ISO safety standards

supporting progress in technology

Bangkok, 2017-07-10
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ISO – A global system

ISO EXPERTS
- 247 active TCs
- 3,555 technical bodies
- 4,997 documents under development

ISO MEMBERS
- 163 national members
- 98% of world GNI
- 97% of world population

ISO Strategy 2016-2020

ISO/CS
- Over 770 organizations in liaison
- Collection of 21,478 ISO Standards
- 1,505 standards produced in 2015

Central Secretariat in Geneva
- 144 FTE staff from 20 Countries
Encouraging participation from developing countries

1. Twinning with Developed Countries
   - To address unbalance between number of developing countries
   - Developing country learns how to run a secretariat, to be P-member or to convene a WG
   - To promote exchange of experience between members

   Success story: AFNOR (France) and ABNT (Brazil) share the secretariat of ISO/TC 34 Food Products

2. Sponsorship for Technical Meetings
   - Travel assistance for developing countries

   Success story:
   - NSB (Namibia) sponsored for ISO/TC 71 meetings in Colombia, in 2016
   - ABNT (Brazil) sponsored for ISO/TC 71 meetings in South Korea, in 2015

3. Capacity Building Workshops
   - To build capacity of National Quality Infrastructure in developing countries
ISO Regional Engagement Initiative - Asia

Located in Singapore

Communication, Collaboration and Partnership

Advocacy

ISO Strategy 2016-2020

Training and Technical Assistance
ISO Technical Committee
ISO/TC 86

Refrigeration and air-conditioning

Secretariat: ANSI (US)
19 P-members
40 O-members

Other Technical Committees

SC 1: Safety and environmental requirements for refrigerating systems
SC 4: Testing and rating of refrigerant compressors
SC 6: Testing and rating of air-conditioners and heat pumps
SC 7: Testing and rating of commercial refrigerated display cabinets
SC 8: Refrigerants and refrigeration lubricants

Organizations in liaison:
UNEP, UNECE, CAC, CECED, ECOS, EUROVENT, IIF
ISO/TC 86 Standards of Interest

**ISO 5149 Series** *(developed by TC 86/ SC 1)*

Refrigerating systems and heat pumps - Safety and environmental requirements

- Part 1: Definitions, classification and selection criteria
- Part 2: Design, construction, testing, marking and documentation
- Part 3: Installation site
- Part 4: Operation, maintenance, repair and recovery

**ISO 817** *(developed by TC 86/ SC 8)*

Refrigerants - Designation and safety classification
Developing and Maintaining ISO standards
How we develop standards

TC/SC Route

1. NP (new work item proposal)
2. Building expert consensus #
3. Consensus building within TC/SC #
4. Enquiry on DIS (Draft International Standard)
5. Formal vote on FDIS (proof check by secretariat) #
6. Publication of International Standards

Proposal may come from:
• ISO member;
• the secretariat of TC/SC;
• another TC/SC;
• Organization in category A liaison;
• TMB or one of its advisory groups;
• Chief Executive Officer.

Fast track

Deliverables
First CD (Committee Draft)
Or ISO/PAS (Public Available Specification)
DIS or ISO/TS (Technical Specification)
ISO/TR (Technical Report) for non-normative documents
Final text for processing as FDIS (Final Draft International Standard)
Final text of international standard
ISO International Standard

Internal Consultation within TC/SC only
Open to all ISO members
Maintaining ISO standards

Systematic review *(Every 5 years)*
- Keeping up with the latest trends
- Open to all ISO members
- Withdraw, revise/amend, confirm or abstain

Revision/Amendment *(Any time)*
- Simpler process than starting a new ISO standards
- By the TC/SC member or liaison organisation

Minor revision/amendment path – even shorter process for editorial changes
Maintenance Agency

• For a standard with frequent modification, e.g. ISO 817, TC/SC may decide that a Maintenance Agency (MA) is required.

• The MA for ISO 817 shall decide upon additions to and deletions from the list of refrigerants in ISO 817 (tables 5, 6 and 7 on refrigerants)

• Revised tables should be available on ISO website as soon as approved by the MA