

## 1. Topic: Basic and Offline Programming (OLP)

The seminar teaches the basic functions of the software.

The contents range from assigning and projecting welding spots on components, checking accessibility and collisions to creating bypass points and preparing the programs for the real robot. The seminar will cover robot-guided welding, external welding and robots with integrated additional axes. Depending on customer requirements, the focus of the robot part can be placed on different manufacturers (e.g. ABB, Fanuc, KUKA). The setup of the respective RCS modules for the selected robot manufacturer is also discussed.

By combining the basic functions as well as the knowledge of creating point operations, the participants get to know the functional range of Process Simulate in detail.

**For:**

All those who want to get started or improve their skills with Process Simulate.

**Prerequisites:**

None, knowledge of robots would be an advantage.

**Learning goals:**

Functional basics and introduction to working with Process Simulate using a project example.

Understanding the data model in Process Simulate and learning the basic program functionalities.

Acquire knowledge in modelling and kinematisation of resources (external traversing axis, welding gun, gripper, ...), creation of a simulation for welding robots with head tool and robot on external traversing axis with gripper and stationary welding gun. Procedure for offline programming (OLP) with Process Simulate.