

# TRAINING PROGRAM

2022



WINDMÖLLER & 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
11.04. - 14.04.	Operator Training MDO	Extrusion	<a href="#">Page 5</a>
02.05. - 06.05.	Electrical Maintenance Training OPTIMEX	Blown film extrusion	<a href="#">Page 7</a>
16.05. - 20.05.	Operator Training VAREX	Blown film extrusion	<a href="#">Page 9</a>
30.05. - 03.06.	Operator Training OPTIMEX	Blown film extrusion	<a href="#">Page 11</a>
07.06. - 10.06.	Basic Training	Blown film extrusion	<a href="#">Page 13</a>
07.06. - 10.06.	Electrical Maintenance Training FILMATIC N	Film winder	<a href="#">Page 15</a>
07.11. - 11.11.	Electrical Maintenance Training VAREX	Blown film extrusion	<a href="#">Page 17</a>
14.11. - 18.11.	Operator Training OPTIMEX	Blown film extrusion	<a href="#">Page 11</a>
28.11. - 02.12.	Electrical Maintenance Training FILMATIC N	Film winder	<a href="#">Page 15</a>

### Print

Date	Description	Machine type	Details
14.03. - 21.03.	Online Training Series: Gravure Packaging Printing	Gravure printing	<a href="#">Page 19</a>
28.03. - 01.04.	Operator Training HELIOSTAR	Gravure printing	<a href="#">Page 21</a>
19.04. - 22.04.	Basic Training	Flexo printing	<a href="#">Page 23</a>
20.06. - 24.06.	First Time Right	Gravure printing	<a href="#">Page 25</a>
17.08. - 19.08.	Online Training: First Time Right	Gravure printing	<a href="#">Page 27</a>
22.08. - 26.08.	Electrical Maintenance training	Flexo printing	<a href="#">Page 29</a>
05.09. - 09.09.	Operator Training MIRAFLEX	Flexo printing	<a href="#">Page 31</a>
02.11. - 04.11.	Online Training: Basic Training	Flexo printing	<a href="#">Page 33</a>
07.11. - 11.11.	Operator Training NOVOFLEX	Flexo printing	<a href="#">Page 35</a>
14.11. - 18.11.	Operator Training HELIOSTAR	Gravure printing	<a href="#">Page 21</a>

### Converting

Date	Description	Machine type	Details
07.11. - 11.11.	Mechanical Maintenance Training	Paper sack line	<a href="#">Page 37</a>
12.12. - 16.12.	Mechanical Maintenance Training	Paper sack line	<a href="#">Page 37</a>



# OPERATOR TRAINING MDO



## 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 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

11. till 14. April 2022

### 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/](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

02. till 06. May 2022

### 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/](https://www.wh.group/int/en/academy/customer_training/standard_trainings/electrical_maintenance_training/)

# OPERATOR TRAINING VAREX



## 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 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

16. till 20. May 2022

### 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/](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

- 30. May. till 03. June 2022
- 14. till 18. November 2022

### 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/](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

07. till 10. June 2022

### 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/](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

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

### 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

07. till 11. November 2022

### 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/](https://www.wh.group/int/en/academy/customer_training/standard_trainings/electrical_maintenance_training/)



# ONLINE TRAINING SERIES GRAVURE PACKAGING PRINTING



## Why 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

## 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

14. till 21. March 2022

### Price per participant

300 €\* per module

### Duration

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



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](https://wh.group/int/en/academy/customer_trainings/online_trainings/online_training_printing_packaging.html)

# OPERATOR TRAINING HELIOSTAR



## 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 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

Flexo 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

- 28. March till 01. April 2022
- 14. till 18. November 2022

### 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/](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

Flexographic printing: 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

19. till 22. April 2022

### Duration

4 days

### Price per participant

2.100 €\*



Learn more about **W&H On-site Training**:

[https://www.wh.group/int/en/academy/customer\\_training/standard\\_trainings/](https://www.wh.group/int/en/academy/customer_training/standard_trainings/)

# 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

20. till 24. June 2022

### Duration

5 days

### Price per participant

2.490 €\*





# 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

## 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

17. till 19. August 2022

### 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
- 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

22. till 26. August 2022

### Duration

5 days

### Price per participant

2.375 €\*





# OPERATOR TRAINING MIRAFLEX



## 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 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

05. till 09. September 2022

### 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/](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

## 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

Flexographic printing: MIRAFLEX, NOVOFLEX, VISTAFLEX



### Methods

Online training via video conference



### Date

02. till 04. November 2022

### 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

07. till 11. November 2022

### 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/](https://www.wh.group/int/en/academy/customer_training/standard_trainings/operator_training/)

# 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

- 07. till 11. November 2022
- 12. till 16. December 2022

### 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.

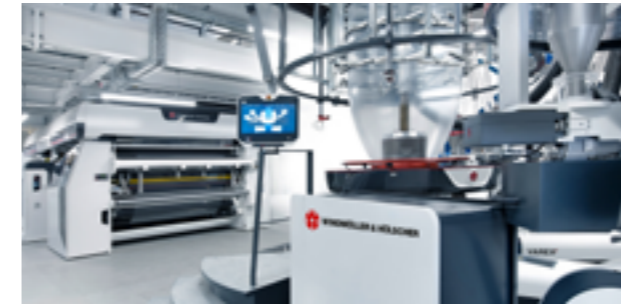
Use the time now for your professional development - on the road, in your home office or at your workplace.

#### 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

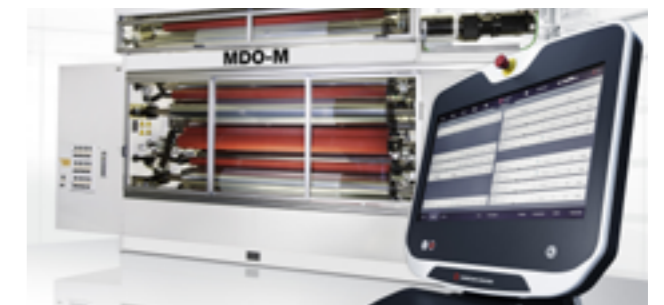
#### Extrusion



##### 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



# 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/](https://www.wh.group/int/en/academy/customer_trainings/consulting/)

# INDIVIDUAL TRAINING

## Why an Individual Training?

Thanks to 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](mailto: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).



Learn more about **W&H Academy Customer Training**:  
[https://www.wh.group/int/en/academy/customer\\_training/](https://www.wh.group/int/en/academy/customer_training/)





**WINDMÜLLER & HÖLSCHER**

**ACADEMY**