

TRAINING

Operating & programming 1

Target Group:	Operator
Learning Objects:	The aim of the seminar is to acquire all the skills required to safely operate a Reis robot system and to change and adjust positions and individual parameters.
Requirements:	PC skills
Duration:	3 days
Content Operating:	

Basics of Robot Control

- Safety Devices and Control Elements of the Robot System
- Booting up the Controller
- User Login

Manual Operation

- Coordinate Systems
- Tool Data and Tool Center Point (TCP)
- Robot Movement in Manual Mode
- Joint Mode
- Cartesian Mode
- Display and Execute Operation Macros

Program Execution

- Directory Structure
- Program Types, Program Flow
- Program Selection
- Start/Stop in Automatic Mode
- Start/Stop in Test Mode

Program Corrections

- Edit Programmed Commands
- Move to Individual Programmed Positions
- Correct Programmed Positions
- Resume Interrupted Program

Referencing and Safety

- Check Reference Position
- Verify Safety Controller

Data Backup

- Backup Individual Programs
- Full Backup

Controller Utilities

- Display of Input and Output Signals
- Display of Actual Robot Values
- Display of Variable Contents

Content Programming 1:**Creating a new program / directory**

- Directory structures and program structures
- Program and command groups
- Command input

Changes in existing programs

- Inserting and deleting commands
- Restoring deleted commands
- Copying and moving individual lines or blocks
- Invalidating/validating commands and blocks

Tool data

- Change and activate tool data
- Define new tool
- Tool measurement

Programming motion sequences

- Saving positions
- Motion types: PTP, linear, ZIRK, SPLINE
- Speeds and accelerations
- Program calls
- Calling sub and main programs

Program control commands

- Absolute and conditional jump
- Waiting time
- Signal exchange between robot controller and peripherals
- Organization of inputs and outputs
- Switching and querying signals