

TRAINING PROGRAM 2022



WINDMÜLLER & HÖLSCHER

ACADEMY

W&H ACADEMY CUSTOMER TRAINING



Our training offer for you

The right training for your employees is an important factor for the performance of your production and quality of your products. With the W&H Academy, we offer you a competence center for training with a unique range of services specifically for the flexible packaging market. In addition to our training programs, we offer individual consultations and regular events on current industry and development topics.

Our trainers are familiar with the latest technology. As certified technical trainers, they have extensive know-how together with years of practical experience. State-of-the-art technology and the combination of theory and practice guarantee maximum learning success. Professional product and application knowledge go hand in hand in our trainings. Beyond that, we always adapt our services to current trends and market requirements.

Increase your expertise



Certified trainers

- Professional methods and didactics
- Many years of experience
- Trained in the latest technologies and tools



Know-how transfer

- Theoretical basics
- Hands-on directly at the machine
- Small learning groups for maximum learning success

Your advantages

- ✓ Improvement of employee qualification and motivation
- ✓ Safe and qualified machine operation
- ✓ Optimization of production processes
- ✓ Use of open machine potentials
- ✓ Increased productivity and quality
- ✓ Reduction of unplanned downtime

Offers of the W&H Academy

Trainings

In a W&H Training, you will receive practice-oriented training based on defined learning concepts and with clear learning objectives. You benefit from qualified trainers with many years of practical experience. We offer you professional product and application knowledge in our classroom and online training courses. We will be happy to advise you personally and work with you to develop a customized training concept for the flexible packaging market.

More information on page 42



Consultings

With a W&H Consulting you will receive a practice-oriented on-site consulting related to your individual challenges. Besides comprehensive expert knowledge we provide professional methods for identifying potential and advise you on how to implement the improvements.

More information on page 41



Technology Events

At our technology events, W&H experts share information about the latest industry and development trends and present practical solutions in our modern Technology Center. We regularly cooperate with leading global partners in the flexible packaging industry. In this way, you benefit from both our comprehensive know-how and our large network.



CERTIFIED TRAINERS



More about our certified trainers

Top quality, short delivery times and small order sizes - your customers expect maximum performance from you. This requires a high degree of machine availability and optimized processes. The qualification of your employees is also of great importance. In order to ensure that we impart knowledge efficiently and sustainably to our training participants, we continuously invest in the training and further education of our trainers. It is our goal to keep them up to date at all times.

With the successful further training as „Certified Technical Trainer TTxTT practice tested“ our trainers have the currently highest qualification on the training market for technical trainers in Germany. In this way, we ensure that the W&H Academy has the best know-how to impart technical expertise to our customers and employees.

The extensive technical knowledge and experience of our trainers are a prerequisite for successful training. Together they have more than 140 years of practical experience as trainers and service technicians.

Your advantages

- ✓ Qualified and practice-tested: Learning from certified trainers
- ✓ Efficient and sustainable transfer of technical expertise
- ✓ Highest learning success through professional methodology and didactics
- ✓ Experience from up to 260 trainings per year
- ✓ Continuous training regarding the latest technologies and tools

The right methodology and didactics guarantee maximum learning success. Today, the W&H Academy provides up to 260 technical trainings per year for our national and international customers as well as for our own employees.

Training offers 2022

Extrusion

Date	Description	Machine type	Details
04/11 - 04/14	Operator Training MDO	Extrusion	Page 5
05/02 - 05/06	Electrical Maintenance Training OPTIMEX	Blown film extrusion	Page 7
05/16 - 05/20	Operator Training VAREX	Blown film extrusion	Page 9
05/30 - 06/03	Operator Training OPTIMEX	Blown film extrusion	Page 11
06/07 - 06/10	Basic Training	Blown film extrusion	Page 13
06/07 - 06/10	Electrical Maintenance Training FILMATIC N	Film winder	Page 15
11/07 - 11/11	Electrical Maintenance Training VAREX	Blown film extrusion	Page 17
11/14 - 11/18	Operator Training OPTIMEX	Blown film extrusion	Page 11
11/28 - 12/02	Electrical Maintenance Training FILMATIC N	Film winder	Page 15

Printing

Date	Description	Machine type	Details
03/14 - 03/21	Online Training Series: Gravure Packaging Printing	Gravure printing	Page 19
03/28 - 04/01	Operator Training HELIOSTAR	Gravure printing	Page 21
04/19 - 04/22	Basic Training	Flexo printing	Page 23
06/20 - 06/24	First Time Right	Gravure printing	Page 25
08/17 - 08/19	Online Training: First Time Right	Gravure printing	Page 27
08/22 - 08/26	Electrical Maintenance training	Flexo printing	Page 29
09/05 - 09/09	Operator Training MIRAFLEX	Flexo printing	Page 31
11/02 - 11/04	Online Training: Basic Training	Flexo printing	Page 33
11/07 - 11/11	Operator Training NOVOFLEX	Flexo printing	Page 35
11/14 - 11/18	Operator Training HELIOSTAR	Gravure printing	Page 21

Converting

Date	Description	Machine type	Details
12/05 - 12/09	Mechanical Maintenance Training	Paper sack line	Page 37
12/12 - 12/16	Mechanical Maintenance Training	Paper sack line	Page 37

OPERATOR TRAINING MDO



Why a W&H Operator Training?

During our operator training your employees will be qualified by an experienced trainer for the safe and professional operation of your W&H MDO. They learn to utilize open machine potentials and to increase productivity and production quality in the long term.

In the training course, participants learn about the structure, equipment and safety devices of the MDO and understand the individual functions and technical processes. With the help of practical exercises directly on the machine, they learn how to successfully prepare and start production as well as how to professionally adjust and optimize the product.

In addition, participants will be able to recognize malfunctions and rectify them independently. Your employees will also be able to carry out day-to-day care and maintenance of the MDO independently afterwards.

Training content

- ✓ Structure and operation of the machine and individual modules
- ✓ Function and arrangement of the safety devices
- ✓ Operation of the MDO incl. the processes at production start and job changeover
- ✓ Product optimization
- ✓ Identification of troubles and troubleshooting (operator level)
- ✓ Routine care and maintenance of the machine (operator level)

More details



Recommended for

- Machine operators
- Shift managers
- Production managers

Group size

Max. 6 participants



Requirements

Knowledge of the participants in the field of extrusion technology, especially in the products and process engineering

Language

English



Machine technology

Blown film lines: MDO



Methods

- Transfer of theoretical knowledge in the training room
- Practical exercise directly on the machine

Location

W&H Academy in Lengerich, Germany



Date

April 11 till 14, 2022

* Registration deadline is 4 weeks before the course starts

Duration

4 days

Price per participant

2.690 €*



Learn more about **W&H Operator Training**:

https://www.wh.group/int/en/academy/customer_training/standard_trainings/operator_training/

ELECTRICAL MAINTENANCE TRAINING OPTIMEX



Why a W&H Maintenance Training?

Regular and professional maintenance is required to ensure the long-term and reliable operation of your highquality W&H extrusion line. With our electrical maintenance training, your employees will be enabled by an experienced trainer to maintain and service your machine carefully and in a qualified manner.

During the training, participants get an overview of the structure and design of the machine. They learn about the hardware and diagnostic tools of the individual electrical components as well as how they are used and function on the machine.

The participants learn about the interaction of the individual modules and are enabled to use the available diagnostic options to systematically search for and correct faults.

Training content

- ✓ Structure and operation of the machine and individual modules
- ✓ Electrical components and their operation
- ✓ Function and arrangement of the safety devices
- ✓ Electrical documentation and circuit diagrams
- ✓ Diagnostic options for systematic troubleshooting
- ✓ Detect and correct errors
- ✓ Routine care and maintenance of the machine
- ✓ Identification and ordering of spare parts

More details



Recommended for

Maintenance employees

Group size

Max. 6 participants



Requirements

Knowledge of the participants in the field of electrical engineering

Language

English



Machine technology

Blown film line: OPTIMEX



Methods

- Transfer of theoretical knowledge in the training room
- Practical training directly on the machine

Location

W&H Academy in Lengerich, Germany



Date

May 02 till 06, 2022

* Registration deadline is 4 weeks before the course starts

Duration

5 days

Price per participant

2.375 €*



Learn more about **W&H Electrical Maintenance Training**:

https://www.wh.group/int/en/academy/customer_training/standard_trainings/electrical_maintenance_training/

OPERATOR TRAINING VAREX



Why a W&H Operator Training?

During our operator training your employees will be qualified by an experienced trainer for the safe and professional operation of your W&H extrusion line. They learn to utilize open machine potentials and to increase productivity and production quality in the long term.

In the training course, participants learn about the structure, equipment and safety devices of the extrusion line and understand the individual functions and technical processes. With the help of practical exercises directly on the machine, they learn how to successfully prepare and start production as well as how to professionally adjust and optimize the product.

In addition, participants will be able to recognize malfunctions and rectify them independently. Your employees will also be able to carry out day-to-day care and maintenance of the extrusion line independently afterwards.

Training content

- ✓ Structure and operation of the machine and individual modules
- ✓ Function and arrangement of the safety devices
- ✓ Operation of the machine incl. assistance systems
- ✓ Preparation and start of production
- ✓ Management of orders, production data and order changes
- ✓ Identification of troubles and troubleshooting (operator level)
- ✓ Routine care and maintenance of the machine (operator level)

More details



Recommended for

- Machine operators
- Shift managers
- Production managers

Group size

Max. 6 participants



Requirements

Knowledge of the participants in the field of extrusion technology, especially in the products and process engineering

Language

English



Machine technology

Blown film line: VAREX



Methods

- Transfer of theoretical knowledge in the training room
- Practical exercise directly on the machine

Location

W&H Academy in Lengerich, Germany



Date

May 16 till 20, 2022

* Registration deadline is 4 weeks before the course starts

Duration

5 days

Price per participant

3.390 €*



Learn more about **W&H Operator Training**:
https://www.wh.group/int/en/academy/customer_training/standard_trainings/operator_training/

OPERATOR TRAINING OPTIMEX



Why a W&H Operator Training?

During operator training your employees will be qualified by an experienced trainer for the safe and professional operation of your W&H extrusion line. They learn to utilize open machine potentials and to increase productivity and production quality in the long term.

In the training course, participants learn about the structure, equipment and safety devices of the extrusion line and understand the individual functions and technical processes. With the help of practical exercises directly on the machine, they learn how to successfully prepare and start production as well as how to professionally adjust and optimize the product.

In addition, participants will be able to identify malfunctions and solve them independently. Your employees will also be able to carry out day-to-day care and maintenance of the extrusion line independently afterwards.

Training content

- ✓ Structure and operation of the machine and individual modules
- ✓ Function and arrangement of the safety devices
- ✓ Operation of the machine incl. assistance systems
- ✓ Preparation and start of production
- ✓ Management of orders, production data and order changes
- ✓ Identification of troubles and troubleshooting (operator level)
- ✓ Routine care and maintenance of the machine (operator level)

More details



Recommended for

- Machine operators
- Shift managers
- Production managers

Group size

Max. 6 participants



Requirements

Knowledge of the participants in the field of extrusion technology, especially in the products and process engineering

Language

English



Machine technology

Blown film line: OPTIMEX



Methods

- Transfer of theoretical knowledge in the training room
- Practical exercise directly on the machine

Location

W&H Academy in Lengerich, Germany



Date

- May 30 till June 03, 2022
 - November 14 till 18, 2022
- * Registration deadline is 4 weeks before the course starts

Duration

5 days

Price per participant

3.390 €*



Learn more about **W&H Operator Training**:
https://www.wh.group/int/en/academy/customer_training/standard_trainings/operator_training/

BASIC TRAINING BLOWN FILM EXTRUSION



Why a W&H Basic Training?

The training provides comprehensive knowledge of the process engineering basics of blown film extrusion. Participants are given an overview of the structure and technical features of a blown film extrusion line and learn about the functions and technical processes on the individual machine modules.

The operating system, the various automation systems and the function and arrangement of the safety devices are also taught during the training. In addition, participants receive an introduction to machine operation, including production startup and product optimization. To provide more in-depth knowledge of the theoretical seminar content, the training is supplemented by practical exercises directly on a W&H blown film extrusion line.

Training content

- ✓ Process engineering basics of blown film extrusion
- ✓ Structure and working principle of a blown film extrusion line and its individual modules
- ✓ PROCONTROL operating system and automation systems
- ✓ Introduction to machine operation
- ✓ Function and arrangement of the safety devices
- ✓ Tips for organizing the working environment

More details



Recommended for

The basic training is aimed in particular at newcomers and career changers such as:

- Machine operators
- Shift managers
- Production managers

Group size

Max. 6 participants



Language

English



Machine technology

Blown film extrusion: VAREX, OPTIMEX, SQUAREX



Methods

- Transfer of theoretical knowledge in the training room
- Practical training directly on the machine

Location

W&H Academy in Lengerich, Germany



Date

June 07 till 10, 2022

* Registration deadline is 4 weeks before the course starts

Duration

4 days

Price per participant

2.690 €*



Learn more about **W&H On-site Training**:
https://www.wh.group/int/en/academy/customer_training/standard_trainings/

ELECTRICAL MAINTENANCE TRAINING FILMATIC N



Why a W&H Maintenance Training?

Regular and professional maintenance is required to ensure the long-term and reliable operation of your W&H FILMATIC N winder. With our electrical maintenance training, participants are enabled by an experienced trainer to perform the routine care and electrical maintenance of your winder in a careful and qualified manner.

During the training, participants get an overview of the structure and design of the machine. They learn about the hardware and diagnostic tools of the individual electrical components as well as how they are used and function on the machine. The participants learn about the interaction of the individual modules and are enabled to use the available diagnostic options for a systematic identification and troubleshooting of faults.

Training content

- ✓ Structure and operating principle of the winder and the individual modules
- ✓ Electrical components and their functions
- ✓ Function and arrangement of the safety devices
- ✓ Electrical documentation and circuit diagrams
- ✓ Diagnostic options for systematic troubleshooting
- ✓ Detect and correct errors
- ✓ Routine care and maintenance
- ✓ Identification and ordering of spare parts

More details



Recommended for
Maintenance employees

Group size
Max. 6 participants



Requirements
Knowledge of the participants in the field of electrics

Language
English



Machine technology
Winder: FILMATIC N



Methods

- Transfer of theoretical knowledge in the training room
- Practical training directly on the machine

Location
W&H Academy in Lengerich, Germany



Date

- June 07 till 10, 2022
- November 28 till December 02, 2022

* Registration deadline is 4 weeks before the course starts

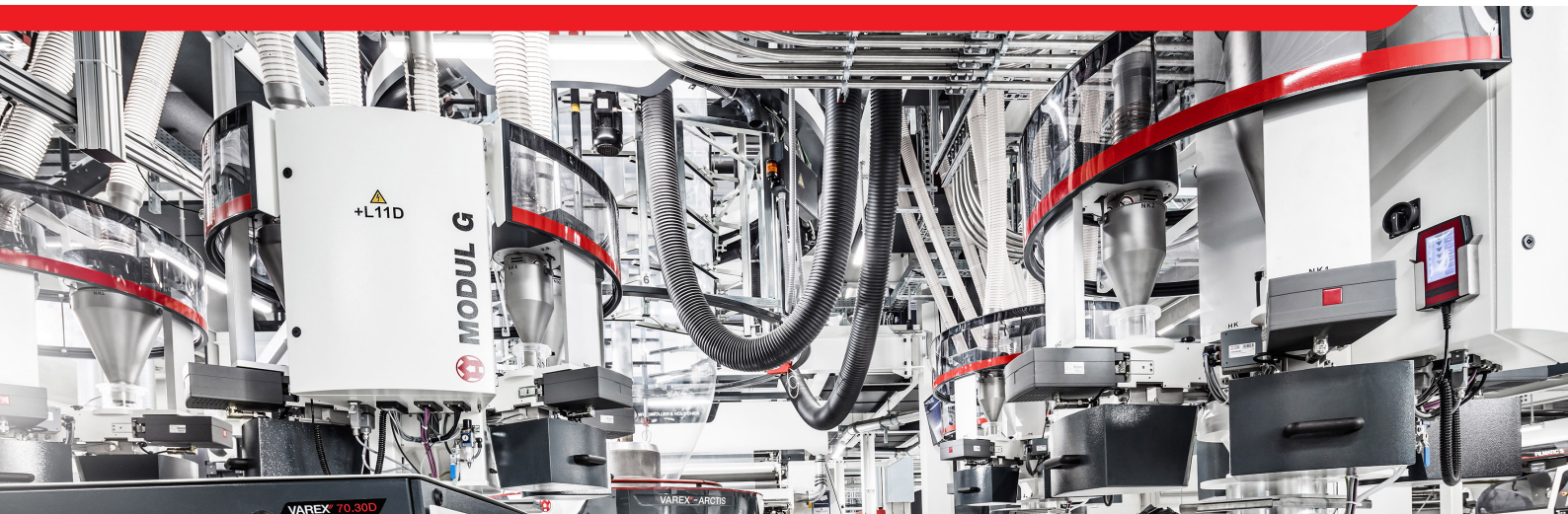
Duration
4-5 days

Price per participant

- Training in June: 1.900 €*
- Training in November: 2.375 €*



ELECTRICAL MAINTENANCE TRAINING VAREX



Why a W&H Maintenance Training?

Regular and professional maintenance is required to ensure the long-term and reliable operation of your highquality W&H extrusion line. With our electrical maintenance training, your employees will be enabled by an experienced trainer to maintain and service your machine carefully and in a qualified manner.

During the training, participants get an overview of the structure and design of the machine. They learn about the hardware and diagnostic tools of the individual electrical components as well as how they are used and function on the machine.

The participants learn about the interaction of the individual modules and are enabled to use the available diagnostic options to systematically search for and correct faults.

Training content

- ✓ Structure and operation of the machine and individual modules
- ✓ Electrical components and their operation
- ✓ Function and arrangement of the safety devices
- ✓ Electrical documentation and circuit diagrams
- ✓ Diagnostic options for systematic troubleshooting
- ✓ Detect and correct errors
- ✓ Routine care and maintenance of the machine
- ✓ Identification and ordering of spare parts

More details



Recommended for
Maintenance employees

Group size
Max. 6 participants



Requirements
Knowledge of the participants in the field of electrics

Language
English



Machine technology
Blown film line: VAREX



Methods

- Transfer of theoretical knowledge in the training room
- Practical training directly on the machine

Location
W&H Academy in Lengerich, Germany



Date
November 07 till 11, 2022
* Registration deadline is 4 weeks before the course starts

Duration
5 days

Price per participant
2.375 €*



ONLINE TRAINING SERIES GRAVURE PACKAGING PRINTING



Why a W&H Online Training Gravure Packaging Printing?

In the practice-oriented online training series on packaging printing, the participants gain a deep insight into the workflows, technologies and potential of modern packaging printing.

The W&H Academy online training series provides leading know-how, helps to identify optimization potential and to analyze and avoid quality problems. In six online training courses, we provide in-depth knowledge of modern packaging printing. We will give an overview of the various printing processes and show which products the technologies can be used for. We focus in particular on the gravure printing process and impart the necessary know-how for process optimization and standardization in order to meet the requirements of international markets with regard to quality and efficiency.

To ensure that the technical content is presented in a practice-oriented manner the presentations in the online training courses are regularly supplemented by topic-based video clips from the modern W&H Technology Center.

Training modules

- ✓ Basic of packaging printing part 1
- ✓ Basic of packaging printing part 2
- ✓ Cylinder manufacturing for gravure packaging printing
- ✓ Gravure printing and application technology
- ✓ Troubleshooting in gravure packaging printing
- ✓ Ink saving by laser engraved cylinders



Learn more about the **W&H Online training series for packaging printing:**
wh.group/int/en/academy/customer_trainings/online_trainings/online_training_printing_packaging.html

More details



Recommended for

- Beginners
- Those who want to refresh or up-date their knowledge
- Product managers
- Printers

- Quality managers
- Brand owners
- Purchasers

The target audience may vary depending on the training module.



Machine technology

Gravure printing



Trainer

print.con-Beilenhoff Consulting in cooperation with the W&H Academy.

With more than 30 years of experience, Stefan Beilenhoff supports the printing and packaging industry as an independent consultant for more than 10 years.

Language

English



Methods

- Online presentation via video conference
- Virtual machine tour



Date

March 14 till 21, 2022

* Registration deadline is 4 weeks before the course starts

Price per participant

300 €* per module

Duration

- 6 days
- 90 Minutes per module
- Q&A afterwards

OPERATOR TRAINING HELIOSTAR



Why a W&H Operator Training?

During our operator training your employees will be qualified by an experienced trainer for the safe and professional operation of your W&H printing machine. They learn to utilize open machine potentials and to increase productivity and production quality in the long term.

In the training course, participants learn about the structure, equipment and safety devices of the press and understand the individual functions and technical processes. With the help of practical exercises directly on the machine, they learn how to successfully prepare and start production as well as how to professionally adjust and optimize the product.

In addition, participants will be able to recognize malfunctions and rectify them independently. Your employees will also be able to carry out day-to-day care and maintenance of the printing machine independently afterwards.

Training content

- ✓ Structure and operation of the machine and individual modules
- ✓ Function and arrangement of the safety devices
- ✓ Operation of the machine incl. assistance systems
- ✓ Preparation and start of production
- ✓ Management of orders, production data and order changes
- ✓ Identification of troubles and troubleshooting (operator level)
- ✓ Routine care and maintenance of the machine (operator level)

More details



Recommended for

- Machine operators
- Shift managers
- Production managers

Group size

Max. 6 participants



Requirements

Knowledge of the participants of printing technology, especially flexible packaging printing, materials and the production environment

Language

English



Machine technology

Gravure printing machine : HELIOSTAR



Methods

- Transfer of theoretical knowledge in the training room
- Practical training directly on the machine

Location

W&H Academy in Lengerich, Germany



Date

- March 28 till April 01, 2022
 - November 14 till 18, 2022
- * Registration deadline is 4 weeks before the course starts

Duration

5 days

Price per participant

2.490 €*



Learn more about **W&H Operator Training**:
https://www.wh.group/int/en/academy/customer_training/standard_trainings/operator_training/

BASIC TRAINING FLEXO PRINTING



Why a W&H Basic Training?

The training provides comprehensive knowledge of the basics of flexographic printing and the properties of the process technology. The participants receive an overview of the structure and working principle of a flexographic printing press and learn about the technical processes on the individual machine modules. In addition to selecting the right consumables, we also address the typical tools for managing the printing process. Participants will also receive an introduction to machine operation, including the processes for production startup and job changeover. The function and arrangement of safety devices are also taught.

To provide more in-depth knowledge of the theoretical seminar content, the training is supplemented by practical exercises directly on a W&H printing press. Participants print and evaluate a test motif and receive tips on how to correct typical printing errors.

Training content

- ✓ Basics of flexographic printing: repro, printing plates, sleeves, plate mounting, tapes, anilox rollers, colors and quality
- ✓ Structure and working principle of a flexo printing press and its individual modules
- ✓ Selection of the right tools and consumables
- ✓ Troubleshooting of typical printing errors
- ✓ Introduction to machine operation
- ✓ Printing and evaluating a test form

More details



Recommended for

The basic training is aimed in particular at newcomers and career changers such as:

- Machine operators
- Shift managers
- Production managers

Group size

Max. 6 participants



Language

English



Machine technology

Flexo printing machines: MIRAFLEX, NOVOFLEX, VISTAFLEX



Methods

- Transfer of theoretical knowledge in the training room
- Practical training directly on the machine

Location

W&H Academy in Lengerich, Germany



Date

April 19 till 22, 2022

* Registration deadline is 4 weeks before the course starts

Duration

4 days

Price per participant

2.100 €*



WORKSHOP FIRST TIME RIGHT



Why First Time Right?

In this practice-oriented workshop participants receive an overview of various technologies, processes, methods and measuring techniques in modern packaging printing. We specifically address the gravure printing process, the preparation of print data and the production of various printing forms and their specific advantages and disadvantages.

The expert lectures will be accompanied by live demonstrations in the W&H Technology Center. We impart practical application knowledge directly on our modern gravure presses. In the process we benchmark standard industry setup and coordination processes and provide recommendations for optimization. After the workshop participants are able to optimize and standardize processes to such an extent that production jobs can be released with no or no more than one color correction.

Training content

- ✓ Various technologies and processes in packaging printing
- ✓ Detailed insights into the gravure printing process
- ✓ Preparation of print data (reproduction)
- ✓ Printing form production in gravure printing
- ✓ Color Management
- ✓ Ink formulation and ink preparation
- ✓ Film and corona pretreatment
- ✓ Efficient setup
- ✓ Benchmark of industry-standard and optimal setup and coordination processes

More details



Recommended for

- Production managers
- Shift supervisors
- Press operators
- Ink laboratory managers
- Employees from process development, application technology, quality management and technical sales

Group size

Max. 12 participants



Machine technology

- Gravure printing
- Live demonstration with application examples on the W&H gravure printing press HELIOSTAR™



Trainer

print.con – Beilenhoff Consulting in cooperation with the W&H Academy.
With more than 30 years of experience, Stefan Beilenhoff supports the printing and packaging industry as an independent consultant for more than 12 years.

Language

English



Methods

- Expert lectures in the W&H Academy Training Center
- Video demonstration of practical applications live from the W&H Technology Center

Location

W&H Academy in Lengerich, Germany



Date

June 20 till 24, 2022

Duration

5 days

* Registration deadline is 4 weeks before the course starts

Price per participant

2.490 €*



Learn more about **W&H Technology Events**:
https://www.wh.group/int/en/academy/customer_training/technology_events/

ONLINE TRAINING FIRST TIME RIGHT



Why should I attend this Online Training?

In this practice-oriented online training participants receive an overview of various technologies, processes, methods and measuring techniques in modern packaging printing. We specifically address the gravure printing process, the preparation of print data and the production of various printing forms and their specific advantages and disadvantages.

The online training is accompanied by live video broadcasts from the W&H Technology Center: We impart practical application knowledge directly on our modern gravure presses. In the process we benchmark standard industry setup and coordination processes and provide recommendations for optimization. After the training participants are able to optimize and standardize processes to such an extent that production jobs can be released with no or no more than one color correction.

Training content

- ✓ Various technologies and processes in packaging printing
- ✓ Detailed insights into the gravure printing process
- ✓ Preparation of print data (reproduction)
- ✓ Printing form production in gravure printing
- ✓ Color Management
- ✓ Ink formulation and ink preparation
- ✓ Film and corona pretreatment
- ✓ Efficient setup
- ✓ Benchmark of industry-standard and optimal setup and coordination processes



Learn more about **W&H Online Training**:
www.wh.group/int/en/academy/online_academy_trainings/

More details



Recommended for

- Production managers
- Shift supervisors
- Press operators
- Ink laboratory managers
- Employees from process development, application technology, quality management and technical sales



Machine technology

- Gravure printing
- Live demonstration with application examples on the W&H gravure printing press HELIOSTAR™



Trainer

print.con – Beilenhoff Consulting in cooperation with the W&H Academy.
 With more than 30 years of experience, Stefan Beilenhoff supports the printing and packaging industry as an independent consultant for more than 12 years.

Language

English



Methods

- Online presentation via video conference
- Video demonstration of practical applications live from the W&H Technology Center



Date

August 17 till 19, 2022

* Registration deadline is 4 weeks before the course starts

Duration

3 days

Price per participant

1.290 €*

ELECTRICAL MAINTENANCE TRAINING FLEXO PRINTING MACHINES



Why a W&H Maintenance Training?

Regular and professional maintenance is required to ensure the long-term and reliable operation of your high-quality W&H printing machine. With our electrical maintenance training, your employees will be enabled by an experienced trainer to maintain and service your machine carefully and in a qualified manner.

During the training, participants get an overview of the structure and design of the machine. They learn about the hardware and diagnostic tools of the individual electrical components as well as how they are used and function on the machine.

The participants learn about the interaction of the individual modules and are enabled to use the available diagnostic options to systematically search for and correct faults.

Training content

- ✓ Structure and operation of the machine and individual modules
- ✓ Electrical components and their operation
- ✓ Function and arrangement of the safety devices
- ✓ Electrical documentation and circuit diagrams
- ✓ Diagnostic options for systematic troubleshooting
- ✓ Detect and correct errors
- ✓ Routine care and maintenance of the machine
- ✓ Identification and ordering of spare parts

More details



Recommended for
Maintenance employees

Group size
Max. 6 participants



Requirements
Knowledge of the participants in the field of electrical engineering

Language
English



Machine technology
• Flexo printing machines: MIRAFLEX, NOVOFLEX, VISTAFLEX



Methods
• Transfer of theoretical knowledge in the training room
• Practical training directly on the machine

Location
W&H Academy in Lengerich, Germany



Date
August 22 till 26, 2022
* Registration deadline is 4 weeks before the course starts

Duration
5 days

Price per participant
2.375 €*



OPERATOR TRAINING MIRAFLEX



Why a W&H Operator Training?

During our operator training your employees will be qualified by an experienced trainer for the safe and professional operation of your W&H printing machine. They learn to utilize open machine potentials and to increase productivity and production quality in the long term.

In the training course, participants learn about the structure, equipment and safety devices of the press and understand the individual functions and technical processes. With the help of practical exercises directly on the machine, they learn how to successfully prepare and start production as well as how to professionally adjust and optimize the product.

In addition, participants will be able to identify malfunctions and rectify them independently. Your employees will also be able to carry out day-to-day care and maintenance of the printing machine independently afterwards.

Training content

- ✓ Structure and operation of the machine and individual modules
- ✓ Function and arrangement of the safety devices
- ✓ Operation of the machine incl. assistance systems
- ✓ Preparation and start of production
- ✓ Management of orders, production data and order changes
- ✓ Identification of troubles and troubleshooting (operator level)
- ✓ Routine care and maintenance of the machine (operator level)

More details



Recommended for

- Machine operators
- Shift managers
- Production managers

Group size

Max. 6 participants



Requirements

Knowledge of the participants of printing technology, especially flexible packaging printing, materials and the production environment

Language

English



Machine technology

Flexo printing machines: MIRAFLEX



Methods

- Transfer of theoretical knowledge in the training room
- Practical training directly on the machine

Location

W&H Academy in Lengerich, Germany



Date

September 05 till 09, 2022

Duration

5 days

* Registration deadline is 4 weeks before the course starts

Price per participant

2.490 €*



Learn more about **W&H Operator Training**:
https://www.wh.group/int/en/academy/customer_training/standard_trainings/operator_training/

ONLINE TRAINING BASICS FOR FLEXO PRINTING



Why a W&H Basic Training?

The training provides comprehensive knowledge of the basics of flexographic printing and the properties of the process technology. The participants receive an overview of the structure and working principle of a flexographic printing press and learn about the technical processes on the individual machine modules.

In addition to selecting the right consumables, we also address the typical tools for managing the printing process. Furthermore, participants will receive an introduction to machine operation and receive tips on how to correct typical printing errors and improve production and quality.

Training content

- ✓ Basics of flexographic printing: repro, printing plates, sleeves, plate mounting, tapes, anilox rollers, colors and quality
- ✓ Structure and working principle of a flexo printing press
- ✓ Selection of the right tools and consumables
- ✓ Troubleshooting of typical printing errors
- ✓ Introduction to machine operation



Learn more about **W&H Online Training**:
www.wh.group/int/en/academy/online_academy_trainings/

More details



Recommended for

The basic training is aimed in particular at newcomers and career changers such as:

- Machine operators
- Shift supervisors
- Production managers



Language

English



Machine technology

Flexo printing machines: MIRAFLEX, NOVOFLEX, VISTAFLEX



Methods

Online training via video conference



Date

November 02 till 04, 2022

* Registration deadline is 4 weeks before the course starts

Duration

3 days, 2-3 hours each day

Price per participant

1.490 €*

OPERATOR TRAINING NOVOFLEX



Why a W&H Operator Training?

During operator training your employees will be qualified by an experienced trainer for the safe and professional operation of your W&H printing machine. They learn to utilize open machine potentials and to increase productivity and production quality in the long term.

In the training course, participants learn about the structure, equipment and safety devices of the press and understand the individual functions and technical processes. With the help of practical exercises directly on the machine, they learn how to successfully prepare and start production as well as how to professionally adjust and optimize the product.

In addition, participants will be able to identify malfunctions and rectify them independently. Your employees will also be able to carry out day-to-day care and maintenance of the printing machine independently afterwards.

Training content

- ✓ Structure and operation of the machine and individual modules
- ✓ Function and arrangement of the safety devices
- ✓ Operation of the machine incl. assistance systems
- ✓ Preparation and start of production
- ✓ Management of orders, production data and order changes
- ✓ Identification of troubles and troubleshooting (operator level)
- ✓ Routine care and maintenance of the machine (operator level)

More details



Recommended for

- Machine operators
- Shift managers
- Production managers

Group size

Max. 6 participants



Requirements

Knowledge of the participants of printing technology, especially flexible packaging printing, materials and the production environment

Language

English



Machine technology

Flexo printing machine: NOVOFLEX



Methods

- Transfer of theoretical knowledge in the training room
- Practical training directly on the machine

Location

W&H Academy in Lengerich, Germany



Date

November 07 till 11, 2022

* Registration deadline is 4 weeks before the course starts

Duration

5 days

Price per participant

2.490 €*

MECHANICAL MAINTENANCE TRAINING PAPER SACK LINES



Why a W&H Maintenance Training?

Regular and professional maintenance measures are required to ensure long-lasting and reliable operation of your high-quality W&H paper sack line. With our mechanical maintenance training, the participants will be empowered by an experienced W&H trainer to carefully perform routine care and mechanical maintenance on your paper sack line.

First, participants receive an overview of the machine's structure and design. Thereby, they get to know the individual units and how they are used and function on the machine. The participants learn how the individual modules interact and acquire the knowledge to adjust the basic settings on the various apparatus independently. We also address the identification and ordering of spare parts, including the necessary mechanical documentation.

Training content

- ✓ Structure and operation of the paper sack machine and individual modules
- ✓ Basic setting of the sheet unit, bottom opening station and the tear-off unit
- ✓ Transport settings
- ✓ Routine care and maintenance
- ✓ Mechanical documentation
- ✓ Identification and ordering of spare parts

More details



Recommended for
Maintenance employees

Group size
Max. 6 participants



Requirements
Knowledge of the participants in the field of mechanical maintenance of a paper sack line

Language
English



Machine technology
Paper sack lines: Tuber and bottomer



Methods

- Transfer of theoretical knowledge in the training room
- Practical training directly on the machine

Location
W&H Academy in Lengerich, Germany



Date

- December 05 till 09, 2022
- December 12 till 16, 2022

* Registration deadline is 4 weeks before the course starts

Duration
5 days

Price per participant
2.375 €*



FURTHER OFFERS

W&H ONLINE TRAININGS



Why W&H Online Trainings?

Effective, flexible and location independent - benefit from the extensive know-how of our experienced trainers even from the distance. In our online training courses, we provide in-depth expert knowledge live over the internet. Via chat and video conference, you can exchange personal information with our experts at any time.

Our offer covers everything from training for the operation and maintenance of W&H machines to process engineering basics. We always combine theoretical basic knowledge with practical application examples. If you cannot find the training you are looking for, we will be pleased to address your individual needs and develop a training course tailored to your needs.

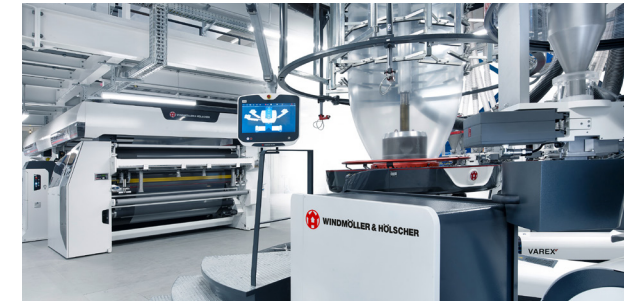
Use the time now for your professional development - on the road, in your home office or at your workplace.

Your advantages

- ✓ Comfortable online training at the workplace, in the home office or on the road
- ✓ Learning from certified trainers with many years of practical experience
- ✓ Direct communication and personal advice
- ✓ No travel time and costs
- ✓ High flexibility and short term booking
- ✓ Development of individual online trainings tailored to your specific needs

Our online training highlights

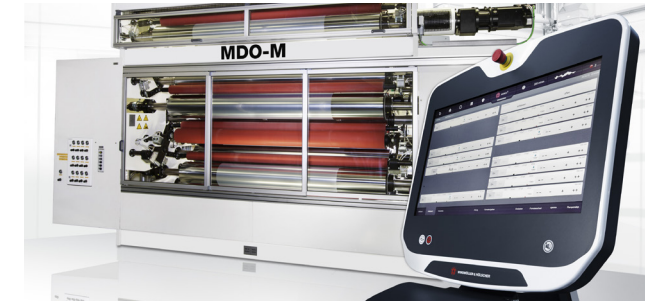
Extrusion



Basics of blown film extrusion

Learn the basics of blown film extrusion, step by step in material flow direction through the line.

Training duration: 2 hours

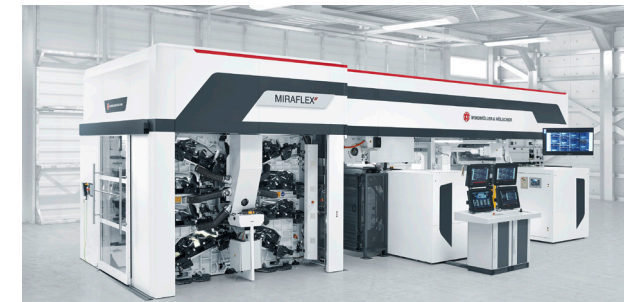


MDO Technology

Learn the basics of MDO technology, from hardware and setup to operation and application.

Training duration: 4 hours

Print



Basics of Flexo printing

Learn the basics of flexographic printing. In addition to the structure and functional principle of a machine, you will learn the process engineering sequences.

Training duration: 6 hours



Automation and assistance systems

Gain the knowledge to professionally operate the automation systems of a printing press.

Training duration: 3 hours



For more information and offers on **online training**, visit:
www.wh.group/int/en/academy/online_academy_trainings/

W&H CONSULTINGS

Why W&H Consultings?

With W&H Consulting, we respond to your individual needs and challenges. You will receive practical on-site advice at your premises directly at your machines. In addition to comprehensive expert knowledge, we apply professional methods to identify potential and advise you on how to implement improvements. We document the results of our analysis and optimization in a detailed report. If required, we can also provide long-term support in implementing the defined measures and stand by your side as a professional consultant and partner. Our offer includes consulting services for the optimization of your setup processes and production performance. In addition, we also advise you on the production of your products and the professional maintenance of your machines.

Your advantages

- ✓ Practice-oriented expert advice directly on your premises
- ✓ Optimization of setup processes on your machine
- ✓ Joint documentation and analysis to improve your processes
- ✓ Measures individually tailored to your needs
- ✓ Follow-up audit for clarification of questions and follow-up of the measures

Our Consulting offers



Process Consulting (setup)

The goal of this consulting is to optimally coordinate all value-added activities and reduce unnecessary cost factors.

- Basics of process optimization (Lean Management)
- Optimization of setup processes on your machine
- Joint documentation and analysis to improve your processes



Performance Check

With the Performance Check you can sustainably increase your productivity and quality.

- Improvement of production processes
- Professional analysis based on performance checklists
- Sustainable improvement of productivity and quality
- Early avoidance of downtime



Learn more about **W&H Consultings**:
https://www.wh.group/int/en/academy/customer_trainings/consulting/

INDIVIDUAL TRAINING

Why an Individual Training?

Because of the extensive know-how and many years of experience of our certified trainers, we are able to offer a wide range of training courses. In particular individual training gives you the opportunity to build specifically on your employees' existing knowledge and develop it further optimally.

The W&H Academy relies on the combination of theory and practice. Exercises directly on the machine ensure maximum learning success. Determine your own focus in the areas of machine technology, maintenance or process engineering. We can also help you to optimize your processes and products.

We will be happy to advise you personally and work with you to develop a tailor-made training concept for the flexible packaging market.

Your advantages

- ✓ Customized training concepts for the flexible packaging market
- ✓ Personal advice and supervision
- ✓ Individual focuses in the areas of mechanical engineering, maintenance, process engineering and production
- ✓ Combination of theory and practice with exercises directly on the machine
- ✓ Certified trainers with many years of practical experience

Your contact to us

For more information or booking inquiries please contact your local sales partner or the W&H Academy customer training.

@ training-center@wuh-group.com

*All prices are net plus VAT. The prices include training documents as well as break and lunch catering on our premises. Travel and accommodation costs are not included.

In all other respects, the General delivery and service conditions for commercial customers in Germany and abroad of Windmüller & Hölscher KG shall apply (version February 1, 2020).

The training course can be cancelled by the participant free of charge with a notice period of four weeks to the start of the course. After that and in case of non-participation, the full price is due.

Windmüller & Hölscher reserves the right to cancel courses or seminars or to exclude participants for organizational or economic reasons. This applies in particular if the minimum number of participants is not reached or if trainers are not available or if a provision ban takes effect.

Any participation fee already paid will be refunded. Travel and accommodation costs will not be reimbursed.



Learn more about **W&H Academy Customer Training**:
https://www.wh.group/int/en/academy/customer_training/



WINDMÜLLER & HÖLSCHER

ACADEMY