



INTERNATIONAL CONFERENCE ON CONTEMPORARY TRENDS IN ROAD SAFTEY

VEHICLE STANDARDS AND REGULATIONS

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Why do we need standards/Regulations?

WHAT IS A STANDARD

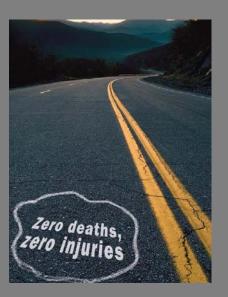
"A document, established by consensus and approved by a recognized body, that provides, for common and repeated use, rules, guidelines, or characteristics for activities or their results, aimed at the achievement of the optimum degree of order in a given context."

STANDARDS contributing to:

- SAFETY / SECURITY
- CONSUMER PROTECTION
- ENVIRONMENTAL PROTECTION
- FAIR TRADE OPERATIONS







Benefits of Standards







Standards

- Lower costs of production
- Provide assurance of quality
- Eliminate unnecessary barriers to trade
- Provide a marketing advantage
- Enable rapid technology transfer

Benefits of Standards- Road Vehicles







- For manufacturers and supply chain partners; regulators and health authorities; vehicle owners and drivers, and road users including pedestrians
- Ensure the safety, quality, efficiency, effectiveness and environmental friendliness of road vehicles
- Improve the present by integrating road vehicles with information and communication technology infrastructures
- Prepare for the future by developing terminology, safety and environmental requirements for new solutions to powering road vehicles

The World Health Organization (WHO) projects that by 2030, the fifth most common reason for loss of health will be an injury generated within the road transport system







Standardization bodies

...have devoted lot of efforts to the preparation of Standards in the field of Road Safety, vehicle Safety, design and equipment

ROAD AND VEHICLE SAFETY Standards

Hundreds of standards contribute to reducing injury and death on the world's roads

- Road Traffic Safety Management
- Road Vehicles
- Signals
- Light and Signaling
- Fuel Safety
- Information Technology
- Etc...



Different kinds of standards available:

- Specifications
- Safety Requirements
- Performance
- Environmental Requirements
- Harmonized Test Procedures



Technical Regulations: How can standards help?

When health and safety, or the environment are affected, the free market system breaks down, and the population becomes vocal:



Governments therefore need to act decisively Put in place a Technical Regulation System

MANDATORY (Compulsory)

Technical Regulations: How can standards help?

- Standards are developed by experts
- Standards are regularly updated
- Standards reflect the state of the art
- Standards can be used by everybody, and represent National/ Regional/INTERNATIONAL consensus
- Legal documents are not as easily changed as standards
- WTO Agreements

Technical Regulations AND Standards

 HARMONIZATION OF STANDARDS AT THE REGIOANL/ INTERNATIONAL LEVELS

TECHNICAL REGULATIONS BASED ON STANDARDS

LESS TECHNICAL BARRIERS TO TRADE



THE INTERNATIONAL ORGANIZATION FOR STNADARDIZATION- ISO

ISO Technical Committees

TC 22 Road Vehicles

TC 31 Tyres, rims and valves

TC 204 Intelligent transport systems

TC 241 Road traffic safety management systems









ISO TC 204 - Intelligent transport systems

Scope:

Created in 1993 to develop standards for transport information and control systems (TICS) in the emerging field of intelligent transportation systems (ITS).

Published around 134 standards:

- In-vehicle navigation systems -- Communications message set requirements
- Adaptive Cruise Control systems -- Performance requirements and test procedures
- Transport information and control systems -- Forward vehicle collision warning systems -- Performance requirements and test procedures

ISO TC 22- Road vehicles

Scope:

Published 700 standards and updates.

These range from standards addressing basics such as wheels, braking systems and road holding ability, to crash protection, child restraint systems and ergonomics.

- Improve compatibility, interchangeability and safety,
- Provide the requirements for harmonized test procedures for evaluating performance of the following types of road vehicles and their equipment as defined in the relevant items of Article 1 of the convention on Road Traffic, Vienna in 1968 concluded under the auspices of the United Nations: Mopeds; Motor cycles; motor vehicles; Trailers; semi-trailers; light trailers; combination vehicles; articulated vehicles.....

ISO TC 241

Project Committee: Road traffic safety management systems

ISO 39001, Road-traffic safety management systems, developed by ISO project committee ISO/PC 241, Road safety management, is widely regarded as a major contribution to the United Nations' Decade of Action for Road Safety 2011-2020.

Provide organizations active in road safety with the means of increasing and promoting their related safety standards.

ISO 39001:2012 specifies requirements for a road traffic safety (RTS) management system to enable an organization that interacts with the road traffic system to reduce death and serious injuries related to road traffic crashes which it can influence.

ISO TC 31 -Tires, rims and valves,

Has developed some 75 standards and updates.

ISO/TC 176, Quality management and quality assurance.

- > The technical specification ISO/TS 16949 has become the global benchmark for quality management by automotive suppliers.
- > Certification of conformity to ISO/TS 16949 is often required of suppliers by the automobile manufacturers as a condition to tender for participation in global supply chains.
- ➤ Up to the end of December 2010, at least 43 946 ISO/TS 16949:2002 certificates, a growth of 7 %, had been issued in 84 countries and economies.

European Standardization Activities



CEN/TC 354 - Ride-on, motorized vehicles intended for the transportation of persons and goods and not intended for use on public roads - Safety requirements

CEN/TC 169 - Light and lighting

CEN/TC 226 - Road equipment

CEN/TC 227 - Road materials

CEN/TC 278 - Road transport and traffic telematics

CEN/TC 301 - Road vehicles

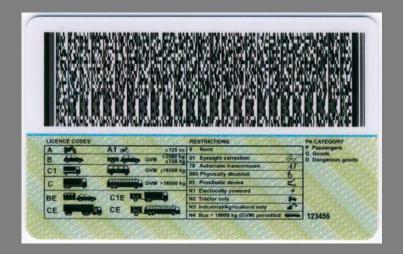
CEN/TC 320 - Transport - Logistics and services

CEN/TC 337 - Winter maintenance and road service area maintenance equipment

ISO/IEC 18013 Multipart standard on *Information*technology – Personal identification – ISO compliant driving licence.

This standard facilitates global harmonization and interoperability of driving licences





ISO 2575

Road vehicles -- Symbols for controls, indicators and tell-tales

Gives the familiar symbols for controls and indicators that we are accustomed to seeing on the dashboard.







Kids come first.....



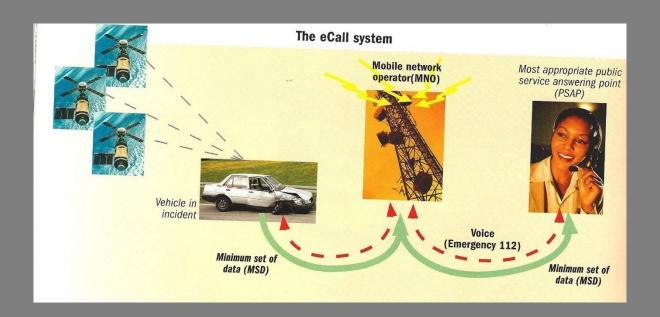
The ISOFIX attachment system makes installing child car seats to the vehicle simple and safe thanks to ISO 29061.

The ISO 15830 standard provides the automotive industry with the performance specifications for the most advanced human crash test dummy for improving vehicle design and increasing passenger safety.

WorldSID (for World Side Impact Dummy), was developed to allow a single, universally accepted test device to be used for side impact testing meeting regulations worldwide.

CEN/TS 15722:2009, Road transport and traffic telematics – ESafety – ECall minimum set of data (MSD).

"will help make information provided by the vehicle understandable by the emergency and rescue services."





Emergency services will know exactly where the vehicle is located. This information will help victims, disoriented, in shock, not sure of where they are, or injured, to receive help.

REGIONAL HARMONIZATION OF STANDARDS AND REGULATIONS IN THE EU

UNECE Regulations

United Nations Economic Commission for Europe



UNECE's major aim is to promote pan-European economic integration. It brings together 56 countries located in the European Union, non-EU Western and Eastern Europe, South-East Europe and Commonwealth of Independent States (CIS) and North America.

All these countries dialogue and cooperate under the aegis of UNECE on economic and sectoral issues. However, all interested United Nations member States may participate in the work of UNECE. Over 70 international professional organizations and other nongovernmental organizations take part in UNECE activities.

REGIONAL HARMONIZATION OF STANDARDS AND REGULATIONS IN THE EU

Technical harmonization for motor vehicles and their trailers, implemented at Union level pursuant to Article 114 of the Treaty on the Functioning of the European Union (TFEU), is based on the EC Whole Vehicle Type-Approval system (EC WVTA).



Under this system, manufacturers can obtain approval for a vehicle type in one Member State if it meets the Community technical requirements, and then market it EU-wide with no need for further tests or checks. Registration must be granted on simple presentation of a certificate of conformity.

- Access to large markets
- Worldwide technical harmonization in the context of the United Nations Economic Commission for Europe (UNECE) offers a market which extends beyond European borders.

REGIONAL HARMONIZATION OF STANDARDS AND REGULATIONS IN THE EU

UNECE TRANSPORT DIVISION

Facilitate the international movement of persons and goods by inland transport modes and improve competitiveness, safety, energy efficiency and security in the transport sector taking into account environmental protection to levels that reduce adverse environmental impact of transport activities and contribute effectively to sustainable development.

UNECE REGULATIONS

- Transport Facilitation and Security
- Intelligent Transport Systems
- Climate Change and sustainable transport
- UNDA Project on CO2 emissions and ForFITS
- Transport, Health, Environment (THE PEP)
- Trans-European Rail and Motorways

- Transport Infrastructure Development
- Road Traffic Safety
- Gender and transport
- Transport Economics
- Capacity Building

Specialized areas: Transport of Dangerous Goods and Vehicle Regulations

UNECE REGULATIONS

Working Party on General Safety Provisions (GRSG)

World Forum for Harmonization of Vehicle Regulations (WP.29)

Working Party on Passive Safety (GRSP

Working Party on Noise (GRB)

Working Party on Brakes and Running Gear (GRRF)

Working Party on Pollution and Energy (GRPE)

Working Party on Lighting and Light-Signalling (GRE)



Lebanese Standardization Activities

Road marking

Road Traffic Signs

Road Safety Barriers

Road Equipments

Alarm Systems

Safety Requirements for passenger vehicles

Tires

Traffic noise reducing devices

Safety Requirements of Motor Vehicles

Safety requirements of motor vehicles designed for the transport of goods - Part 1: General and definitions	متطلبات السلامة في المركبات الآلية المصممة لنقل البضائع - الجزء الأول: تعريف وعموميات	1	403 NL
Safety requirements of motor vehicles designed for the transport of goods - Part 2: Dimensions and weights	متطلبات السلامة في المركبات الآلية المصممة لنقل البضائع - الجزء الثاني: الأبعاد والأوزان	2	403 NL
General Safety Requirements for Passenger Vehicles	متطلبات السلامة في حافلات الركاب - الجزء الأول: تعاريف وعموميات	1	404 NL
General safety requirements for passenger vehicles – Part 2: Technical and environmental elements	متطلبات السلامة في حافلات الركاب – الجزء الثاني: العناصر التقنية والبيئية	2	404 NL
General safety requirements for passenger vehicles –Part 3: School buses	متطلبات السلامة في حافلات الركاب- الجزء الثالث: باصات التلامذة	3	404 NL
General safety requirements for passenger vehicles –Part 4: Inspection methods and periodic maintenance	متطلبات السلامة في حافلات الركاب - الجزء الرابع: طرق المعاينة والصيانة الدورية	4	404 NL

Motor Vehicles Using LPG

Motor Vehicles Using LPG - Containers	المركبات العاملة على غاز النفط المسيل - الجزء الأول: الخزانات	1	663	NL
Motor Vehicles Using LPG - Accessories Fitted to the Container	المركبات العاملة على غاز النفط المسيل - الجزء الثاني: الأجهزة الملحقة بالخزانات	2	663	NL
Motor Vehicles Using LPG - Specific Equipment	المركبات العاملة على غاز النفط المسيل - الجزء الثالث: أجهزة التحويل	3	663	NL
Motor Vehicles Using LPG - Test Procedures	المركبات العاملة على غاز النفط المسيل - الجزء الرابع: طرق فحص الأجهزة	4	663	NL
Motor Vehicles Using LPG - Code of Practice for Refuelling Stations	المركبات العاملة على غاز النفط المسيل - الجزء الحامس: الإشتراطات التطبيقية	5	663	NL

Tires and Rims

Passenger Car Tyres and Rims - Part 1: Tyres	إطارات سيارات الركاب وأطواقها - الجزء الأول: إطارات	1	4000	ISO N	IL
Passenger Car Tyres and Rims - Part 2: Rims	إطارات سيارات الركاب وأطواقها - الجزء الثاني: الأطواق	2	4000	ISO N	IL

NL EN 13094 -Tanks for the transport of dangerous goods - Metallic tanks with a working pressure not exceeding 0,5 bar - Design and construction

مورتعت بياب

TATE TATE

ORME LIBANAISE EBANESE STANDARD

13094 ID

Première éditis First editis 20

صهاريج لنقل السلع الخطرة - الصهاريج المعنية ذات ضغط تشغيلي تعدى 0.5 بار – تصميم و إنشاء

Iternes destinées au transport de matières dangereuses -Iternes métalliques ayant une pression de service aférieure ou égale à 0,5 bar - Conception et construction

'anks for the transport of dangerous goods - Metallic tanks ith a working pressure not exceeding 0,5 bar- Design and onstruction

EN 13094: 2008 + AC:2009, IDT)



مؤسسة المقاييس والمواصفات اللبناتية LIBNOR

Numéro de référen Reference numb

LEBANESE STANDARDS - Voluntary by Definition

However;

For reasons of public safety, public health, and/or national interest, and upon approval by LIBNOR's Board of Directors

A standard may be given a MANDATORY status by a decree from the Council of Ministers

STANDARDS

INNOVATION

GLOBAL HARMONIOZATION

MARKET ACCESS

TESTED ONCE ACCEPTED EVERYWHERE

THANK YOU FOR YOUR ATTENTION

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