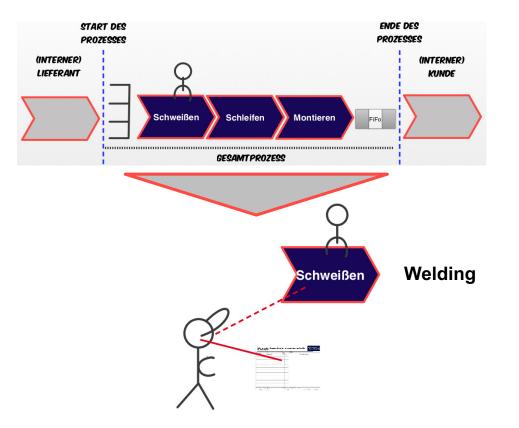


What is the sketch useful for?

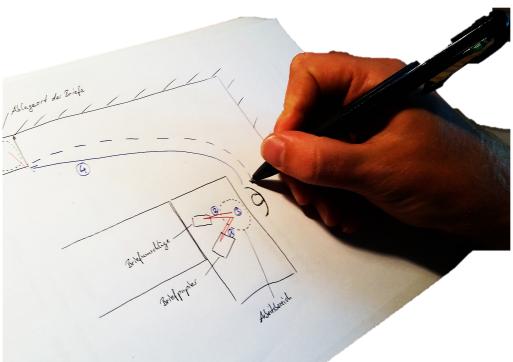




- Process understanding = key to success
- Build understanding through sketching.
- Sketch is the basis for in-depth observations



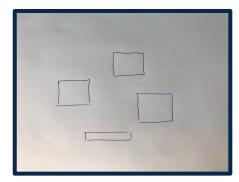
- Entry process understanding = movements
- Overview through the following elements:
 - **1. premises** & environment of the process
 - 2. working position of the employee
 - **3.** walking or gripping paths
 - 4. return path to the working position
- Elements visualised from a "bird's eye view



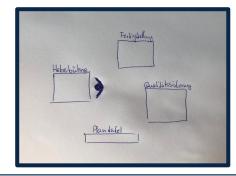
Sketch the movements yourself to build your understanding of the process

Work content sheet 3 from 12





Hebe bühne	
Qualitätssilerung	
Plan dalel	



- At the beginning: observe few cycles
- Visualise the working environment of the process
- Draw premises on **blank sheet of** paper
- Representing a real working environment
 Important:

Visualise all places relevant for the process !

- Label areas.
- Working position to start the cycle:



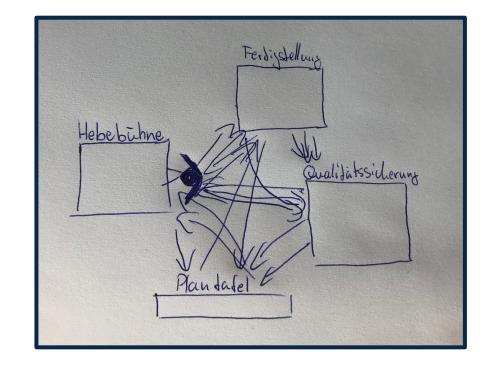
• Draw in the **paths of** the employee.

How are the movements visualised in the sketch?

- Observe the process and draw **paths**.
- Distinguish between walking and reaching paths.
- Employees working at several workplaces: Walking routes at and between workplaces Overview of the routes
- Visualise walking routes with arrow in walking direction
- Activity predominantly at a workplace:
 Visualise gripping paths at the workplace.
- Gripping paths marked with a line
- Depending on the focus: First analyse walking paths and then gripping paths.
- IMPORTANT: Record every single movement from start to finish.
 Every single way the employee moves!

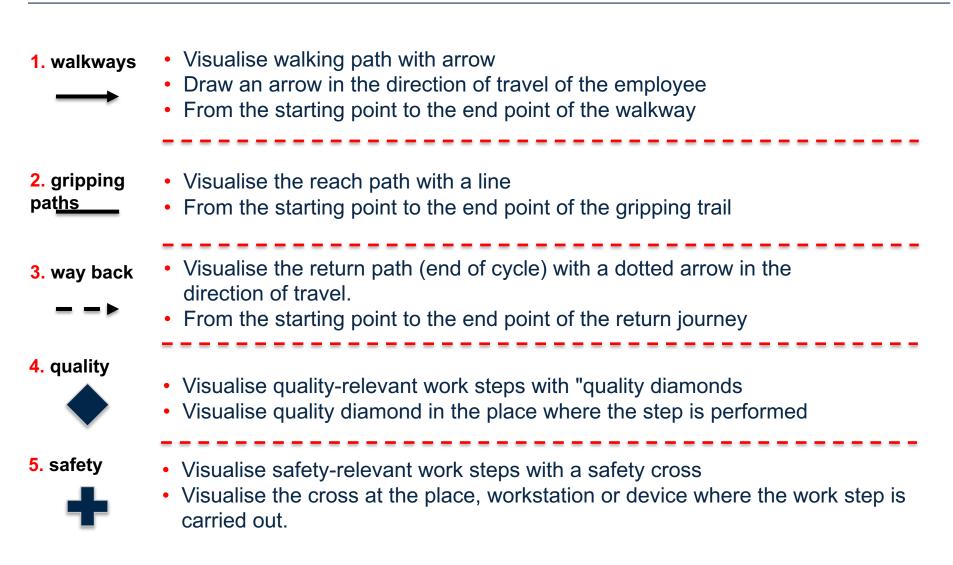
Draw every single movement in the layout







Overview of the display elements







Instructions for creating a sketch:

- Represent an entire cycle.
- Leave sufficient space
- Visualise every single movement.
- Walking distances when working at several workplaces
- Predominantly at a workplace: Reach distances
- Several employees involved: Observe one at a time

The sketch visualises the actual observed sequence of a cycle.