



THERMAL SYSTEMS

# KNOW-HOW FOR YOUR SUCCESS

REHM ACADEMY | Training Brochure

[www.rehm-group.com](http://www.rehm-group.com)

# WHAT TO DO ABOUT THE SHORTAGE OF SKILLED WORKERS?

For years, technological change has been advancing at an increasingly rapid pace, significantly impacting the labour market. Many companies are finding it more and more difficult to find qualified professionals with the necessary skills and knowledge to meet the demands of modern industry. The consequences of this shortage of skilled workers are varied: production delays, increased workload for existing staff, financial losses, and reduced competitiveness.

In this context, training and continuing education programmes are becoming increasingly important. Rehm Thermal Systems recognised the importance of lifelong learning early on and has actively invested in the development of its employees through the Rehm Academy to successfully address the challenges of the future. For several years now, these training opportunities have also been available to customers.

Discover the wide range of training offered by our Rehm Academy and find the right course for your needs!





# CONTENT

02 | What to Do About the Shortage of Skilled Workers?

06 | Optimal Conditions for Your Success

# USER TRAINING

08 | Practical Learning

10 | The Vision Series

12 | The Condenso Series

14 | The RDS Drying Systems

16 | The Protecto Series

# SOFTWARE TRAINING

18 | Know-how for Modern Industry, ViCON

19 | Hermes, MES with ROI or CFX, Prometrics/Solderstar

# OPTIMAL CONDITIONS FOR YOUR SUCCESS

The Rehm Academy, located at the company's headquarters in Blaubeuren-Seissen, offers over 800 m<sup>2</sup> of space across two levels, providing the ideal environment for practical and sustainable learning. It includes five modern training rooms and two machine rooms. The Academy offers user training for various Rehm systems as well as software training.

Our trainers are experts in their respective fields. They are happy to address your individual process requirements and work scenarios and share their knowledge, along with valuable tips and tricks, from which you and your employees can benefit in everyday work.



From left to right: Annalena Weiß (Organisational Manager, Rehm Academy), Louis Striebel (Trainer, Protecto Series and RDS Systems), Andreas Weber (Trainer, Software), Filip Ott (Trainer, Condensio Series and Protecto Series), Walter Seng (Trainer, Vision Series)



The theory in user training can be directly applied in practice on Rehm machines, reinforcing newly acquired knowledge.



In all user training sessions, the focus can be placed on maintenance, enabling your employees to perform these tasks independently.

# PRACTICAL LEARNING

User training provides both theoretical knowledge in process technology and practical skills in the operation and maintenance of equipment. The theory is directly applied in practice on Rehm machines, ensuring that new knowledge is solidified.

We currently offer one- or two-day user training for the Vision Series (with vacuum option), the Condenso Series, the Protecto Series and the RDS Drying Systems.

The training is available for users in various roles, ensuring that your employees receive the exact training that will benefit your company. As the user training builds on previous levels, we recommend attending prior levels before advancing.





## QUALIFICATION LEVELS:

### BASIC

The BASIC level is particularly designed for equipment operators, covering the fundamentals (including safety instructions, equipment function and structure as well as the operation software), providing a foundation for all subsequent levels.

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### ADVANCED

The ADVANCED level is ideal for employees in maintenance and repair as well as production line managers, covering topics such as equipment maintenance, troubleshooting and error correction.

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### EXPERT

The EXPERT level is primarily designed for line supervisors and process engineers.





## THE VISION SERIES

In convection soldering with the Vision Series systems, the soldering process occurs through heat transfer via flowing gases (air or nitrogen). Additional options are available, such as a vacuum unit for nearly void-free soldering, pyrolysis for optimal residue removal, or underside cooling for gentle processing of heavy boards.

## BASIC

### Learning Content

- › Fundamentals of (reflow) soldering, system structure, function and identification of the main components, basic knowledge of system operation using the ViCON interface, as well as process-related alarm messages

## ADVANCED

### Learning Content

- › Hazards posed by the system, maintenance tasks, personal protective equipment, replacement of consumables and wear parts as well as adjustment tasks
- › Replacement of pyrolysis granulate
- › Alarm messages and their causes, as well as troubleshooting – practical exercises
- › Function of the nitrogen system, structure of the gas plate and nitrogen supply to the system, nitrogen settings in the control interface, causes of high residual oxygen levels, nitrogen regulation – practical exercises, error simulation and troubleshooting

## EXPERT

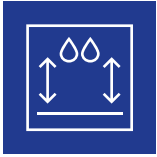
### Learning Content

- › Creating programs with all relevant parameters, reading protocols, database management, data backup, starting the system using the schedule (heating up), user management, creating user accounts and using the Rehm recorder
- › Replacing components of the transport system in a single-lane system, such as transport profiles, pin or link chain
- › Replacing other components, such as mechanical stations, carriages, heating elements or fan wheels

## VACUUM

### Learning Content

- › Vacuum process, path, pump and chamber; transport system; transport sensor technology; maintenance tasks in the vacuum area; replacement of wear parts such as the centre support cable; removal of the vacuum chamber cover and replacement of the seal – practical exercises, vacuum system in the ViCON software and alarm messages
- › Adjusting fibre optic sensors and reflective light barriers – practical exercises
- › Installing, removing and adjusting the vacuum transport system – practical exercises



## THE CONDENSO SERIES

In condensation soldering (or vapour phase soldering), the soldering process is carried out using hot vapour. Due to the high heat transfer, especially large or heavy boards can be processed in a stable process atmosphere. An optional vacuum module is available after the soldering process, or as a pre-vacuum for nearly void-free soldering.



## BASIC

### Learning Content

- › Safety instructions for working with and on a Condenso system
- › Function and structure of the system – process chamber, control cabinet, media supply, exhaust system and Galden cycle
- › Explanation of the Visu 2 software
- › Daily inspections to prevent unexpected failures
- › Operating and controlling the Condenso system using existing profiles

## ADVANCED

### Learning Content

- › Operation of the Condenso system in service mode via the service interface
- › System maintenance
- › Control of the Galden injection volume
- › Troubleshooting and error correction – alarm interface

## EXPERT

### Learning Content

- › Profile creation using the profiling channel and the Rehm recorder
- › Preparation of assemblies or circuit boards with temperature sensors



## BASIC

### Learning Content

- › Safety instructions for working with and on an RDS system
- › Function and structure of the system – process chamber, control cabinet and exhaust system
- › Explanation of the ViCON software

## ADVANCED

### Learning Content

- › Mechanical alignment of the system
- › Transport control
- › ViCON software
- › Troubleshooting and error correction (hardware)
- › System maintenance

## EXPERT

### Learning Content

- › Program creation and optimisation
- › ViCON software configuration (service view)



# THE RDS DRYING SYSTEMS

RDS drying systems are used for drying and curing all common adhesives, coatings, electrical pastes, potting compounds, casting resins and underfill materials. Therefore, they are used in a wide range of industries, such as semiconductor or fuel cell production.



# THE PROTECTO SERIES

With the systems of the Protecto Series, assemblies are protected by a conformal coating from aggressive environmental influences, such as moisture. They can also be used for bonding, sealing and fixing.





## BASIC

### Learning Content

- › Safety instructions for working with and on a Protecto system
- › Function and structure of the system – process chamber, control cabinet, media room and exhaust system
- › Explanation of the ViCON software
- › Daily maintenance tasks and replacing needles or nozzles – practical exercises
- › Coating change and flushing – practical exercises
- › Program creation (testing coatings on paper – no customer-specific coating programs) – practical exercises

## ADVANCED

### Learning Content

- › ViCON software
- › Explanation of applicators (jetter, piston retraction, curtain nozzle)
- › Applicator maintenance and adjustments
- › Coating change and flushing – practical exercises
- › Troubleshooting and error correction (hardware)
- › System maintenance (transport control, axis maintenance)

## EXPERT

### Learning Content

- › Program creation and optimisation
- › ViCON software configuration (service view)

# KNOW-HOW FOR MODERN INDUSTRY

Industrial companies face the challenge of optimising their processes, increasing efficiency, and simultaneously responding flexibly to market changes. Software solutions play a crucial role in this. They not only enable process automation but also provide valuable insights through data analysis, supporting decision-making at all levels.

The Rehm Academy offers a variety of training courses in the field of software. Currently, training is available on the following topics: ViCON, Hermes, MES with ROI or CFX and ProMetrics/Solderstar.

Depending on the topic, the software training can be booked as on-site training at the Rehm Thermal Systems headquarters in Blaubeuren-Seissen or as online training.



## VICON

### Learning Content

#### DISASTER RECOVERY

- › Emergency recovery of Rehm software
- › Backup solutions
- › Recovery options and scenarios
- › System restoration after SSD replacement
- › Uploading an image backup
- › Importing and exporting a ViCON backup



## HERMES

### Learning Content

- › Basics
- › Functionality
- › Operation
- › Customer benefits
- › Variants and options

## MES WITH ROI ODER CFX

### Learning Content

- › The fundamentals and importance of MES systems and the ROI/CFX standard in modern manufacturing
- › Interaction and data exchange between MES systems and other Industry 4.0 components, including ROI/CFX
- › Methods for collecting, processing and analysing production data using MES and then transmitting it via ROI/CFX
- › Using MES and ROI/CFX to optimise production processes and increase product efficiency
- › Utilising MES and ROI/CFX to improve product quality and ensure compliance with industry standards

## PROMETRICS/ SOLDERSTAR

### Learning Content

#### PROMETRICS

- › Basics of process monitoring
- › Installation and removal of hardware
- › Creation of limit curves
- › Evaluation of temperature profiles

#### SOLDERSTAR

- › Software/hardware operation
- › Creation of a soldering process
- › Temperature profiling

# YOUR WAY TO US

Are you interested in one of our training opportunities or do you have further questions? Please feel free to contact Ms. Annalena Weiß, Organisational Manager of Rehm Academy, via e-mail.

We look forward to welcoming you soon to the Rehm Academy!

## CONTACT

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