



WELDING SERVICES

Eliminating the risk of weld defects.

SERVICES

- Failure analysis
- Procedure development, qualification and review
- General welding services

BUSINESS CHALLENGE

In order to achieve a competitive and safe working environment, it is essential to have operational components with sound structural integrity. To this end, owners require welding to be conducted in accordance with best practice and relevant design codes, while still achieving high production rates. Weld failures are often complex as they can include various factors like residual stress, fatigue and metallurgical defects. The most common causes of weld failure include:

- overload causing stress and strain;
- poor joint design leading to poor fusion;
- poor welding methodology, where little or no consideration is given to the welding process and the environment in which the welding is conducted; and
- metallurgical failure, where certain types of metals may be unsuitable for the application or may require special controls during the welding operation.

SOLUTION

Failure analysis

Bureau Veritas empowers owners to decrease or eliminate future weld failure by better understanding existing weld failures through in-depth failure analysis. Our team of engineers provides detailed weld failure analysis and offers appropriate solutions.

Procedure development, qualification and review

Welding procedure specifications (WPS), procedure qualification records (PQRs) and the review of current welding processes are essential to ensuring safe and reliable welds. We provide our clients with high levels of confidence that all welding operations are of a high quality and that they conform to relevant welding codes and standards.

General welding services

Our team has the capability to review and verify design drawings, assess the proposed non-destructive evaluation (NDE) process, the qualification of welders and of non-destructive testing (NDT) personnel, as well as assess the process for sand blasting and anti-corrosion painting to assist in managing the risk of potential welding failure.



KEY BENEFITS

Bureau Veritas is recognised as an industry leader in inspection and design verification. We are experienced in developing dependable, weld-related solutions.

INDUSTRIES

We service all industries that conduct or use welding activities.