air-jet machine training

Machine Training
Autoconer

Day 1
- **Introduction**
- Autoconer types, models and their functions
- Technological purpose and functioning of winding machines
- Explanation of the basic layout

Day 2
- Functioning/working principle of the individual working parts
- Mechanical and technological adjustments and explanation about sub assemblies of Autoconer
- Technological components (drum, splicer and FX products) and technological information of various parameters on winding system

Day 3
- Introduction to all tools supplied along with the machine
- Explanation of the pneumatic, electrical and electronic systems
- Understanding of parameter of machine display
- Package engineering – type of winding and package structure

Day 4
- Programming of the machine configuration/ description of machine menu
- Preventive maintenance, importance/ maintenance schedule and service life of technological components and safety regulations
- Machine performance – optimization of machine setting and action required based on interpretation of reports

Day 5
- Lot change procedure
- Do's and don'ts for operators/technical team
- General discussion and question answers
- Q&A

Duration:
- 5 days

Target audience:
- Mechanical and electrical technicians, foreman, fitters
- Supervisors, engineers from production, quality, maintenance and utility departments

Number of participants:
- Up to a maximum of 10

INmill ✓ INclass ✓

Autoconer machine training

Machine Training
Autoconer Preci FX

Day 1

- **Introduction**
- Autoconer types and models
- Precifx introduction and working principal
- Types of winding and its properties

Day 2

- Explanation of machine display menus – related with Precifx (pitch, symmetric ratio and geometry, etc.)
- Preci FX winding unit settings and check points
- Explanation of importance of Preci FX
- Various application of Preci FX and its setting optimization

Day 3

- **Package engineering**
- Type of windings and package structures in detail
- Package quality analysis
- Preventive maintenance, importance or maintenance schedule and service life of Preci FX components
- Safety regulations and do's and don'ts
- General discussion and question answers
- All pending points, test

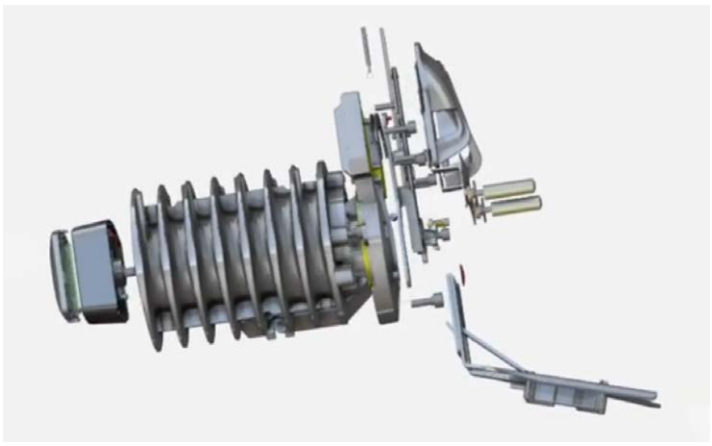
Duration:
- 3 days

Target audience:
- Mechanical and electrical technicians, foreman, fitters
- Supervisors, engineers from production, quality, maintenance and utility departments

Number of participants:
- Up to a maximum of 10

INmill ✓ INclass ✓

On the machine winding training



Electrical Training
Electrical training general

Day 1

Blowroom training
- UNIcontrol settings and explaining of the processes
- UNIfloc programming and settings
- Explanation of the electrical schematic of each blowroom machine
- Practical training and safety regulation on the machines

Day 2

Card training
- Card leveling function and settings
- Programming and explaining the test program
- Practical training and safety regulation on the machines

Day 3

Draw frame training
- Explanation of the pneumatic, electrical and electronic systems
- Leveling function and settings
- Programming of the machine and safety regulation on the machine
- Practical training

Day 4

OMEGAlap/Comber and SERVOlap training
- Explanation of the pneumatic, electrical and electronic systems
- Programming of the machine and safety regulation on the machines
- Practical training

Day 5

SPIDERweb or ESSENTIALmonitor training
- Basics of network technology
- Data analysis of the individual machines
- Troubleshooting
- Questions and answers

Duration:
- 5 days

Target audience:
- Electrical technicians, foreman, fitters
- Supervisors, engineers from the electrical or electronics department

Number of participants:
- Up to a maximum of 10

■ **INmill** ✓ ■ **INclass** ✓

Classroom training with tutor Mr. Jürg Hug

Electrical Training
Electrical Autoconer

Day 1

Introduction

- Autoconer types, models and their functions
- Explanation of the machine layout
- Explanation of the electrical basic layout
- Functioning/working principle of winding units components
- Explanation of machine display menus related with electrical
- Explanation of game boy functions

Day 2

- Software update procedures and methods
- Programming of the machine configuration
- Trouble shooting and maintenance activities
- Important of quality power supply and safety measures
- General discussion and question answers
- Questions and answers

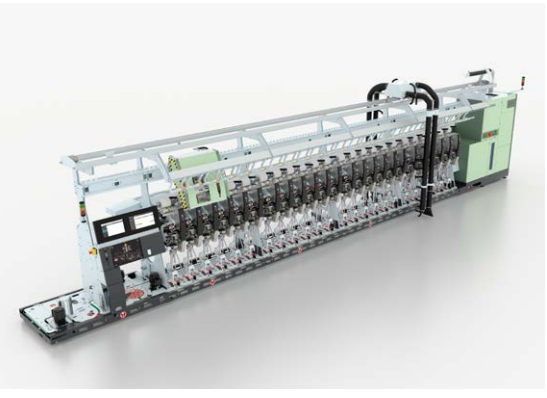
Duration:
- 2 days

Target audience:
- Electrical technicians, foreman, fitters
- Supervisor, engineers from the electrical or electronics department

Number of participants:
- Up to a maximum of 10

■ **INmill** ✓ ■ **INclass** ✓

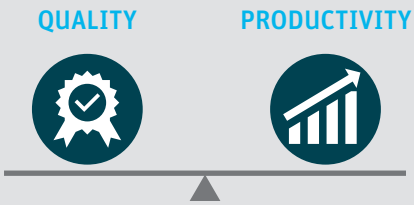
Classroom training with tutor Mr. Willen



On the machine training

Process Management
Fiber preparation

Balancing cost and quality



Customer values
- Obtain techno-economic advantage
- Balancing cost and quality requirements for better profitability
- Quick response to technology changes
- Avoidance of production losses
- Instant stability in operation
- Trouble-free operation

Day 1
- Need of opening, cleaning, blending and mixing
- Understanding the definition of degree of cleaning and cleaning efficiency
- Factors influencing the degree of cleaning and cleaning efficiency
- Air measurement and adjustment and its role in achieving required degree of cleaning
- Understanding the role of ambient climate in blowroom performance

Day 2
- Raw material management, fiber testing and its interpretation
- Bale laydown and does and don'ts for bale laydown
- Understanding what is Stop/Go ratio in blowroom and its importance in quality consistency
- Machine optimization based on waste analysis

Day 3
- Infeed material requirement for better carding performance
- Carding machine setting based on waste analysis
- Sliver testing and test report interpretation – doing neps report analysis
- Trouble shooting – nep removal efficiency/fiber damage
- Role of wire maintenance in overall carding performance

Duration:
- 3 days

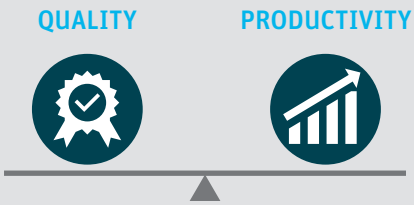
Target audience:
- Supervisors and above – production, quality, maintenance, utility

Number of participants:
- Up to a maximum of 10 – 15

■ **INmill** ✓ ■ **INclass** ✓

Process Management
Spinning preparation

Balancing cost and quality



Customer values
- Obtain techno-economic advantage
- Balancing cost and quality requirements for better profitability
- Quick response to technology changes
- Avoidance of production losses
- Instant stability in operation
- Trouble-free operation

Day 1
- Introduction to draw frame optimization
- Selecting the right sliver hank/number of drawing processes
- Choosing a draft distribution/a number of doublings in the draw frame
- Selection of technological components and machine setting
- Technology and working principle of autolevelling
- Auto levelling – adjusting LAP, levelling intensity, slow speed adaption

Day 2
- Technology and working principle of RQM
- Understanding of quality parameters like – A%; CV%; spectrogram and thick places
- Quality report interpretation (CV%/spectrogram analysis)
- Number of drawing processes/draft distribution/number of doublings in draw frame
- Roller setting/selection of components

Day 3
- Pre-comber draft distribution
- Deciding the right lap weight based on fiber length and fiber fineness
- Factors 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
- Best work practices in draw frame/combing preparation and comber

Duration:
- 3 days

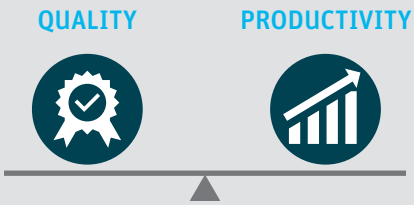
Target audience:
- Supervisors and above – production, quality, maintenance, utility

Number of participants:
- Up to a maximum of 10 – 15

■ **INmill** ✓ ■ **INclass** ✓

Process Management
Roving spinning

Balancing cost and quality



Customer values
- Obtain techno-economic advantage
- Balancing cost and quality requirements for better profitability
- Quick response to technology changes
- Avoidance of production losses
- Instant stability in operation
- Trouble-free operation

Day 1
- Choosing the right roving hank/twist
- Understanding the role of the bobbin speed curve on roving stretch
- Best work practices in roving frame
- Importance of utilization/efficiency of ring/compact spinning machine in cost management
- Factors deciding twist multiplier/draft distribution/ roller setting

Day 2
- Factors influencing end down in spinning machine
- Choosing the right ring traveller weight and profile
- Understanding cop build-up/speed curve
- Understanding of spinning geometry – spinning triangle/spinning length and spinning angle
- Technological components (cots/aprons/ring/ traveller), maintenance schedule, and service life of technological components

Day 3
- Working principle of compacting
- Yarn quality – IPI/strength/hairiness; action required based on interpretation of the quality report
- Understanding and reading quality reports, keys factors for quality consistency
- Doffing and start-up process optimization – factors affecting start-up breaks
- Humidification/Rieter recommendation and its impact on machine performance

Duration:
- 3 days

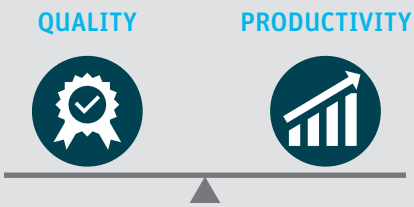
Target audience:
- Supervisors and above – production, quality, maintenance, utility

Number of participants:
- Up to a maximum of 10 – 15

■ **INmill** ✓ ■ **INclass** ✓

Process Management
Rotor spinning

Balancing cost and quality



Customer values
- Obtain techno-economic advantage
- Balancing cost and quality requirements for better profitability
- Quick response to technology changes
- Avoidance of production losses
- Instant stability in operation
- Trouble-free operation

Day 1
- Raw material management for required yarn quality
- Setting of a fiber preparation (ABC) for rotor spinning
- Choosing the number of draw frame passages, right sliver hank, and draft distribution in the draw frame for the rotor spinning process
- Best work practices

Day 2
- Selection of technological components based on raw material and yarn quality requirements
- Understanding the role of yarn piecing in rotor spinning
- Optimizing yarn piecing strength and appearance
- Frequently committed mistakes in rotor spinning

Day 3
- Understanding the role and working principle of yarn clearer
- Yarn testing – IPI, strength, hairiness, etc.,
- action required for quality improvement
- Means to improve productivity in rotor spinning with required yarn quality
- Humidification/Rieter recommendation and its impact on machine performance

Duration:
- 3 days

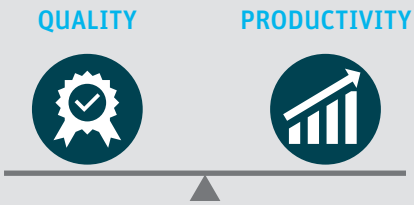
Target audience:
- Supervisors and above – production, quality, maintenance, utility

Number of participants:
- Up to a maximum of 10 – 15

■ **INmill** ✓ ■ **INclass** ✓

Process Management
Air-jet spinning

Balancing cost and quality



Customer values
- Obtain techno-economic advantage
- Balancing cost and quality requirements for better profitability
- Quick response to technology changes
- Avoidance of production losses
- Instant stability in operation
- Trouble-free operation

Day 1
- Raw material management for required yarn quality
- Setting of a fiber preparation (ABC) for air-jet spinning
- Choosing the number of draw frame passages, right sliver hank, and draft distribution in the draw frame for the air-jet spinning process.
- Best work practices

Day 2
- Selection of technological components based on raw material and yarn quality requirements
- Service life of technological components
- Understanding the role of yarn piecing in air-jet spinning
- Optimizing yarn piecing strength and appearance
- Frequently committed mistakes in air-jet spinning

Day 3
- Understanding the role and working principle of yarn clearer
- Yarn testing – IPI, strength, hairiness, etc., action required for quality improvement
- Means to improve productivity in air-jet spinning with required yarn quality
- Humidification/Rieter recommendation and its impact on machine performance

Duration:
- 3 days

Target audience:
- Supervisors and above – production, quality, maintenance, utility

Number of participants:
- Up to a maximum of 10 – 15

INmill ✓ INclass ✓

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

■ **INmill** ✓ ■ **INclass** ✓

Mill Management
Mill economics

Mill management is key to obtain techno-economic advantages and respond to technology changes.

PRODUCTIVITY = $\frac{\text{Output}}{\text{Input}}$

Inputs include:

3M
- Man
- Machine
- Material

+

Expertise
- Management
- Process
- Technical

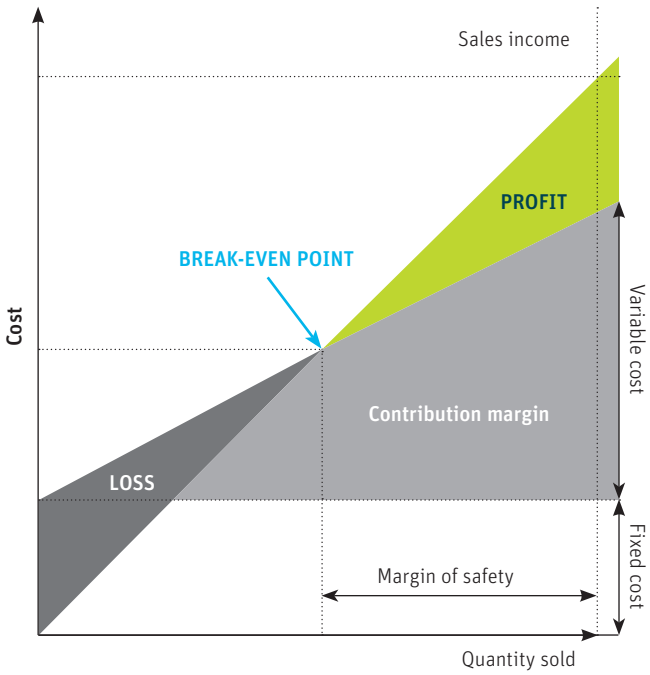
Increase of productivity
- machine productivity
- labour productivity

Optimization and consistency of yarn quality
Statistics for textile spinning

Reduction of the conversion costs

Better utilization of machines
Optimization of technology components lifetime

Training content
- Textile market scenario and challenges in spinning
- Understanding cost and quantity relationship (capacity utilization and efficiency)
- Importance of cost of conversion in profitability
- Understanding of clean raw material cost
- Role of waste analysis and waste composition in cost of conversion
- Role of climatic conditions on spinning mill productivity
- Understanding of process optimization/spin plan calculation/air measurement
- Understanding textile testing – testing reports and their interpretation



The Mill Economics training features simple breakeven analysis and teaches how to increase the margin of safety and thus, the mill competitiveness.

Impact of training

- Better understanding of raw material results in consistent yarn quality
  - Less yarn buyers complaints
  - Reduced yarn clearer cuts on winding machines, resulting in reduced operating cost for winding
  - A good spinning mill produces good quality, but the best spinning mill always produces the same quality

- Reduced conversion costs with better work practices
  - Optimization of opening and cleaning machines to reduce good fiber loss
  - Machine cleaning pressure started using 4 bar instead of 6 bar
  - Rapid analysis of machine and production data
  - Optimized speed curve and end brake rate on ring/compact spinning for higher productivity
  - Better understanding of cleaning requirements to reduce clearer cuts in winding process

Duration:
- 3 or 5 days

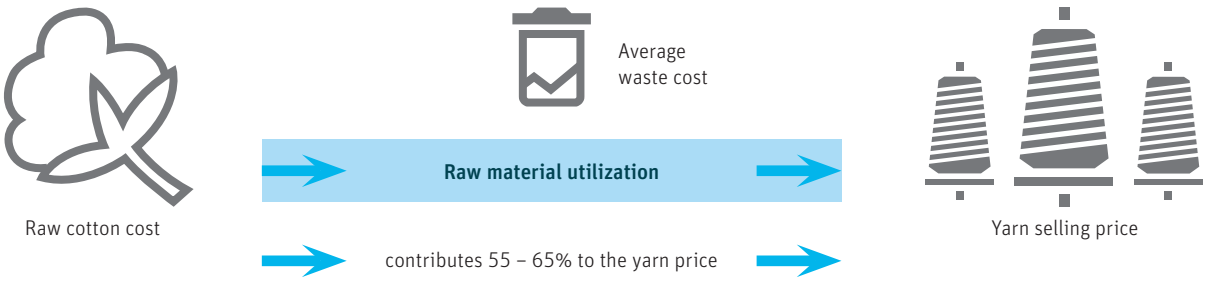
Target audience:
- Supervisors, middle management and above from production, quality, maintenance, utility

Number of participants:
- Up to a maximum of 10 to 15

■ **INmill** ✓ ■ **INclass** ✓

Mill economics classroom training

Raw material and yarn realization
Factors affecting clean raw material cost per kg of yarn



Mill Management
Mill Management Summit

Day 1
- Welcome
- Introduction to Rieter and market information
- Introduction to Rieter blowroom concept
- Process control techniques in carding
- Wire maintenance with IGS

Day 2
- Draw frame – optimal sliver quality
- Combing system – highest sliver quality – noil influencing factor
- Automation in combing – ROBOlap and SERVOlap
- Lunch with Rieter management team

Day 3
- Mill Economics – more with less
- After sales – Performance Optimization Services
- Surprise event – out of Rieter premises followed by dinner

Day 4
- Compacting devices – the new generation in yarn compacting
- Ring yarn – high quality yarns produced with high flexibility
- Ring traveller – enjoy performance
- Rieter Autoconer – More production with superior yarn quality

Day 5
- Rieter recycling system – recycling pre- and post consumer goods
- ESSENTIAL – the all in one mill management system
- Feedback and farewell

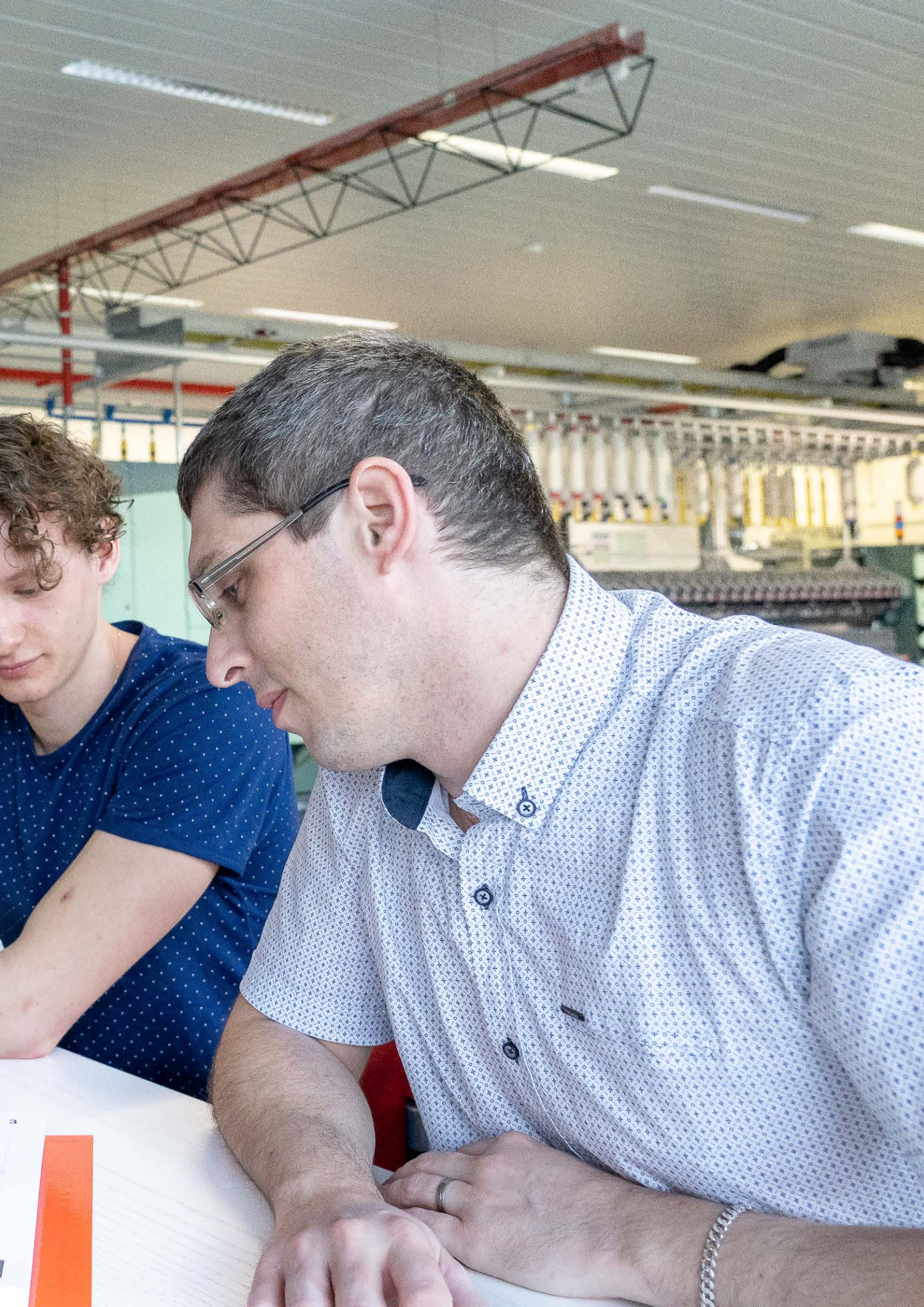
Duration:
- 5 days

Target audience:
- Supervisors, middle management and above from production, quality, maintenance, utility

Number of participants:
- Up to a maximum of 12

INmill ✕ INclass ✓

Mill management summit classroom training



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