

## Certification according to EN ISO 3834. Quality assurance in welding.



EN ISO 3834 is a standard used to ensure the quality in welding. The standard is used today in most countries. However, many companies that have still not realized the benefits of being certified are now facing external demands. Requirements may come from other standards as well as from customers or authorities.

Most common is the case where a subcontractor has to fulfill requirements in quality assurance in welding because the client is certified according to EN ISO 3834. WELDONOVA® process support offers the service “Quality assurance in welding”. The service offers help and guidance during the process to certification according to EN ISO 3834.

### What is EN ISO 3834?

EN ISO 3834 is a framework describing how to achieve a well functioning quality system in welding operations. The standard defines three quality levels, depending on which type of welding operation to be performed.

The cornerstones in ISO 3834 are the following:

- Welding coordination (EN ISO 14731)
- Qualification test of welders and welding operators (EN 287 and EN 1418)
- Specification and qualification of welding procedures (EN ISO 156XX)
- Non-destructive testing (ISO 9712)
- Validation of equipment (EN ISO 17662 and EN ISO 50504)
- Quality levels for imperfections (EN ISO 5817)

### The purpose of EN ISO 3834

There are several purposes with certification:

- Meet requirements from clients
- Work according to a quality system specific to welding operations that is well-known and which is used worldwide
- Prove the technical competence of the company
- Minimize costs and risks caused by absence of quality
- Secure a continuous development of production

**Services related to quality assurance offered by WELDONOVA®**

WELDONOVA® process support offers support and guidance during the process to certification:

- **Review of the present situation, before certification according to ISO 3834:** analysis of the present situation, suggestions to improvements/changes
- **Welding handbook (support during implementation of ISO 3834):** compilation of the entire handbook or parts of it
- **Qualification test of welders:** how it is done, planning of tests, possibly supervision of tests
- **Qualification of procedures (WPQR):** choice of procedure, possibly supervision of test welding
- **Welding procedure specification (WPS):** support in compilation
- **Visual inspection (ISO 5817):** training of welders and welding operators
- **Welding symbols (ISO 2553):** training of welders, welding operators and designers
- **Welding advisory:** support to local welding coordinator
- **Metallographic services:** cutting, grinding, etching, micrographic examinations, measurements
- **Templates and documents:** customer adapted checklists and documents, e.g. review of requirements, technical review, welder approval test certificate, WPQR and WPS
- **Gas related measurements:** calibration of flow meters, control of mixing ratio and contaminations in the shielding gas, measurements at outlets or directly in the gas cup, logging of mixing ratio and flow

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## WELDONOVA® process support.

WELDONOVA® process support is a part of AGA and The Linde Group which is exclusively working with process support, training and technical investigations in welding, cutting and heating processes. Contact us to learn more about our services.