



**BE A WORLD CLASS
MANUFACTURER IN FABRICATION**



The Indian Institute of Welding **Introduces to Welding Related Industries** **The Survival Strategy for the 21st Century**

In a globalised business environment, the Indian fabricators using welding should not only be prepared to face competitions at home from imports of finished fabricated products but should also be able to compete overseas to sustain their viability and contribute towards their stakeholders..

Manufacturer Certification System - The Quality Requirement for the 21st Century

Many companies have achieved certification to ISO 9001 with respect to their quality management systems. But where significant use is made of a special process like welding, such certification is unlikely to provide the required demonstration of company capability to manufacture products with the required product quality. In such cases compliance to ISO 3834 is the recommended solution.

Introduction to ISO 3834

- ✓ Processes such as fusion welding are widely used to manufacture many products. In some companies, they are the key feature of production. Products may range from simple to complex. Examples include pressure vessels, domestic and agricultural equipment, cranes, bridges, transport vehicles and other items.
- ✓ It is important, therefore, to ensure that these processes are carried out in the most effective way and that appropriate control is exercised over all aspects of the operation.
- ✓ Special Process – A process where the conformity of the resulting product cannot be readily or economically verified is frequently referred to as a 'special process'.
- ✓ *Quality cannot be inspected into a product; it has to be built in.* Even the most extensive and sophisticated non-destructive testing does not improve the quality of the product.
- ✓ It is emphasised that ISO 3834 is not a quality management system standard replacing ISO 9001:2000. However, it can be a useful tool when ISO 9001:2000 is adopted by manufacturers.
- ✓ To ensure sound and effective manufacturing, management needs to understand and appreciate the sources of potential trouble and to implement appropriate procedures for their control.
- ✓ ISO 3834 identifies measures that are applicable for different situations for welding application

The Competitive Edge... Maintaining a Certification

ISO 3834 can overcome the system weaknesses and boost the manufacturing company's ability to sell its products in both domestic and international markets. Compliance with ISO 3834 will provide a global recognition of company's capability. This is becoming a necessity also for manufacturers having overseas technical collaboration especially with European organisations.

People are the Key to ISO 3834

Entitled '**Quality Requirements for Welding**', the standard provides details of how to control the various welding and welding-related operations to achieve the desired quality consistently. A key feature of the standard is the requirement to ensure that people with welding responsibilities are competent to perform their activities.

This is achieved by incorporation of another standard: **ISO 14731 'Welding Coordination - Tasks and Responsibilities'** and **ISO-9712 (Non Destructive Testing –Qualification & Certification of Personnel)** ISO 3834 standard makes reference to IIW Qualification System as a way to demonstrate people's technical knowledge.

IIW Manufacturer Certification System Benefits - By Compliance to ISO 3834

Benefits for Certified Fabricators

- Clear, high profile, independent verification of compliance by the world's leading authority on Welding.
- Confirmation of welding and fabricating capability and staff competence,
- Improved client confidence leading to a reduction in external audits.
- Entry of the company's details on well - publicised International Web site register. Quality management and fabrication capability assessments carried out by IIW recognised assessors.
- Increased national and international business potential
- Cost savings in production.
- Facilitates compliance with emerging European and International standards that call up ISO 3834 namely the EU Directives, and the CEN Product Standards.

Benefits for Clients of Certified Fabricators

Clients should consider making ISO 3834 certification as a contractor requirement because it provides:

- Expertly led, independent assessment of suppliers.
- In-depth, authoritative evaluation of fabricator's capability.
- Consistent assessment and harmonised presentation of information and data

Who can certify?

International Institute of Welding appoints an Authorised National Body for Company Certification (ANBCC). The Indian Institute of Welding is at present an Authorised National Body (ANB) for administering personnel qualification and certification of the international body. IIW-India has the plan to form an ANBCC to meet potential industry demand.

How is certification achieved?

ISO 3834 contains three levels of requirements and the selection will depend on the degree of complexity and breadth of the welding operations. The first decision to make is which level of welding quality requirements is appropriate to the company.

- **International Harmonised System For Compliance With ISO 3834**
- **Lead Assessors Are Expert in Welding Technology**
- **Benefits For Certified Fabricators**
- **Registration Of Certification**

- ✓ **The company completes and returns the application documentation to ANBCC.**
- ✓ **Following review of this documentation; an assessment process will be conducted by ANBCC**
- ✓ **Successful applicants will be issued with an IIW Certificate indicating the standard(s) against which certification has been achieved.**
- ✓ **Register the company and details of its capability (product types , welding processes, base materials, etc) , in IIW, IIW-India & EWF websites**

Role of IIW-India



IIW-India is committed to the cause of supporting the Indian Fabricating industry, a key player in projecting India's manufacturing sector as world class with ability to compete on equal terms with global competitors.

Seminars and workshops are being organized in different parts of India to familiarize the manufacturing industry with the quality requirement in the days to come. Not being in step with technology and its requirement cause obsolescence and ultimate oblivion. The fabrication industry must think ahead before that eventuality.

For further details please Contact



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