

An Overview of European and International Standardization and Conformity Assessment

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ACCEDE | ESCCON

2025

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ALTER





1. The Spanish Association for Standardization, UNE
2. Standardization: National, European, International
3. European Standardization: CEN/CLC/JTC 5 **SPACE**
4. International Standardization: ISO TC 20: Aircraft and space vehicles
5. IECEE: IEC CA system for Electrotechnical Equipment and Components

UNE: Non-profit, private and independent organization. Legally designated as Spanish National Standardization Body since 1986

- 89 members of staff
- 548 members
- 37,277 catalogued standards
- 3,191 projects underway
- 198 Technical Standardization Committees, in which more than 13,150 experts and technicians from various sectors of activity participate
- 161 responsibilities in different supranational technical entities (ISO, IEC, CEN and CENELEC)
- 13 international cooperation projects (*active projects*)
- 45 R&D projects (*portfolio projects*)

Information as at 31-12-2024



UNE

International



www.iso.org



www.iec.ch



www.itu.int

European



www.cencenelec.eu



www.etsi.org

National



www.elot.gr



www.din.de



www.sfs.fi



www.ipq.pt



www.une.org



www.uni.com

and more...

- Subject to European/national regulations
- International Agreements (WTO)
- Common rules
- Linked participation

Mechanical components
and systems TCs

Electrotechnical
components and
systems TCs

Telecommunications
TCs

European standardization



www.cencenelec.eu

CENELEC



www.etsi.org

Joint TC
CEN/CLC/JTC 5 SPACE



CEN/CLC JTC 5 SPACE

WG	WG Title
CEN/CLC/JTC 5/WG 1	Navigation and positioning receivers for road applications
CEN/CLC/JTC 5/WG 2	Space Situational Awareness Monitoring
CEN/CLC/JTC 5/WG 6	Upstream standards
CEN/CLC/JTC 5/WG 7	Future activities in space standardization
CEN/CLC/JTC 5/WG 8	SBAS receivers performances for Maritime applications
CEN/CLC/JTC 5/WG 9	Galileo Timing Receivers



CEN/CLC JTC 5 SPACE: > 200 standards/projects

Reference	Title	Scope
EN 16601(series)	Space project management	7 docs (risk, planning, terminology...)
EN 16602(series)	Space product assurance	62 docs: EEE comp., material properties, elec/mec tests, HW/SW...
EN 16603(series)	Space engineering	68 docs: design, protocols, procedures, HW/SW...
EN 16604(series)	Sustainability/Situational Awareness Monitoring	4 docs: planetary protection, tracking, etc.
Others	CEN/TRs, CEN/CLC/TRs	GNSS, engineering, use cases

Mechanical components
and systems TCs

Electrotechnical
components and
systems TCs

Telecommunications
TCs

International standardization



www.iso.org



www.iec.ch



www.itu.int

ISO TC 20: Aircraft and
space vehicles
Liaisons with IEC/TCs
committees: batteries, cables,
connectors, relays...



IEC Conformity Assessment Systems

The IEC manages the operation of four worldwide Conformity Assessment (CA) Systems. These CA systems represent the only globally standardized approach to testing, inspection and certification



IECEE

IECEE is the IEC System of Conformity Assessment Schemes for Electrotechnical Equipment and Components.



IECEX

IECEX is the IEC System for Certification to Standards Relating to Equipment for Use in Explosive Atmospheres.



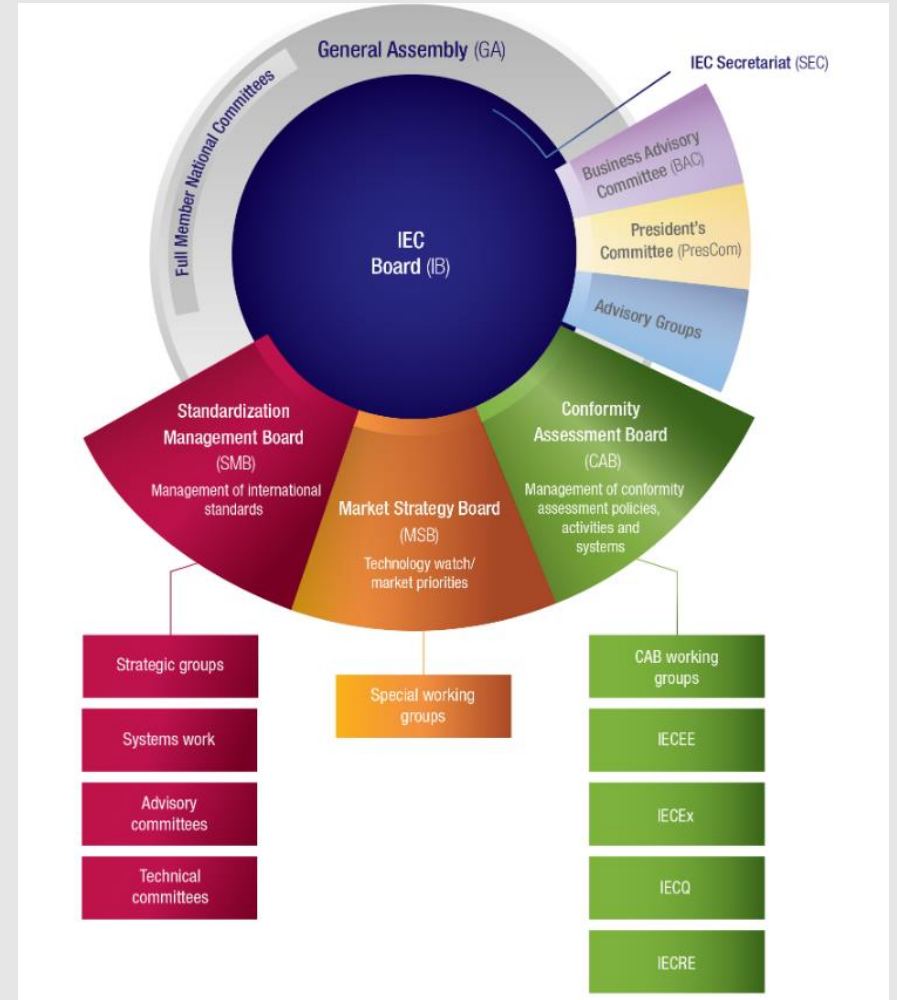
IECQ

IECQ is the IEC Quality Assessment System



IECRE

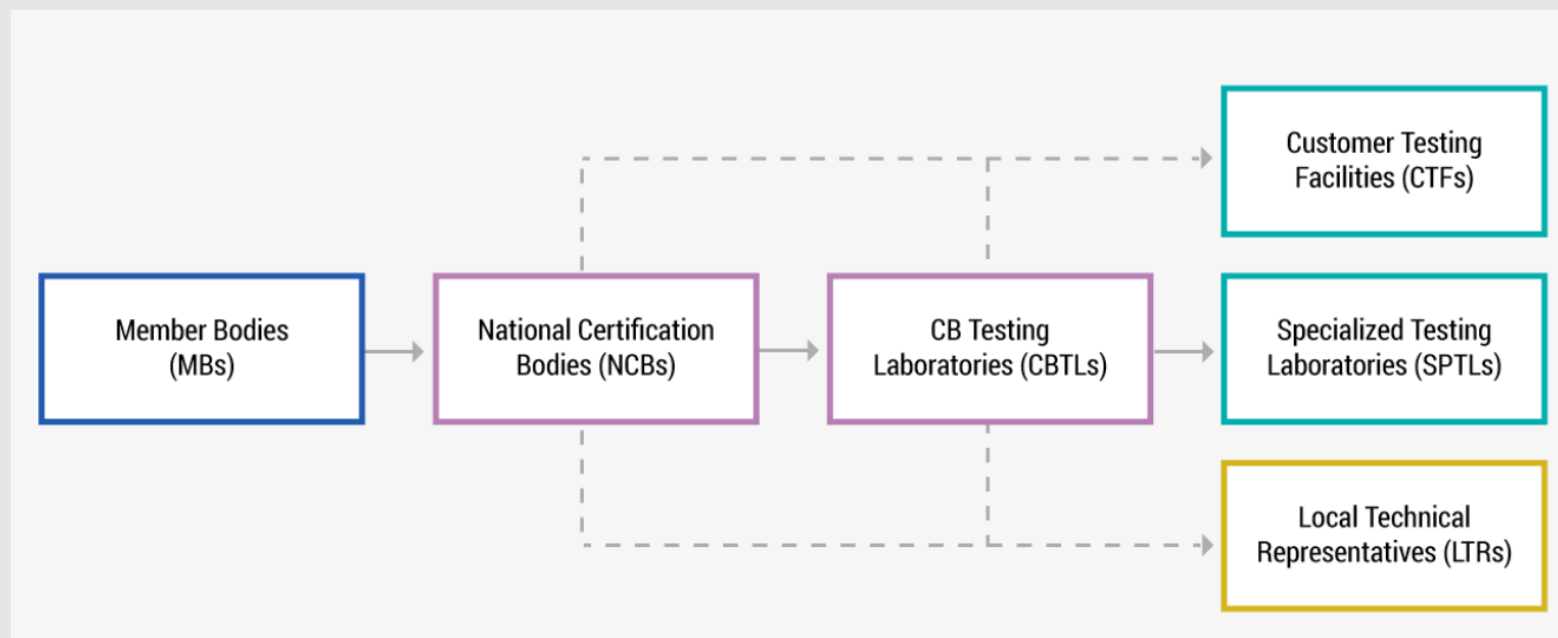
IECRE is the IEC System for Certification to Standards Relating to Equipment for Use in Renewable Energy Applications.





IEC System for Conformity Assessment Schemes for Electrotechnical Equipment and Components:

- **multilateral certification system** based on IEC International Standards.
- its Members use the principle of **mutual recognition** (reciprocal acceptance) of test results to obtain certification or approval at national levels around the world.





3283 STANDARDS UNDER 23 CATEGORIES

Acronym	Name	Number of standards
BATT	Batteries	87
CABL	Cables and Cords	109
CAP	Capacitors as components	55
CONT	Switches for appliances and automatic controls for electrical household appliances	145
CYBR	Cyber Security	9
E3	Energy Efficiency	88
ELVH	Electrical Vehicle	27
EMC	Electromagnetic Compatibility	423
HOUS	Household and similar equipment	812
INDA	Industrial Automation	10
INST	Installation accessories and connection devices	273
ITAV	Information Technology Audio Video	5
LITE	Lighting	355
MEAS	Measurement, Control and Laboratory equipment	105
MED	Electrical equipment for medical use	325
MISC	Miscellaneous	64
OFF	IT and office equipment	29
POW	Low voltage, high power switching equipment	208
PROT	Installation protective equipment	156
PV	Photovoltaics	83
SAFE	Safety transformers and similar equipment	79
TOOL	Portable tools	160
TRON	Electronics, entertainment	12



<https://www.iecee.org/> includes

- Database to find certificates from all NCBs (extract from certificates)
- Contact information of all members (MBs, NCBs, CBTLs, etc.)
- Search by category, by standard reference, including:
 - Date of inclusion in IECEE
 - National differences (if any)
 - NCBs (Issuing&Recognizing/only Recognizing)
 - CBTLs

Thank you for your attention

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