

Hamilton Robotics

Seminar catalog



HAMILTON 

Customer trainings lead to more success

Our seminars provide you with the foundations to successfully realize automation projects as well as ensure process reliability dealing with Microlab® STAR Line equipment.

Extend your know-how by attending our seminars and profit from more efficiency with the integration of automated processes inside your laboratory.

- ▶ Take the load off qualified staff by reducing time consuming and labor intensive processes
- ▶ Accelerate technical integration of your STAR system within your processes and increase user acceptance
- ▶ Reduce costs that occur due to erroneous operations and minimize breakdowns
- ▶ Increase the safety in your laboratory through qualified staff



"The noblest pleasure is the joy of understanding" (Leonardo da Vinci)



In our seminar application development you learn from experienced specialists how to successfully automate your projects by the use of the VENUS software, optimize processes according to your needs and maximize the efficiency of the robot.



The course units build on each other systematically. They consist of various learning material, presentations and exercises based on carefully selected topics and convey just the right amount of knowledge.

There will be computers available for you in our seminar rooms in Martinsried for our software-based trainings as well as a demo device for practical application.

We will keep the number of participants down to assure that our speakers have enough time to answer individual questions at any time.

We would be happy to advise you personally.

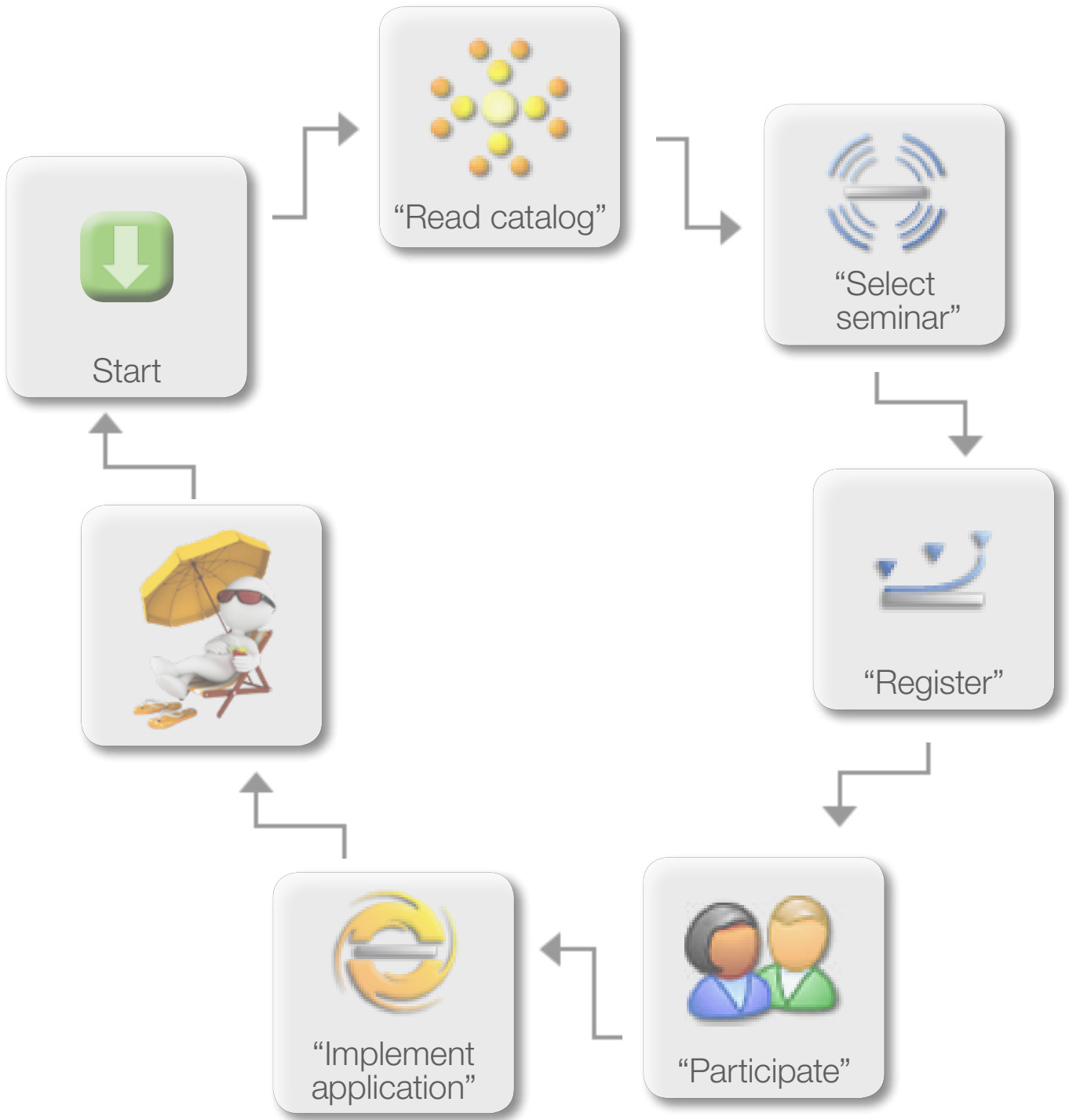


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Basic seminars

The basic seminar is the ideal entry for everyone who likes to understand, optimize or create their own methods. In small course units participants acquire adequate vocabulary and tools to successfully realize automation projects. In addition, practical comprehensive exercises provide a better understanding of the content.

The basic seminar is a requirement for further courses.

Course No.	Seminar	Duration
VT20B	Basic seminar application development	3 days

This seminar deals with the structure of the VENUS software and the procedure of engineering methods. The course material is discussed in terms of presentations combined with practical exercises. The tasks are explained in detail before the participants put them into action on the computer. The tasks consist of easy issues in the beginning while continuously becoming more and more complex. The participants learn about the software's great amount of flexibility and apply it as needed.

Requirements:

- ▶ General basic computer skills
- ▶ General set-up of Microlab STAR Line systems (participants without any knowledge on the STAR Line instruments shall get in touch with us)

Focus:

- ▶ Introduction to the VENUS software editors
- ▶ System configuration
- ▶ Creation of deck layout and method
- ▶ Embedding of libraries
- ▶ Creation of sequences and usage within a method
- ▶ Usage of Single, Easy und Smart steps
- ▶ Import of Data from Excel



Special seminars

The seminars for advanced applications transmit increased knowledge needed to successfully implement particular application tasks. Concepts to individual topics will be presented, that increase efficiency and process precision of your automation projects. Comprehensive practical exercises accompany the seminars.

Course No.	Seminar	Duration
VTM1LL	Module labware and liquid classes	1 day

This course is divided into the creation of labware and the adaption (e.g. MTP, DWP, test tubes etc.) and liquid classes (e.g. water, serum, ethanol etc.). The participants learn which information and memory formats to consider as well as which parameters to adjust and why. With this knowledge errors and inaccuracies during automated

requirements:

- ▶ Basic Seminar application development (VT20B)

Focus:

Labware:

- ▶ Checking labware definitions in the Labware Editor of the VENUS software
- ▶ Creating new labware in the editor
- ▶ Testing of labware definitions on the demo instrument
- ▶ Teaching of labware with the independent channels and with the iSwap
- ▶ Different Labware and implementation of the software

Liquid classes:

- ▶ Working with small volumes, correct aliquoting, pre and post aliquotes
- ▶ Tips & tricks
- ▶ Pipetting modi
- ▶ Creation of new liquid classes in the liquid class editor
- ▶ MAD (Monitored Air Displacement)
- ▶ ADC (Anti Droplet Control)
- ▶ TADM (Total Aspiration and Dispense Monitoring)



Course No.	Seminar	Duration
VTM1AD	Modul work lists, barcodes, data tracking and data mapping	1 day

The seminar conveys extensive knowledge in working with a variety of data in the VENUS software. The course discusses options on how to read, track and display data. The participants learn to deal with the different requirements for data handling and understand the various options and parameters of the implementation. In practical exercises the participants create methods where barcodes and work lists can be viewed and data can be recorded and tracked.

Requirements:

- ▶ Basic Seminar Application Development (VT20B)
- ▶ Interest in using the VENUS and data management software (e.g. Excel, Access, LIMS)

Focus:

- ▶ Reading work lists, creation of sequences, load and match function
- ▶ Creation of work lists and sequences using barcodes
- ▶ Sample tracking and data export (e.g. reports)

Course No.	Seminar	Duration
VTM1VE	Module variables, dialogs, creating own libraries, error-handling	1 day

In this module the participants learn the characteristics of variables and their value for the application of user dialogs as well as delivery parameter in submethods and libraries. This prevents redundant data in methods which increases clarity and reduces the error rate when making changes or optimizing. Furthermore, easy to handle test methods can be created.

Requirements:

- ▶ Basic Training Application Development (VT20B)
- ▶ Interest in using the VENUS software

Focus:

- ▶ Using variables in the VENUS software (local, task-local, global)
- ▶ Creation of customized user dialogs using variables
- ▶ Embedding submethods (e.g. a washing step) and libraries using variables
- ▶ Automated and user-defined error-handling

General information

Registration

Please register in written form. We would be glad to send you the application form via e-mail. Alternatively, you can use your own order form. The registration is binding. If a participant can't make it to a scheduled seminar appointment, an alternative appointment can be arranged up to four weeks before the day of the training. Cancelling and re-scheduling an appointment must be in written form via e-mail, mail or fax.

Arrival and accommodation

Together with the registration confirmation we send you a list of hotel recommendations. Booking a room and covering the costs for arrival and accommodation is your responsibility. Upon request we could offer you a package deal including accommodation and breakfast.

Registration confirmation

After registering you will receive a confirmation via e-mail.

Certificate

You will receive a participation certificate after completing the seminar.

Seminar documents

If provided, every participant will receive relevant seminar documents on training day. For the software based seminars each participant will have access to a computer including an up-to-date software.

Seminar time schedules

Please take note of the seminar time schedules in the seminar calendar.

Number of participants

For our software based seminars the maximum number of participants is 6 people.

Location

We welcome you to our seminars in our office in Martinsried close to Munich, Germany. You will receive information on the arrival together with the registration confirmation.

Food and drinks

Lunch, snacks and soft drinks are included in the seminar price.

Price

Please contact us: softwaretraining.rob.ch@hamilton.ch



A close-up photograph of four black Hamilton pipette tips standing vertically on a white microplate. The tips are positioned in the center of the frame, with their pointed ends resting on the surface of the plate. The background is a blurred view of the microplate's grid.

Hamilton Germany GmbH
Fraunhoferstraße 17
82152 Martinsried
Germany

Phone: +49 89 248 804 804
Email: softwaretraining.rob.ch@hamilton.ch
www.hamiltoncompany.com

For further questions about our services or offers, please contact us and we will be happy to assist.

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HAMILTON 

Web: www.hamiltonrobotics.com
Email: info.de@hamilton.ch

Hamilton Germany GmbH
Fraunhoferstr. 17
DE - 82152 Martinsried
Phone: +49 89 248 804 804