

**About
EQC
India**

Équipe Qualité Consultants (EQC India) comprises of a team of quality professionals engaged in providing quality management and welding services for the infrastructure sector and manufacturing units.

EQC's areas of Operation of are:

- Supplier assessment, audits and development
- Review and approval of Quality Plans and Field Quality Plans
- Field Quality Audits
- Consultancy for PED certification/ CE Marking
- Welding Qualifications as per ASME and EN/ISO
- ISO 9001, ISO 14001-2015 and ISO 45001-2018
- Quality Improvement Studies
- Documentation & Implementation of ISO: 3834 Series for Quality requirements for fusion welding of metallic materials, EN: 15085-2/ BS EN 1090
- **Responsible Welding Coordinator (RWC Services)**
- Technical Support and Training on Codes and standards on Steels including Chinese, Russian, Indian, EN and ASME codes.
- Technical Support, Consultancy & Training on Welding Technology, NDT, Industrial Painting, Dynamic Balancing & Engineering Materials.

EQC India was started in 2009 to provide value added to Industry.



Inspiring Quality Since 2009

In the present issue, we cover in brief the role and importance of codes and standards.

Codes, regulatory requirements, standards, specifications and recommended practices are used in all aspects of construction, fabrication, manufacturing and inspection. Codes are generally the top-tier documents, providing a set of rules that specify the minimum acceptable level of safety for manufactured, fabricated or constructed items.

Also covered in this issue is a list of requirements for certification of fabrication units to ISO: 3834. ISO 3834 implementation is a basic requirement for certification to EN 15085 and BS EN 1090.

Happy Reading!

Please do send in your comments & suggestions for improvement of our newsletter.

Editor, 1st July 2019

NEW CLIENTS/ CONTRACTS/ PARTNERS DURING THE LAST QUARTER



Economic Benefits of Standards

Many organizations from the private and public sector use standards and participate in standards development. A few of them see standardization as directly linked to their core business strategy. Some approach standardization in a highly organized way and have a clear perception of the impact of standards on their activities and performance.

Others may use standards from a narrower perspective, for specific processes or activities. Most of them realize that standards bring benefits to their organization, although the level of awareness and the perception of such benefits vary considerably.

ISO (International Organization for Standardization, Geneva) conducted studies to evaluate the economic benefits of standardisation. The case studies span enterprises of varying sizes, from small companies of 25 employees with an annual sales revenue of approximately USD 4.5 million to large conglomerates of several thousand employees boasting an annual revenue exceeding USD 2.5 billion. Despite the huge disparities in size, results consistently demonstrate that companies achieve tangible benefits from using standards.

The company case studies underscore three main types of benefits from using standards:

Key benefit 1: Streamlining internal operations

One main finding is that standards can be used to streamline the internal processes of a company, for example by reducing the time needed to perform specific activities in the various business functions, decreasing waste, reducing procurement costs and increasing productivity. The case studies consistently report that the contribution of standards to the gross profit of companies ranges between 0.15 % and 5 % of the annual sales revenues.

Key benefit 2: Innovating and scaling up operations

Some case studies provide examples where standards served as the basis for innovating business processes, allowing companies to expand their suppliers' network or to introduce and manage new product lines effectively. In other instances, standards helped mitigate the risk to companies of introducing new products onto national markets.

Key benefit 3: Creating or entering new markets

Standards have been used as the basis for developing new products, penetrating new markets (both domestic and export), supporting the market uptake of products, and even creating markets. In exceptional cases, the impact of standards far exceeded the figure mentioned above, with companies achieving a gross profit contribution of up to 33 % of their annual revenue, which helped them position themselves as leaders in their field, at least over a certain period of time.

“To be able to measure and quantify how standards have helped our organization and our customers is invaluable, enabling us to identify areas where we have done well, areas that we can further improve upon and gaps that we need to bridge.”

Gerry Lee, Managing Director (Business Groups)

NTUC FairPrice (Singapore)

Conformity Assessment Services being offered in India

In India, several national and international conformity assessment bodies (CAB's) operate in management systems and foreign certification schemes. These schemes cover management systems, product safety, product performance, welding systems, organizational systems and sustainable practices. The Indian accreditation scheme is coordinated by the Quality Council of India (QCI), which is under the administrative control of Ministry of Commerce & Industry.

General Management Systems Certification	Sector Specific Management Systems Certification
<ol style="list-style-type: none"> 1. ISO: 9001 – QMS 2. ISO: 14001– EMS 3. ISO: 45001 – OH&S MS 4. ISO: 27001 – ISMS 5. ISO: 22301– BCMS 6. ISO:50001 – EMS 7. ISO: 55001 – AMS 8. SA: 8000 – Social Accountability <div style="display: flex; align-items: center; margin-top: 20px;">  <div style="text-align: left;"> <p>International Organization for Standardization</p> </div> </div>	<ol style="list-style-type: none"> 1. ISO: 3834 – Welding Systems 2. ISO: 22001 – Food auditing 3. ISO: 13485 – Medical devices 4. ISO/IEC: 20000 - IT 5. ISO: 28000- Supply chain security 6. ISO: 29001- Oil & gas 7. ISO: 29990- Learning system providers 8. ISO: 39001 – Road traffic Safety 9. IATF: 16949 – Automotive 10. TL 9000- Telecom 11. AS/EN: 9100 – Aerospace 12. EN: 15085 – Railway vehicles construction 13. EN: 15838 – Call centers 14. IRIS (International Railway Industry Standard) 15. WRAP (Worldwide Responsible Accredited Production) 16. GLOBAL GAP – Agricultural practices
Product Certification Schemes	Climate Change & Business Compliance
<ol style="list-style-type: none"> 1. CE MARKING 2. ENEC 24 (For electrical products) 3. RoHS (For electronic products) 4. UL MARK UL) 	<ol style="list-style-type: none"> 1. Clean Development Mechanism (CDM) 2. Carbon Footprint Certification 3. Code of Conduct (CoC) 4. Business Social Compliance Initiative (BSCI)

EQC India provides training and consulting services on codes and standards such as ISO:9001, 14001, 45001, ASME Section IX, EN 1090, EN 15085-2, ISO: 3834-2, ISO: 15614, ISO:9606

ISO 3834 – Minimum Requirements for Certification

S. No	Description of Requirements	Qualification Requirement	Remarks
1	Responsible Welding Coordinator (RWC)/ Welding Coordinator (Deputy)	Qualified IWE/ IWT as per ISO 14731	At least one per location
3	Welding Procedure Specification (WPS)	As per ISO: 15609	For each combination
4	Welding Procedure Qualification Record (WPQR)	Qualified WPQR as per ISO: 15614	For each WPS. Tests to be conducted in NABL lab.
5	Certification of welders/ welding operators	Qualified as per ISO: 9606/ 14732	Also check for job knowledge.
6	Welding Inspector/ QC Personnel	Competent for Inspection & testing of welding production	Sufficient number of should be available
7	NDE Personnel	Qualified as per ISO: 9712	For all applicable NDE
8	Quality Records	Minimum as per Clause 18 of ISO: 3834-2	List to be maintained. All functions to be covered.
OTHER IMPLIED REQUIREMENTS			
1	Quality System Manual	To cover all clauses of ISO: 3834 in addition to ISO: 9001-2015	QMS compliance to be ensured.
2	Internal Audits	Same as for ISO: 9001-2015	Covers ISO: 3834-2 clauses.
3	Management Review Meeting	Same as for ISO: 9001-2015	Covers ISO: 3834-2 clauses.

Note: ISO 3834 implementation is a basic requirement for certification to EN 15085 & BS EN 1090. Additional requirements of EN 15085 / BS EN 1090 are required to be complied with for certifications.

Équipe Qualité Consultants also provides consultancy and customized training for QA, QC/ Inspection/ Welding/ Engineering / Power Professionals/ Fabricators in the following areas:

1. Welding Coordination Personnel (IWE)	2. Welding Qualifications as per ASME IX
3. Welding Qualifications as per EN/ISO	4. Engineering Materials - Steels
5. Welding Certification as per ISO: 3834	6. Railway Certification as per EN: 15085-2
7. ISO:9001, ISO: 14001 & ISO: 45001	8. Factory Production Control (FPC) for CE
9. QA/QC for Chinese Power Equipment	10. Industrial Painting Systems

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