

# Training Program 2026

# Contents

Intro .....	4
Qualification through training.....	5

## A. Online Training

E-Learning .....	8
------------------	---

## B. Machine operation

Operation NC5+ .....	9
Operation EI-Exis SP NC5.....	10
Operation IntElect NC5 .....	11
Flexible sequence programming NC5.....	12
Operation multi NC5 .....	13
Operation LSR NC5.....	14
Operation MuCell.....	15

## C. Process engineering

Machine operator .....	16
Mold setter module 1 - Mold set-up .....	17
Mold setter module 2 - Process start-up.....	18
Process technology module 1 - Process optimization .....	19
Process technology module 2 - Process sampling .....	20
Process engineering LSR .....	21
Process engineering MuCell .....	22

## D. Machine technology

Machine technology Systec / EI-Exis SP .....	23
Machine technology IntElect2 .....	24
Machine technology IntElect Smart .....	25
Maintenance .....	26

## E. Automation

SDR Robot module I: Basic Course - Visual 2/3 .....	27
SDR Robot module II: Teach programming - Visual 2/3 .....	28
SDR Robot module III: Advanced Teach Programming - Visual 2/3.....	29
SAM-C module I: Basic course.....	30
SAM-C module II: Sequence programming .....	31
SAM-C Maintenance & robotics .....	32

## F. Individual training

Special seminars .....	33
------------------------	----

## General information

Contact / Registration .....	34
Conditions of participation .....	35
Hotels in Schwaig and surroundings .....	36

## For a permanently perfect Performance .

**Thank you for choosing Sumitomo (SHI) Demag.**

**Now it's your employees' turn.**

Because of course your investment must pay off quickly and reliably. From day one, for years to come. This includes not only the necessary technical performance, but also the competent and efficient operation and control of our injection molding machines by highly trained personnel. We are happy to take responsibility for this - with our experienced and competent training team. Certified trainers impart the training content in a practical, professional and personal manner. With over 125,000 machines on the market, you can be confident that we are a strong partner who will continue to support you successfully in the future. With sustainable performance in every respect.



## International training

We conduct regionally tailored training courses on machine operation, process engineering, machine technology and automation at various locations around the world. Find out about the training courses on offer in the respective country. Of course, we also conduct our training courses worldwide at your plant.



## Seminars 2026

# Qualification through training

*"An investment in knowledge still brings  
always the best interest rates. "*

(Benjamin Franklin)

### **What is training?**

Training is the systematic preparation of employees for a specific task.

Task. This includes training and further education as well as repetition and Deepening knowledge.

### **Why training?**

An investment in the training of your employees pays off in the form of better and more effective use of our products.

Our top priority is to ensure that course participants are able to transfer the knowledge they have acquired into everyday practice in the best possible way. This philosophy is reflected in every single module of our training program.

### **Individual training programs**

We support you in determining the training needs of your employees and the selection of individual training content. Develop with us a customized Training plan optimized to your needs according to the certification requirements (e.g. ISO900x / VDA 6.x).

Discuss the composition of the topics, the scheduling directly with us as well as the selection of the training location.

In addition to the training program booklet, you can also use the detailed presentation of any of our seminars on our Sumitomo (SHI) Demag website.

## Seminars 2026

# Effectiveness through a modular Training program

Our training courses are geared towards the entire production chain of injection molding production:

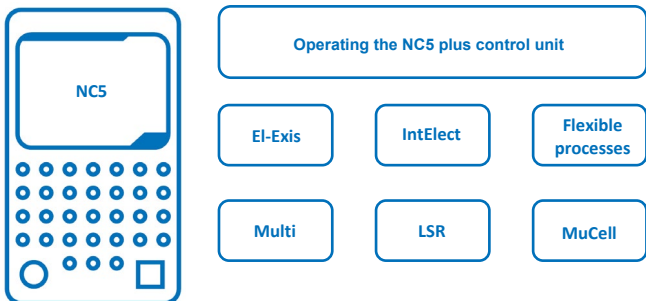
### A. Online seminars and workshops

Our online seminars cover specific topics from the entire spectrum of our training offer. The webinars provide detailed information and space for discussion.



### B. Machine operation

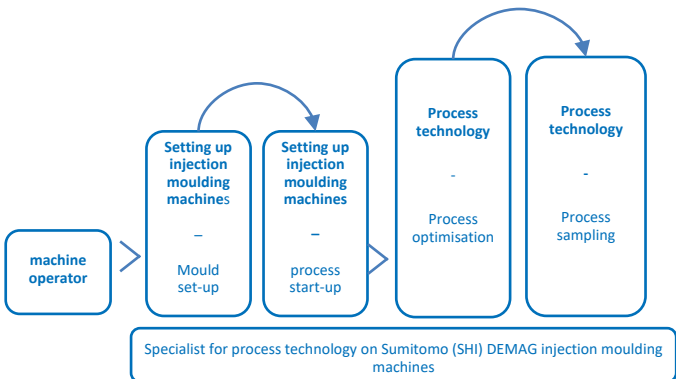
In addition to the modular seminars on the NC5 operator terminal, we also continue to offer courses on the Ergocontrol NC4 machine control system.



### C. Injection molding process engineering

Depending on the tasks of your employees, we offer a modular training concept in the field of process engineering. Here you will find courses for your machine operator, who learns about the process and how to use the injection molding machine, as well as a 2-stage training course for injection molding machine setters. Your employees who carry out process optimization and mould sampling gain further qualifications in the Process Technician I and II courses. An examination is held at the end of both the setter and process technician courses. Once a participant has passed all 4 examinations, they receive the certificate

**"Specialist for process technology on Sumitomo (SHI) DEMAG injection molding machines"**



### D. Machine technology

Our range of machine technology and maintenance seminars is tailored to the respective Systec/El-Exis, IntElect 2 and IntElect smart series



Systec / El-Exis



IntElect 2



IntElect smart

The "Machine technology for setters and operators" course is a **new addition to the program**. This seminar provides basic knowledge of injection molding machine technology and how to carry out maintenance tasks.

Machine technology for setters and operators

## E. Automation

The automation seminars cover the well-known SDR robot series with Visual 2 control as well as the new SAM-C robot series. The courses cover solutions simple tasks, program structuring and implementation options for complex production processes.

### Basic course

SDR  
SAM-C

### Teach programming

SDR  
SAM-C

### Extended Teach programming

SDR  
SAM-C

## A. Online

### Online training

	The 1-hour webinars provide competent background knowledge on applications and functions related to injection molding with Sumitomo (SHI) DEMAG injection molding machines in an open discussion round
<b>PREREQUISITE</b>	No previous knowledge required
<b>TARGET GROUP</b>	Foreman / Production Manager / Process Technician (m/f/d)
<b>TOPICS</b>	<ul style="list-style-type: none"> <li>• New machine control functions</li> <li>• Application of standard functions from the fields of:               <ul style="list-style-type: none"> <li>- Process engineering</li> <li>- machine technology</li> <li>- automation</li> </ul> </li> </ul> <p>Ask for the current topics by email: <a href="mailto:sdg.training@shi-g.com">sdg.training@shi-g.com</a></p>
<b>AIM</b>	Targeted use of new and existing functions and applications
<b>SEMINAR DURATION</b>	1 hour
<b>DATES</b>	On request

This seminar takes place on your PC in German and English.  
You will need stable Internet access, preferably LAN



## B. Operation

### Operation NC5 plus

	<p>This seminar focuses on the operation and use of the NC5 plus machine control system. The participant should become familiar with its functions and possibilities.</p>
<b>PREREQUISITE</b>	<p>Knowledge of the injection molding process; Experience with NC-controlled injection molding machines</p>
<b>TARGET GROUP</b>	<p>Setter / shift supervisor / foreman / Production Manager (m/f/d)</p>
<b>TOPICS</b>	<ul style="list-style-type: none"> <li>• Operating philosophy: Structure and basic functions of the NC5 operating terminal</li> <li>• Elementary image pages for setting up the clamping and injection unit</li> <li>• Programming the basic tool sequence and active tool protection</li> <li>• Creating injection and holding pressure holding pressure profiles</li> <li>• Optimizing and safeguarding the process parameters</li> <li>• Practical training on the machine</li> </ul>
<b>AIM</b>	<p>Safe operation of the NC5 controller</p>
<b>SEMINAR DURATION</b>	<p>2 days</p>
<b>DATES</b> Schwaig	<p>On Request</p>

The seminars held in German.

This seminar can also be held as a special seminar in Wiehe or at your premises, in English if required. Please give us a call.

## B. Advanced seminar on operation

### Advanced seminar Operation EI-Exis SP

	<p>This seminar is an extension of the "NC5 plus operation" seminar.</p> <p>The participant should become familiar with the specific functions and possibilities of the EI-Exis SP machine series.</p>
<b>PREREQUISITE</b>	Seminar "NC5 plus operation"
<b>TARGET GROUP</b>	Setter / shift supervisor / foreman / Production Manager (m/f/d)
<b>TOPICS</b>	<ul style="list-style-type: none"> <li>• Continued image pages for setting up the clamping and injection unit</li> <li>• Programming the basic tool sequence and active tool protection</li> <li>• Programming of parallel tool and machine sequences</li> <li>• Image pages and functions for optimizing the injection moulding process, taking into account the special features of the EI-Exis SP</li> <li>• Operating the measured value acquisition (MWE) and cycle time analysis</li> </ul>
<b>AIM</b>	Safe operation of the NC5 controller
<b>SEMINAR DURATION</b>	1 day
<b>DATES</b> Schwaig	On Request

The seminars held in German.

This seminar can also be held as a special seminar in Wiehe or at your premises, in English if required. Please give us a call.

## B. Advanced seminar on operation

### Advanced seminar Operation IntElect NC5 plus

	<p>This seminar is an extension of the "NC5 plus operation" seminar.</p> <p>The aim is to familiarize participants with the specific functions and possibilities of the IntElect machine series.</p>
<b>PREREQUISITE</b>	Seminar "NC5 operation"
<b>TARGET GROUP</b>	Setter / shift supervisor / foreman / Production Manager (m/f/d)
<b>TOPICS</b>	<ul style="list-style-type: none"> <li>• Continued image pages for setting up the clamping and injection unit</li> <li>• Programming the basic tool sequence and active tool protection</li> <li>• Setting clamping force levels</li> <li>• Programming of parallel tool and machine sequences</li> <li>• Setting the "activeLock" non-return valve</li> <li>• Setting "activeFlowBalance"</li> <li>• Operating the measured value acquisition (MWE)</li> <li>• Practical training on the machine</li> </ul>
<b>AIM</b>	Safe handling of the machine functions
<b>SEMINAR DURATION</b>	1 day
<b>DATES</b> Schwaig	On Request

The seminars held in German.

This seminar can also be held as a special seminar in Wiehe or at your premises, in English if required. Please give us a call.

## B. Advanced seminar on operation

### Advanced seminar Flexible tool and machine sequences NC5 plus

	This seminar is an extension of the "NC5 plus operation" seminar for the safe use of the freely programmable machine sequence.
<b>PREREQUISITE</b>	Seminar "NC5 plus operation"
<b>TARGET GROUP</b>	Setter / shift supervisor / foreman / Production Manager (m/f/d)
<b>TOPICS</b>	<ul style="list-style-type: none"> <li>• Operating philosophy of sequence programming</li> <li>• Free programming of ejector and core pulls</li> <li>• Setting machine sequences</li> <li>• Programming parallel sequences</li> <li>• Practical training on the operating terminal</li> </ul>
<b>AIM</b>	Reliable programming of tool and machine sequences
<b>SEMINAR DURATION</b>	1 day
<b>DATES</b> Schwaig	On Request

The seminars held in German.

This seminar can also be held as a special seminar in Wiehe or at your premises, in English if required. Please give us a call.

## B. Advanced seminar on operation

### Advanced seminar Operation Multi NC5 plus

This seminar is an extension of the "NC5 plus operation" seminar on safe operation and use the "Multi" multi-component machine.	
<b>PREREQUISITE</b>	Seminar "NC5 plus operation"
<b>TARGET GROUP</b>	Setter / shift supervisor / foreman / Production Manager (m/f/d)
<b>TOPICS</b>	<ul style="list-style-type: none"> <li>• Operating philosophy of sequence programming</li> <li>• Free programming of ejector and core pulls</li> <li>• Functions of the injection units</li> <li>• Setting machine sequences</li> <li>• Programming of parallel injection sequences</li> <li>• Programming rotary functions</li> <li>• Practical training on the operating terminal</li> </ul>
<b>AIM</b>	Safe handling of the machine functions
<b>SEMINAR DURATION</b>	1 day
<b>DATES</b> Schwaig	On Request

The seminars held in German.

This seminar can also be held as a special seminar in Wiehe or at your premises, in English if required. Please give us a call.

## B. Advanced seminar on operation

### Advanced seminar Operation LSR NC5 plus

	This seminar is an extension of the "NC5 plus operation" seminar for safe operation and use of the "LSR" screen pages.
<b>PREREQUISITE</b>	Seminar "NC5 plus operation"
<b>TARGET GROUP</b>	Setter / shift supervisor / foreman / Production Manager (m/f/d)
<b>TOPICS</b>	<ul style="list-style-type: none"> <li>• Operating philosophy of sequence programming</li> <li>• Settings for the shut-off nozzle</li> <li>• Settings for the brush unit</li> <li>• Functions of the injection unit</li> <li>• Programming the inputs and outputs</li> <li>• Programming the evacuation and ventilation tool functions</li> <li>• Practical training on the operating terminal</li> </ul>
<b>AIM</b>	Safe handling of the machine functions
<b>SEMINAR DURATION</b>	1 day
<b>DATES</b> Schwaig	On Request

The seminars held in German.

This seminar can also be held as a special seminar in Wiehe or at your premises, in English if required. Please give us a call.

## B. Advanced seminar on operation

### Advanced seminar Operation MuCell NC5 plus

	This seminar is an extension of the "NC5 plus operation" seminar for the safe operation and use of the "MuCell" screen pages.
<b>PREREQUISITE</b>	Seminar "NC5 plus operation"
<b>TARGET GROUP</b>	Setter / shift supervisor / foreman / Production Manager (m/f/d)
<b>TOPICS</b>	<ul style="list-style-type: none"> <li>• Operating philosophy of sequence programming</li> <li>• Settings for the shut-off nozzle</li> <li>• Functions of the injection unit</li> <li>• Programming the tool functions</li> <li>• Programming the "MuCell" image pages</li> <li>• Practical training on the operating terminal</li> </ul>
<b>AIM</b>	Safe handling of the machine functions
<b>SEMINAR DURATION</b>	1 day
<b>DATES</b> Schwaig	On Request

The seminars held in German.

This seminar can be held as a special seminar at your premises, also in English if required. Please give us a call.

## C. Process engineering

### Machine operator

	<p>This seminar deals with the handling of injection molding machines that are in production. The participant learns the process sequence and the structure and function of the production equipment. He recognizes and evaluates the causes of malfunctions and can safely bring the machine and the robot back into production.</p>
<b>PREREQUISITE</b>	No previous knowledge required
<b>TARGET GROUP</b>	employee (m/f/d)
<b>TOPICS</b>	<ul style="list-style-type: none"> <li>• Injection molding machine design</li> <li>• Cycle sequence</li> <li>• Safety-relevant elements</li> <li>• Alarm messages and alarm responses</li> <li>• Stopping and starting the machine</li> <li>• Basic position of the robot</li> <li>• Safety and hazards when handling injection molding machines</li> <li>• Practical training on the machine</li> </ul>
<b>AIM</b>	Safe handling of Sumitomo (SHI) Demag injection molding machines in production
<b>SEMINAR DURATION</b>	2 days
<b>DATES</b> Schwaig	On Request

The seminars held in German.

This seminar can also be held as a special seminar in Wiehe or at your premises, in English if required. Please give us a call.



## C. Process engineering

### Mold setter module I Mold set-up

	Introduction to injection molding technology in theory and practice. In intensive, practical training, the participant learns how to set up an injection mold and how to make the necessary entries for the clamping unit in the NC5 plus machine control system.
<b>PREREQUISITE</b>	No previous knowledge required
<b>TARGET GROUP</b>	Machine Operator / Setter (m/f/d)
<b>TOPICS</b>	<ul style="list-style-type: none"> <li>• Basics of injection molding technology</li> <li>• Injection molding machine design</li> <li>• Structured set-up train</li> <li>• Setting up the injection mold</li> <li>• Operating the NC5 plus control unit</li> <li>• Setting up the clamping unit</li> <li>• Safety and hazards when setting up the machine</li> <li>• Final test</li> <li>• Practical training on the machine</li> </ul>
<b>AIM</b>	Independent set-up and operation of a Sumitomo (SHI) Demag injection molding machine
<b>SEMINAR DURATION</b>	3 days
<b>DATES</b> Schwaig	On Request

The seminars held in German.

This seminar can be held as a special seminar at your premises, also in English if required. Please give us a call.

## C. Process engineering

### Mold setter module II Process start-up

	In-depth knowledge of injection molding technology in theory and practice. In intensive, practical training, the participant learns how to prepare the production chain, set, evaluate and adjust the injection molding process. He evaluates the quality requirements and prepares the documentation of the set processes using the corresponding image pages of the NC5 plus machine control system.
<b>PREREQUISITE</b>	Setting up injection molding machines Module I - Tool set-up
<b>TARGET GROUP</b>	Machine Operator / Setter (m/f/d)
<b>TOPICS</b>	<ul style="list-style-type: none"> <li>• Design of the injection molding machine</li> <li>• Structure and properties of plastics</li> <li>• Tool technology</li> <li>• Process preparation</li> <li>• Operating the NC5 plus control unit</li> <li>• Basic setting of the injection molding process</li> <li>• Setting up the injection unit</li> <li>• Starting up the machine</li> <li>• Final test</li> <li>• Practical training on the machine</li> </ul>
<b>AIM</b>	Independent start-up and operation of a Sumitomo (SHI) Demag injection molding machine
<b>SEMINAR DURATION</b>	3 days
<b>DATES</b> Schwaig	On Request

The seminars held in German.

This seminar can be held as a special seminar at your premises, also in English if required. Please give us a call.

## C. Process engineering

### Process Technology Module I Process optimization

	This seminar focuses on recognizing the correlations between injection moulding parameters, as well as faults in injection moulded parts and their causes.
<b>PREREQUISITE</b>	Setting up injection molding machines Module II - Process start-up
<b>TARGET GROUP</b>	Setter / shift supervisor / foreman / quality assurance employee / production manager (m/f/d)
<b>TOPICS</b>	<ul style="list-style-type: none"> <li>• Behavior of thermoplastic polymer melts</li> <li>• Hot runner technology</li> <li>• Basic setting of the process parameters</li> <li>• Influence of the parameters on part quality</li> <li>• Optimizing the cycle time</li> <li>• Operation of the necessary NC5 screen pages</li> <li>• Analysis of energy consumption</li> <li>• Practical exercises on the machine</li> <li>• Final test</li> </ul>
<b>AIM</b>	Detecting faults in injection molded parts developing solutions in stable processes
<b>SEMINAR DURATION</b>	3 days
<b>DATES</b> Schwaig	On Request

The seminars held in German.

This seminar can be held as a special seminar at your premises, also in English if required. Please give us a call.

## C. Process engineering

### Process Technology Module II Process sampling

	<p>The participant learns the structured procedure for tool sampling and calculates the design of the machine.</p> <p>The process curves are used to analyze, evaluate and improve the set process.</p>
<b>PREREQUISITE</b>	Process Technology Module I - Process Optimization
<b>TARGET GROUP</b>	Setter / shift supervisor / foreman / quality assurance employee / production manager (m/f/d)
<b>TOPICS</b>	<ul style="list-style-type: none"> <li>• Structured tool sampling</li> <li>• Creating checklists</li> <li>• Calculation of the machine design</li> <li>• Operating the NCS plus screen pages</li> <li>• Analysis with process curves</li> <li>• Practical exercises on the machine</li> <li>• Final test</li> </ul>
<b>AIM</b>	Safe and systematic approach to the sampling of new processes.
<b>SEMINAR DURATION</b>	2 days
<b>DATES</b> Schwaig	On Request

The seminars held in German.

This seminar can be held as a special seminar at your premises, also in English if required. Please give us a call.

## C. Process engineering

### LSR process technology

	Introduction to the process technology of processing liquid silicone rubbers
<b>PREREQUISITE</b>	<p>Good knowledge of the injection molding process</p> <p>Experience with NC5-controlled injection molding machines</p>
<b>TARGET GROUP</b>	Setter / shift supervisor / foreman (m/f/d)
<b>TOPICS</b>	<ul style="list-style-type: none"> <li>• Properties and processing of silicones</li> <li>• Process management</li> <li>• Tool technology</li> <li>• Machine technology</li> <li>• Mixing and dosing the components</li> <li>• Practical training on the machine</li> </ul>
<b>AIM</b>	Confident handling of LSR process technology
<b>SEMINAR DURATION</b>	2 days
<b>DATES</b> Schwaig	On Request

The seminars held in German.

This seminar can be held as a special seminar at your premises, also in English if required. Please give us a call.

## C. Process engineering

### MuCell process technology

	Introduction to the process engineering of processing foamed materials
<b>PREREQUISITE</b>	<p>Good knowledge of the injection molding process</p> <p>Experience with NC5-controlled injection molding machines</p>
<b>TARGET GROUP</b>	Setter / shift supervisor / foreman (m/f/d)
<b>TOPICS</b>	<ul style="list-style-type: none"> <li>• Process control during foaming</li> <li>• Tool technology</li> <li>• Machine technology</li> <li>• Practical training on the machine</li> </ul>
<b>AIM</b>	Confident handling of the MuCell process technology
<b>SEMINAR DURATION</b>	2 days
<b>DATES</b> Schwaig	On Request

The seminars held in German.

This seminar can be held as a special seminar at your premises, also in English if required. Please give us a call.

## D. Machine technology

### Machine technology Systec / El-Exis SP

This seminar provides knowledge about the technology of the hydraulic and hybrid injection molding machines Systec and El-Exis SP and their maintenance.

#### PREREQUISITE

Basic knowledge of hydraulics, mechanics and electrics

#### TARGET GROUP

Maintenance and service personnel

#### TOPICS

- Operating the NC5 control unit
- Hydraulic, mechanical and electrical design of the injection molding machines
- Reading hydraulic and circuit diagrams
- Electrical control of hydraulic components
- Interaction of mechanics, hydraulics and controls
- Calibration of pumps
- Troubleshooting
- Creating and editing maintenance tasks in the NC5 controller
- Wear detection
- Carrying out maintenance
- Practical training

#### AIM

Safe handling of injection molding machines of the Systec and El-Exis SP series, independent error analysis, troubleshooting and maintenance

#### SEMINAR DURATION

4 days

#### DATES

Schwaig

On Request

The seminars held in German.

This seminar can also be held in English as a special seminar on request. Please give us a call.

## D. Machine technology

### Machine technology IntElect 2

	This seminar provides knowledge about the technology of the all-electric injection molding machine IntElect 2 and its maintenance.
<b>PREREQUISITE</b>	Basic knowledge of electrical engineering and the mechanical functions of an injection molding machine
<b>TARGET GROUP</b>	Maintenance and repair personnel (m/f/d)
<b>TOPICS</b>	<ul style="list-style-type: none"> <li>• Operation of the NC5 control unit,</li> <li>• Use of specific image pages</li> <li>• Operation of the control system</li> <li>• Frequency-controlled drives</li> <li>• Interaction of mechanics drives and controls</li> <li>• Series-specific special features</li> <li>• Handling of the electrical diagram and Use of the NC5 service pages operating terminal for troubleshooting and troubleshooting</li> <li>• Creating and editing maintenance tasks Maintenance tasks in the NC5 controller</li> <li>• Wear detection</li> <li>• Carrying out maintenance</li> <li>• Practical training</li> </ul>
<b>AIM</b>	Safe handling of the injection machine IntElect 2, independent fault analysis, rectification and maintenance
<b>SEMINAR DURATION</b>	4 days
<b>DATES</b> Schwaig	On Request

The seminars held in German.

This seminar can also be held in English as a special seminar on request. Please give us a call.



## D. Machine technology

### Machine technology IntElect smart

	This seminar provides knowledge about the technology of the all-electric injection molding machine IntElect smart and its maintenance.
<b>PREREQUISITE</b>	Basic knowledge of electrical engineering and the mechanical functions of an injection molding machine
<b>TARGET GROUP</b>	Maintenance and repair personnel (m/f/d)
<b>TOPICS</b>	<ul style="list-style-type: none"> <li>• Operation of the NC5 control unit,</li> <li>• Use of specific image pages</li> <li>• Operation of the control system</li> <li>• Frequency-controlled drives</li> <li>• Interaction of mechanics drives and controls</li> <li>• Series-specific special features</li> <li>• Handling of the electrical diagram and Use of the NC5 service pages operating terminal for troubleshooting and troubleshooting</li> <li>• Creating and editing maintenance tasks Maintenance tasks in the NC5 controller</li> <li>• Wear detection</li> <li>• Carrying out maintenance</li> <li>• Practical training</li> </ul>
<b>AIM</b>	Safe handling of the IntElect Smart injection molding machine, independent error analysis, troubleshooting and maintenance
<b>SEMINAR DURATION</b>	4 days
<b>DATES</b>	On request

The seminars held in German at your premises.

This seminar can also be held in English as a special seminar on request. Please give us a call.

## D. Machine technology

### Maintenance

	This seminar provides basic knowledge about the technology of injection molding machines and the execution of maintenance tasks.
<b>PREREQUISITE</b>	Basic technical understanding, initial experience with injection molding machines
<b>TARGET GROUP</b>	Machine operator / setter / maintenance personnel (m/f/d)
<b>TOPICS</b>	<ul style="list-style-type: none"> <li>• Basics of the NC5 controller</li> <li>• Use of specific image pages</li> <li>• Interaction of mechanics, Drives and controls</li> <li>• Handling the electrical diagram</li> <li>• Use of the NC5 service pages operating terminal for troubleshooting and troubleshooting</li> <li>• Carrying out individual repair and maintenance tasks</li> <li>• Practical training</li> </ul>
<b>AIM</b>	Acquire basic knowledge of the technical design of injection moulding machines, recognize and rectify simple faults, carry out maintenance tasks.
<b>SEMINAR DURATION</b>	2 days
<b>DATES</b> Schwaig	On Request

The seminars held in German.

This seminar can also be held in English as a special seminar on request. Please give us a call.

## E. Automation

### SDR Robot module I: Basic course Visual 2/3

	<p>This seminar provides an overview of the operating philosophy and the basic functions of the 3- to 5-axis robotic devices with Visual 2 control, as well as the application and programming options of the "Simple Pick &amp; Place" wizard for creating simple removal sequences.</p>
<b>PREREQUISITE</b>	<p>Experience with CNC-controlled robotic devices, knowledge of the injection molding machine process</p>
<b>TARGET GROUP</b>	<p>Machine operator / setter / programmer (m/f/d)</p>
<b>TOPICS</b>	<ul style="list-style-type: none"> <li>• Operating philosophy of the Visual 2 control system</li> <li>• Starting and stopping the machine cycle when operating with robotic device</li> <li>• Handling of the "simple removal module" for "simple pick &amp; place" applications</li> <li>• Signal exchange between injection molding machine and robotic device according to Euromap 67</li> <li>• Adaptation of the program-specific cycle parameters</li> <li>• Programming of a simple removal cycle with "Simple Pick &amp; Place" applications</li> <li>• Practical training</li> </ul>
<b>AIM</b>	<p>Getting to know the Visual 2 functions; programming a simple removal process with the "Simple Pick &amp; Place" wizard</p>
<b>SEMINAR DURATION</b>	<p>2 days</p>
<b>DATES</b> Schwaig	<p>On Request</p>

The seminars held in German.

This seminar can also be held in English as a special seminar on request. Please give us a call.

## E. Automation

### SDR Robot module II: Teach programming Visual 2/3

	<p>The focus of the seminar is the introduction to programming 3- to 5-axis robotic devices with Visual 2 control</p> <p>The participant should be familiarized with the robotic device and its functions.</p>
<b>PREREQUISITE</b>	Basic knowledge of the SDR robot series with Visual 2 controller (Module I)
<b>TARGET GROUP</b>	Setter, programmer (m/f/d)
<b>TOPICS</b>	<ul style="list-style-type: none"> <li>• Deepening the handling and operation of the robotic device</li> <li>• Handling the "simple removal module"</li> <li>• Signal and data exchange / backup between injection molding machine and robotic device</li> <li>• Getting started with free programming</li> <li>• Creation of a simple program sequence with the text editor</li> <li>• Setting the cycle parameters</li> <li>• Configuration of the most important cycle options</li> <li>• Practical training on the robotic device</li> </ul>
<b>AIM</b>	<p>Creation and modification of a simple removal program in "free programming</p> <p>Safe handling of the robotic device.</p>
<b>SEMINAR DURATION</b>	3 days
<b>DATES</b> Schwaig	On Request

The seminars held in German.

This seminar can also be held in English as a special seminar on request. Please give us a call.

## E. Automation

### SDR Robot module III: Advanced teach programming Visual 2/3

	Building on the topics covered in Module 2, this course explains the extended programming options of the SDR CNC control of 3- to 5-axis robotic devices and puts them into practice. The scope of application ranges from simple removal programs to the implementation of complex production tasks.
<b>PREREQUISITE</b>	Programming knowledge of the Visual 2 control system (Module II)
<b>TARGET GROUP</b>	Setter / Programmer (m/f/d)
<b>TOPICS</b>	<ul style="list-style-type: none"> <li>• Structure and structuring options for teach programs</li> <li>• Creation of the program sequence with the text editor</li> <li>• Programming of branches and partial and subprograms</li> <li>• Programming a storage scheme</li> <li>• Integration of peripheral components into the Program schedule</li> <li>• Optimization of the cycle time</li> <li>• Configuration of the cycle options</li> <li>• Practical training on the robotic device with injection molding machine simulator</li> </ul>
<b>AIM</b>	Independent creation of complex teaching programs; optimization of program sequences
<b>SEMINAR DURATION</b>	2 days
<b>DATES</b> Schwaig	On Request

The seminars held in German.

This seminar can also be held in English as a special seminar on request. Please give us a call.

## E. Automation

### SAM-C Robot module I: Basic course

	This seminar provides an overview of the operating philosophy and the basic functions of the 3- to 5-axis robotic devices of the SAM-C series with NCS control.
<b>PREREQUISITE</b>	Experience with CNC-controlled robotic devices, knowledge of the injection molding machine process
<b>TARGET GROUP</b>	Machine operator / setter / programmer (m/f/d)
<b>TOPICS</b>	<ul style="list-style-type: none"> <li>• Operating philosophy of the SAM-C robot controller</li> <li>• Starting and stopping the machine cycle during operation with robotic device</li> <li>• Signal exchange between injection molding machine and Robotic device according to Euromap 67</li> <li>• Adaptation of the process-relevant parameters</li> <li>• Practical training</li> </ul>
<b>AIM</b>	Getting to know the robot functions
<b>SEMINAR DURATION</b>	3 days
<b>DATES</b> Schwaig	On Request

The seminars held in German.

This seminar can also be held in English as a special seminar on request. Please give us a call.

## E. Automation

### SAM-C Robot module II: Sequential programming

The focus of the seminar is the introduction to programming the 3- to 5-axis robotic devices of the SAM-C series with NC5 control  
Participants will be familiarized with the robotic device and its functions.

#### PREREQUISITE

Basic knowledge of the SAM-C robot series with NC5 controller (Module I)

#### TARGET GROUP

Setter / Programmer (m/f/d)

#### TOPICS

- Deepening the handling and operation of the SAM-C robotic device
- Signal and data exchange / backup between injection molding machine and robotic device
- Getting started with free programming
- Creating a simple program sequence with the sequence editor (graphical) for the overall startup and the sequence editor (icon) for partial sequences
- Setting and adjusting the process-relevant parameters
- Configuration of the work and safety areas
- Practical training on the robotic device

#### AIM

Creation of a program run;  
Safe handling of the robotic device.

#### SEMINAR DURATION

3 days

#### DATES Schwaig

On Request

The seminars held in German.

This seminar can also be held in English as a special seminar on request. Please give us a call.

## E. Automation

### SAM-C Maintenance & robotics

	This seminar provides basic knowledge of SAM-C linear robot technology and the performance of maintenance tasks.
<b>PREREQUISITE</b>	Basic technical understanding
<b>TARGET GROUP</b>	Machine operators / setters / maintenance personnel (m/f/d)
<b>TOPICS</b>	<ul style="list-style-type: none"> <li>• Operating philosophy of the SAM-C Robot control system</li> <li>• Interaction of mechanics, drives, and control system</li> <li>• Handling the electrical diagram</li> <li>• Using the service pages of the NC5 operating terminal for troubleshooting.</li> <li>• Performing individual repair and maintenance tasks</li> <li>• Practical training</li> </ul>
<b>AIM</b>	Acquiring basic knowledge of the technical structure of the SAM-C linear robot, recognizing and rectifying simple faults, performing maintenance tasks.
<b>SEMINAR DURATION</b>	2 days
<b>DATES</b> Schwaig	On Request

The seminars held in German.

This seminar can also be held in English as a special seminar on request. Please give us a call.



## F. Individual training

### Special seminars

---

For various reasons, a special seminar at your premises or directly at our plants in Schwaig or Wiehe may also be appropriate.

You can determine the course program and the date individually in consultation with us. These seminars can also be held in English.

---

#### TOPICS

Special seminars can include topics from our training program as well as topics specifically tailored to your requirements.

- Operation of the Ergocontrol NC4, NC5 and NC5 plus controller generations
- Process engineering multi-color / multi-component injection molding
- Maintenance, electrics and hydraulics, Ergocontrol NC4, NC5 and NC5 plus operator terminal,
- As well as operation and programming of SDR 3 to 5-axis robotic devices with Visual 2 control
- As well as operation and programming of SAM-C 3- to 5-axis robotic devices with NC5 controller
- Machine technology IntElect 2, IntElect smart

Please talk to us. We will be happy to coordinate the content and dates - also on Saturdays - for a special seminar with you.

---

## General information

### Contact person / Registration

Do you have questions about seminar content, seminar procedures organization, we are at your disposal at any time.  
gladly at your disposal.

#### CONTACT PERSON

Mrs. Karola Schmid  
Phone: +49 911 5061-444  
E-mail: [sdg.training@shi-g.com](mailto:sdg.training@shi-g.com)

#### LOCATION Schwaig plant

Altdorfer Str. 15  
90571 Schwaig  
Phone: +49 911 5061-0

#### REGISTRATION

Please register as early as possible (at the latest two weeks before the start of the seminar), as the number of participants is limited for all seminars.

#### Your options

You use our "Seminar registration" form, which enclosed with the training program, or you can contact quickly and easily via the Internet:

[www.sumitomo-shi-demag.eu/de/service/training](http://www.sumitomo-shi-demag.eu/de/service/training)

With the confirmation of your registration you will receive further details.

#### PERFORMANCE

##### The course fee includes

- Course materials, tailored to the respective course
- Practical exercises on special training machines
- Lunch
- Drinks during breaks

#### NOTE

We ask you to wear suitable work clothing.

## General information

# Conditions of participation

### CANCELLATION

If a booking is canceled within 10 days before the start of the course, the flat-rate fee is 100% unless a replacement participant is named. We reserve the right to cancel, postpone or combine courses if the number of participants is too low or in cases of force majeure.

### TERMS OF PAYMENT

All prices are subject to VAT.

The amount of the costs can be found in the respective Seminar contents.

In addition, our General Terms and Conditions for Deliveries and services (as at 01.01.2025).

### ACCOMMODATION

- Please make your room reservation directly at the hotel. You will find a selection of hotels near the training venue on the next page.
  - Accommodation costs are to be borne by the participants themselves and are not included in the course fees.
  - Reservations, changes or cancellations of the Hotels must be booked by the participant.
  - Costs incurred as a result of canceling the hotel reservation are not assumed by Sumitomo (SHI) Demag.
- will not be assumed.

The personal data that you provide to us as part of this registration will only be used to process your registration and participation. It will not be passed on to third parties. You have the right to withdraw your consent at any time with effect for the future. In this case, your personal data will be deleted immediately. Your personal data will be deleted if you withdraw your consent to storage. This also happens if storage is not permitted for other legal reasons. You can obtain information about the personal data stored about you at any time. Detailed information on data protection and the handling of personal data can be found in the general privacy policy of our website.

## General information

### Hotels in Schwaig and the surrounding area

#### SCHWAIG

##### Schwaiger Hof

90571 Schwaig,  
Röthenbacher Straße 1b  
Phone: +49 911 506 989 0  
E-mail: sh@avenon.de  
[www.hotel-schwaigerhof.de](http://www.hotel-schwaigerhof.de)  
Distance: 0.3 km

##### At the Steinberg

90552 Röthenbach,  
Werner-von-Siemens-Str. 25c  
Phone: +49 911 995 75-0  
E-mail: as@avenon.de  
[www.hotel-am-steinberg.de](http://www.hotel-am-steinberg.de)  
Distance: 3 km

##### Löhner

91227 Diepersdorf,  
Diepersdorfer Hauptstraße 13  
Phone: +49 9120 186 0  
[www.landgasthof-loehner.com](http://www.landgasthof-loehner.com)  
Distance: 9 km

##### Green tree

91227 Diepersdorf, Diepersdorfer Hauptstraße 32  
Phone: +49 9120 210  
[www.gruenerbaum-schorr.de](http://www.gruenerbaum-schorr.de)  
Distance: 9 km

##### White steed

90571 Behringsdorf,  
Schwaiger Street 2  
Phone: +49 911 506 988 0  
E-mail: info@weissesross.de  
[www.weissesross.de](http://www.weissesross.de)  
Distance: 1.5 km

# Notes

All details and information in this brochure have been compiled by us with the utmost care.  
Although we have compiled this information with the utmost care, we cannot guarantee its accuracy.

**Sumitomo (SHI) Demag Plastics  
Machinery GmbH Schwaig plant**  
Altdorfer Str. 15  
90571 Schwaig  
Phone: +49 911 5061-0

**Sumitomo (SHI) Demag Plastics  
Machinery GmbH Rossleben-Wiehe plant**  
Donndorfer Str. 3  
06571 Rossleben-Wiehe  
Phone: +49 34672 97-0

**[www.sumitomo-shi-demag.eu](http://www.sumitomo-shi-demag.eu)**

