TRAINING

Programming Training



Goal

This course enables the participant to create typical industrial applications in the VAL 3 programming language or to competently manage and modify programs from existing installations.

Participants

Persons involved in the programming of robot systems.

Please note!

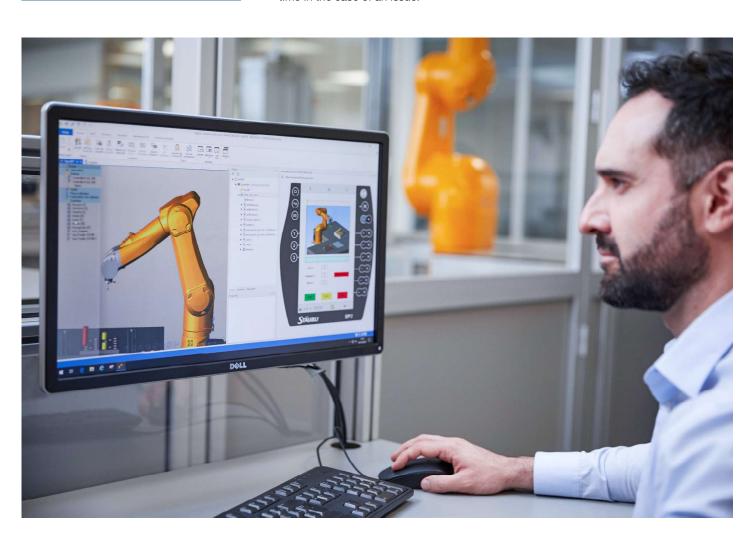
The practical skills to safely operate Stäubli robots are a prerequisite. As preparation for this course, especially for CS9, it is strongly recommended to have previously attended the basic training module.

Benefits for the participant

- The course facilitates confident operation and the skills needed to switch to application development with VAL 3.
- The participant learns to use the Stäubli Robotics Suite software for programming and troubleshooting.
- The participant will acquire the ability
 to implement robot movements in a
 maintenance and wear-friendly manner,
 and thereby avoiding excessive load on
 the robot, which can lead to increased
 numbers of malfunctions and failures at
 an early stage.
- Efficient fault management in the VAL 3 application to clearly identify the root cause of the problem and enable a prompt restart ensuring minimal downtime in the case of an issue.

Prerequisites

- Confident use of a PC and knowledge of Windows applications
- General understanding of the logical structure of programs in a higher programming language such as
 Basic, Pascal, C or Java with regard for example, to: variable management, program loops, querying of conditions, etc.
- Handling of the Stäubli pendant, teaching of points





VAL 3 for CS8C

Prerequisites

none

Recommendation

Preparatory participation in the basic training CS8C is recommended.

VAL 3 for CS9

Prerequisites

Basic training CS9

VAL 3 Update CS9

Prerequisites

Programming training CS8C or CS9

Contents

- Safety instructions
- · Creating and editing programmes
- Robot movements
- Debugging
- · Digital inputs and outputs
- · Structured programming
- Multitasking
- Three-dimensional arrays
- Collections
- User-defined structures
- Online Debugger
- I/O management
- Additional features
- Presentation of Stäubli software products, Stäubli Robotics Suite and its components
- · Programming of the user page

Contents

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- The contents of the update training

Contents

- User Page Designer
- Data Binding
- Security functions of CS9 compared to those of VAL 3
- CS9 Emulator
- Teach pendant SP2

Goal

Getting to know the new features of the CS9 operating system version 8.x

Duration: 4.5 days

Course number: 8.3.1

Location: Bayreuth

Duration: 4.5 days Course number: 9.3.1

Location: Bayreuth, Asten, Hannover

Duration: 2.5 days

Course number: 9.3.2

Location: Bayreuth, Asten, Hannover