

Welding Engineering

Experienced welding engineers advise our customers in the development and construction phase or in the case of complex welding problems. They plan process and work tests, carry out welding monitoring and welding inspections. As a neutral specialist unit, the welding engineers advise our customers in the event of damage.

Our competences

For projects with a welding technology background, our welding engineers are the central hub in the Qualitech AG team. Under your management, the required knowledge and know-how is identified, organized and processed. The solution of welding tasks, planning and monitoring of process tests, welding work and welding repairs, project management of complete components, as well as consulting during the development and construction phase are only examples from your range of tasks. The entire breadth of your unique competencies is highly valued and used worldwide.



Added value for the customer

The customer benefits from the project management of our welding engineers. The customer has access to a wide range of know-how at no extra cost and can concentrate on his core competencies. New welding processes are qualified in accordance with your requirements. With this approach, we have produced over a thousand validated reports on the qualification of welding processes (WPQR) over the last decades.

Range of tasks of our welding engineers

- Construction supervision
- Procedure tests according to relevant regulations
- Expert opinions in the event of damage
- Solution of welding tasks
- Consulting with:
 - material technological questions
 - Application of welding procedures
 - Evaluation and procurement of equipment

Processes and serial numbers according to ISO 4063:2010

- Manual arc welding (111)
- Submerged arc welding (121, 122)
- Metal gas-shielded welding (131, 132, 133, 135, 136, 138)
- Tungsten inert gas welding (141, 142, 143, 145, 146, 147)
- Plasma welding (151, 152)
- Resistance welding (2)
- Gas fusion welding (3)
- Electron beam welding (51)
- Laser beam welding (52)
- Stud welding (78)
- Soldering (9)

Internal support

For cross-divisional projects, internal, highly qualified specialists offer broad support in the areas

- Specialized welding and heat treatments
- Test and measurement engineering
- Corrosion, corrosion protection and tribology
- Damage and material analysis
- Technical diagnostics



Examples for welding and testing supervision in a cement factory (l), consulting and production of a heat exchanger (m), procedure qualification for the application of deposition welding (r)

