



Weld your way.

# Seminar series Robot programming

## Robot programming Advanced Course

This seminar is for robot programmers. Get familiar with further application possibilities to edit, correct and maintain the robot programs. Among others, you learn everything about the coordinate system, the Cartesian shifting of spatial points, the synchronisation of external axes, transformation and mirroring of user programs and many more customer-related options.

### Content

- Synchronise the external robot axes.
- Use different coordinate systems (base-, hand-, workpiece coordinate system)
- Transform, mirror and shift programs online.
- Organise customer-related options in the user program.
- Calculate with variables.
- Generate a welding program with variables and external axes.
- Create a user program incl. options.
- Generate and export working points via program commands.
- Program the tactile gas nozzle and the arc sensor.

# QR-TR-P2



#### Seminar period

5 days

#### Seminar times

**Participants** 

Monday: 09:00 - 16:30 Tuesday to Thursday: 08:00 - 16:30 Friday: 08:00 – 12:00 a.m.

Small groups up to a maximum of 6 persons

# Target group

- Users who have to edit, correct and maintain the robot programs
- Robot programmers

### **Conditions**

Completion of the course: QR-TR-P1 Programming Basic Course