

## DEPARTMENT OF TRADE AND INDUSTRY

No. 905

18 September 2009

STANDARDS ACT, 2008  
STANDARDS MATTERS

In terms of the Standards Act, 2008 (Act No. 8 of 2008), the Council of the South African Bureau of Standards has acted in regard to standards in the manner set out in the Schedules to this notice.

All South African standards that were previously published by the South African Bureau of Standards with the prefix "SABS" have been redesignated as South African national standards and are now published by Standards South Africa (a division of SABS) with the prefix "SANS".

A list of all existing South African national standards was published by Government Notice No. 1373 of 8 November 2002.

In the list of SANS standards below, the equivalent SABS numbers, where applicable, are given below the new SANS numbers for the sake of convenience. Standards that were published with the "SABS" prefix are listed as such.

## SCHEDULE 1: ISSUE OF NEW STANDARDS

The standards mentioned have been issued in terms of section 16(3) of the Act.

Standard No. and year	Title, scope and purport
SANS 373-2:2009	<i>Reprocessing of endoscopes – Part 2: Rigid endoscopes, associated components and accessories.</i> Provides a code of practice for the preparation of rigid endoscopes, associated components and the reusable endoscopic accessories used with rigid endoscopes, for reuse, using washer disinfectors, steam, or chemicals in the reprocessing environment. It covers the requirements for personnel responsible for reprocessing endoscopes and for the reprocessing environments in healthcare facilities.
SANS 862:2009	<i>Set-top box decoder for free-to-air digital terrestrial television.</i> Sets out the minimum technical requirements for a set-top box decoder for free-to-air, standard definition, digital terrestrial television in South Africa. Concerns broadcasters, broadcasting signal distributors and decoder manufacturers. Does not cover integrated digital television (IDTV).
SANS 883:2009/ ISO 5999:2007	<i>Flexible cellular polymeric materials – Polyurethane foam for load-bearing applications excluding carpet underlay – Specification.</i> Specifies requirements for flexible load-bearing polyurethane foam of the polyether type.
SANS 956-1:2009/ ISO 20022-1:2004	<i>Financial services – UN/versal Financial Industry message scheme – Part 1: Overall methodology and format specifications for inputs to and outputs from the ISO 20022 Repository.</i> Consists of the overall description of the modelling approach; the overall description of the ISO 20022 Repository contents; a high-level description of the input to be accepted by the Registration Authority to feed/modify the Repository's Data Dictionary and Business Process Catalogue; and a high-level description of the Repository output to be made publicly available by the Registration Authority.
SANS 2417:2009/ ISO 2417:2002	<i>Leather – Physical and mechanical tests – Determination of the static absorption of water.</i> Specifies a method for determining the water absorption of leather under static conditions. The method is applicable to all leather, particularly heavy leather.
SANS 2589:2009/ ISO 2589:2002	<i>Leather – Physical and mechanical tests – Determination of thickness.</i> Specifies a method for determining the thickness of leather. Applicable to all types of leather of any tannage. The measurement is valid for both the whole leather and a test sample.
SANS 9692-3:2009/ ISO 9692-3:2000	<i>Welding and allied processes – Recommendations for joint preparation – Part 3: Metal inert gas welding and tungsten inert gas welding of aluminium and its alloys.</i> Specifies types of joint preparation for metal inert gas welding, MIG, (131) and tungsten inert gas welding, TIG, (141) on aluminium and its alloys. It applies to fully penetrated welds.
SANS 9692-4:2009/ ISO 9692-4:2003	<i>Welding and allied processes – Recommendations for joint preparation – Part 4: Clad steels.</i> Gives recommendations for types of joint preparation for clad steels.
SANS 11644:2009/ ISO 11644:1993	<i>Leather – Test for adhesion of finish.</i> Specifies a method for measuring the adhesion of the finish to the leather or the adhesion between two adjacent layers of the finish.
SANS 15589-1:2009/ ISO 15589-1:2003	<i>Petroleum and natural gas industries – Cathodic protection of pipeline transportation systems – Part 1: On-land pipelines.</i> Specifies requirements and gives recommendations for the pre-installation surveys, design, materials, equipment, fabrication, installation, commissioning, operation, inspection and maintenance of cathodic protection systems for on-land pipelines, as defined in ISO 13623, for the petroleum and natural gas industries. Applicable to buried carbon steel and stainless steel pipelines on land. Also applicable to landfalls of offshore pipeline sections protected by onshore-based cathodic protection installations. Applicable to retrofits, modifications and repairs made to existing pipeline systems.
SANS 15589-2:2009/ ISO 15589-2:2004	<i>Petroleum and natural gas industries – Cathodic protection of pipeline transportation systems – Part 2: Offshore pipelines.</i> Specifies requirements and gives recommendations for the pre-installation surveys, design, materials, equipment, fabrication, installation, commissioning, operation, inspection and maintenance of cathodic protection systems for offshore pipelines for the petroleum and natural gas industries as defined in ISO 13623. Applicable to carbon and stainless steel pipelines in offshore service. Applicable to retrofits, modifications and repairs made to existing pipeline systems. Applicable to all types of seawater and seabed environments encountered in submerged conditions and on risers up to mean water level.
SANS 15609-5:2009/ ISO 15609-5:2004	<i>Specification and qualification of welding procedures for metallic materials – Welding procedure specification – Part 5: Resistance welding.</i> Specifies requirements for the content of welding procedure specifications for resistance welding.
SANS 16135:2009/ ISO 16135:2006	<i>Industrial valves – Ball valves of thermoplastics materials.</i> Specifies requirements for the design, functional characteristics and manufacture of ball valves made of thermoplastics materials.

Standard No. and year	Title, scope and purport
SANS 17229:2009/ ISO 17229:2002	<i>Leather – Physical and mechanical tests – Determination of water vapour absorption.</i> Specifies a method for determining the water vapour absorption of leather. The method is applicable to all leathers but is particularly relevant for leathers intended for footwear uppers and linings.
SANS 17235:2009/ ISO 17235:2002	<i>Leather – Physical and mechanical tests – Determination of softness.</i> Specifies a non destructive method for determining the softness of leather. The method is applicable to all non-rigid leathers e.g. Shoe upper leather, upholstery leather, leathersgoods leather and apparel leather.
SANS 19092:2009/ ISO 19092:2008	<i>Financial services – Biometrics – Security framework.</i> Describes the security framework for using biometrics for authentication of individuals in financial services. It introduces the types of biometric technologies and addresses issues concerning their application. It also describes the architectures for implementation, specifies the minimum security requirements for effective management, and provides control objectives and recommendations suitable for use by a professional practitioner.
SANS 19141:2009/ IEC 19141:2008	<i>Geographic information – Schema for moving features.</i> Describes the geometry of a feature that moves as a rigid body, motion may be moved influenced by physical forces, such as orbital, gravitational and inertial forces. It moves within any domain composed of spatial objects as specified in SANS 19107.
SANS 20864:2009/ ISO 20864:2004	<i>Footwear – Test methods for stiffeners and toepuffs – Mechanical characteristics.</i> Specifies three methods for determining the shape retention properties and compression strength of a domed test specimen. These methods are the following and they are applicable to footwear toepuffs and stiffeners: Method 1: Applicable to heat activated materials Method 2: Applicable to solvent activated materials Method 3: Applicable to non-thermoplastic fibreboard
SANS 22775:2009/ ISO 22775:2004	<i>Footwear – Test methods for accessories: Metallic accessories – Corrosion resistance.</i> Specifies two methods for determining the propensity of a metal surface to either change visually due to contamination by atmospheric pollution (sulphide tarnishing) or to corrode due to the action of salt water (salt water corrosion).
SANS 52094-1:2009/ EN 12094-1:2003	<i>Fixed firefighting systems – Components for gas extinguishing systems – Part 1: Requirements and test methods for electrical automatic control and delay devices.</i> Specifies requirements and test methods for electrical automatic control and delay devices (e.c.d.) for use in combination with automatic fire detection and fire alarm systems and carbon dioxide-, inert gas- or halocarbon gas-fire extinguishing systems installed in buildings. Specifies compulsory functions which shall be provided on all electrical automatic control and delay devices and optional functions (options with requirements) which may be provided.
SANS 52094-2:2009/ EN 12094-2:2003	<i>Fixed firefighting systems – Components for gas extinguishing systems – Part 2: Requirements and test methods for non-electrical automatic control and delay devices.</i> Specifies requirements and test methods for non-electrical automatic control devices incorporating non-electrical delay devices for carbon dioxide-, inert gas- or halocarbon gas-fire extinguishing systems. Applies to devices which may be triggered by automatic fire detection installation, electrical control device, non-electrical special fire detector, manual triggering device, or a combination of the above. Covers devices which are powered pneumatically, mechanically or by a combination of both.
SANS 52094-3:2009/ EN 12094-3:2003	<i>Fixed firefighting systems – Components for gas extinguishing systems – Part 3: Requirements and test methods for manual triggering and stop devices.</i> Specifies requirements and describes test methods for manual triggering and stop devices of carbon dioxide-, inert gas- or halocarbon gas- fire extinguishing systems.
SANS 52094-4:2009/ EN 12094-4:2004	<i>Fixed firefighting systems – Components for gas extinguishing systems – Part 4: Requirements and test methods for container valve assemblies and their actuators.</i> Specifies requirements and describes test methods for container valve assemblies for carbon dioxide- high-pressure-, inert gas- or halocarbon gas-fire extinguishing systems, which include a container valve, an actuator and possibly a diptube. Specifies requirements and describes test methods for features of the component relevant only for its use in fire extinguishing installations. Does not cover diptubes not assembled to the container valves.
SANS 53121-1:2009/ EN 13121-1:2003	<i>GRP tanks and vessels for use above ground – Part 1: Raw materials – Specification conditions and acceptance conditions.</i> Gives requirements for specification and acceptance conditions of raw materials for GRP tanks and vessels with or without lining for storage or processing of fluids, factory made or site built, non pressurised or pressurised, for use above ground.
SANS 53121-2:2009/ EN 13121-2:2003	<i>GRP tanks and vessels for use above ground – Part 2: Composite materials – Chemical resistance.</i> Gives requirements for chemical resistance of composite materials used for GRP tanks and vessels for storage or processing of fluids, for use above ground. The tanks or vessels may be factory made or site built, with or without lining.
SANS 53121-3:2009/ EN 13121-3:2008	<i>GRP tanks and vessels for use above ground – Part 3: Design and workmanship.</i> Gives requirements for the design, fabrication, inspection, testing and verification of GRP tanks and vessels with or without thermoplastics lining for storage or processing of fluids, factory made or site built, non pressurised or pressurised up to 10 bar, for use above ground.
SANS 53121-4:2009/ EN 13121-4:2005	<i>GRP tanks and vessels for use above ground – Part 4: Delivery, installation and maintenance.</i> Gives requirements for delivery, installation and maintenance of GRP tanks and vessels in accordance with prEN 13121-3.
SANS 53149-3:2009/ CEN/TS 13149-3:2007	<i>Public transport – Road vehicle scheduling and control systems – Part 3: WorldFIP message content.</i> Specifies the choice and the general application rules of an onboard data transmission bus between the different equipment for service operations and monitoring of the fleet. Applies to equipment installed onboard buses, trolley-buses and tramways only as part of a bus fleet operation. Describes the WorldFIP-based network bus system and covers the link between equipment inside a single vehicle with application profiles for a simple network.
SANS 55504:2009/ CEN/TS 15504:2007	<i>Public transport – Road vehicles – Visible variable passenger information devices inside the vehicle.</i> Outlines the requirements for electronic Interior Variable Message Signs (IVMS) for the presentation of dynamic passenger information in public transport vehicles. Applies to different IVMS systems mounted in public transport vehicles and specifies the installation location, dimensions, characteristics of the sign system, information contents and cabling.
SANS 60974-2:2009/ IEC 60974-2:2007	<i>Arc welding equipment – Part 2: Liquid cooling systems.</i> Specifies safety and construction requirements for industrial and professional liquid cooling systems used in arc welding and allied processes to cool torches. Is applicable to stand-alone liquid cooling systems that are either connected to a separate welding power source or built into the welding power source enclosure.

Standard No. and year	Title, scope and purport
SANS 61057:2009/ IEC 61057:1991	<i>Aerial devices with insulating boom used for live working.</i> Applicable to aerial devices (mobile elevating work platforms (MEWP)), with or without the possibility of an additional jib, as a minimum with an insulating upper boom (extending structure), used for live working on the nominal voltage, which is between 1 kV r.m.s. and 800 kV r.m.s., at power frequency.
SANS 61094-1:2009/ IEC 61094-1:2000	<i>Measurement microphones – Part 1: Specifications for laboratory standard microphones.</i> Specifies mechanical dimensions and certain electroacoustic characteristics for condenser microphones used as laboratory standards for the realization of the unit of sound pressure and for sound pressure measurements of the highest attainable accuracy. Intends to ensure that primary calibration by the reciprocity method can be readily carried out.
SANS 61094-2:2009/ IEC 61094-2:2009	<i>Electroacoustics – Measurement microphones – Part 2: Primary method for pressure calibration of laboratory standard microphones by the reciprocity technique.</i> Specifies a primary method of determining the complex pressure sensitivity so as to establish a reproducible and accurate basis for the measurement of sound pressure.
SANS 61094-5:2009/ IEC 61094-5:2001	<i>Measurement microphones – Part 5: Methods for pressure calibration of working standard microphones by comparison.</i> Describes methods of determining the pressure sensitivity by comparison with either a laboratory standard microphone that has been calibrated according to IEC 61094-2, or another working standard microphone that has been calibrated according to IEC 61094-5 (both IEC 61094-2 and IEC 61094-5 are published in South Africa as identical adoptions under the designations SANS 61094-2 and SANS 61094-5).
SANS 61439-2:2009/ IEC 61439-2:2009	<i>Low-voltage switchgear and controlgear assemblies – Part 2: Power switchgear and controlgear assemblies.</i> Defines the specific requirements of power switchgear and controlgear assemblies (PSC-ASSEMBLIES), the rated voltage of which does not exceed 1 000 V a.c. or 1 500 V d.c.
SANS 61534-22:2009/ IEC 61534-22:2009	<i>Powertrack systems – Part 22: Particular requirements for powertrack systems intended for on floor or under floor installation.</i> Applies to power track systems that are intended to be mounted on, or under the floor level and floor service units which are mounted on the floor, under the floor or flush with the floor.
SANS 61535:2009/ IEC 61535:2009	<i>Installation couplers intended for permanent connection in fixed installations.</i> Applies to two up to five wire installation couplers including earth, if provided, with a rated voltage up to and including 500 V a.c. and a rated connecting capacity up to and including 10 mm <sup>2</sup> for permanent connection in indoor electrical installations.
SANS 61914:2009/ IEC 61914:2009	<i>Cable cleats for electrical installations.</i> Specifies requirements and tests for cable cleats and intermediate restraints used for securing cable in electrical installations. Cable cleats provide resistance to electromechanical forces where declared.
SANS 62271-104:2009/ IEC 62271-104:2009	<i>High-voltage switchgear and controlgear – Part 104: Alternating current switches for rated voltages of 52 kV and above.</i> Applicable to three-pole alternating current switches for rated voltages 52 kV and above, that have making and breaking current ratings, for indoor and outdoor installations, and for rated frequencies up to and including 60 Hz.

## SCHEDULE 2: AMENDMENT OF EXISTING STANDARDS

The standards mentioned have been amended in terms of section 16(3) of the Act. The number and date of a standard that has been superseded appear in brackets below the new number. In the case of an amendment issued in consolidated format, the edition number of the new (consolidated) edition appears in brackets below the number of the standard.

Standard No. and year	Title, scope and purport
SANS 44:2009/ ISO 544:2003 (SABS ISO 544:1989)	<i>Welding consumables – Technical delivery conditions for welding filler materials – Type of product, dimensions, tolerances and markings.</i> Specifies technical delivery conditions for filler materials for fusion welding. It does not apply to auxiliaries such as shielding gases.
SANS 373-1:2009	<i>Reprocessing of endoscopes – Part 1: Flexible endoscopes and accessories.</i> Provides a code of practice for the preparation of flexible fiber-optic endoscopes, video endoscopes and the reusable endoscopic accessories used with flexible endoscopes, for reuse, either manually or using automatic endoscope reprocessors. It covers the requirements for personnel responsible for reprocessing endoscopes and for the reprocessing environments in healthcare facilities.
SANS 456:2009 (Ed. 2.4)	<i>Corrugated board containers. Consolidated edition incorporating amendment No. 4.</i> Amended to change the designation of SABS standards to SANS standards, to update the definition of "acceptable", to update referenced standards, and to delete a requirement for the resistance to rough handling (revolving drum) test.
SANS 545:2009 (Ed. 3.4)	<i>Wooden doors. Consolidated edition incorporating amendment No. 3.</i> Amended to change the designation of SABS standards to SANS standards, to update the definition of "acceptable", to update referenced standards, and to remove reference to the standardization mark.
SANS 602:2007/ ISO Guide 30:1992	<i>Terms and definitions used in connection with reference materials. ISO amendment No. 1.</i> Amended to revise the definitions for reference material, certified reference material and to replace the existing bibliography.
SANS 1044:2009 (SABS 1044:1991)	<i>Industrial laundry detergents.</i> Specifies the characteristics of four types of low-foam industrial laundry detergent intended for use in industrial laundering machines for the washing, in either hard or soft water, of textiles made of cotton or of cotton-and-synthetic fibre yarns.
SANS 1196:2009 (SABS 1196:2001)	<i>Detergent-disinfectants based on organic halogen compounds (other than iodine compounds).</i> Specifies requirements for two types of detergent-disinfectants that contain organic halogen compounds (other than iodine compounds) such as fluorine, bromine or chlorine, in which the halogen(s) is (are) directly linked to nitrogen and that also contain other chemical agents (such as compatible surface-active agents and phosphates) that are miscible with water and intended for use on inanimate surfaces that have been cleaned with potable water and have had gross soil removed, and are free from visible soil. It is intended for the evaluation of detergent-disinfectants for general use.

Standard No. and year	Title, scope and purport
SANS 1265:2009 (Ed. 1.3)	<i>Waxy oil obtained from the synthol process and from other petroleum sources. Consolidated edition incorporating amendment No. 3.</i> Amended to change the designation of SABS standards to SANS standards, and to update referenced standards.
SANS 1343:2009 (SABS 1343:1985)	<i>Insecticidal solid fumigants that contain aluminium phosphide (food storage premises).</i> Covers insecticidal solid fumigants that contain aluminium phosphide and are intended for use in the fumigation of food storage premises. It includes requirements for raw materials, for the formulation, for the phosphine gas produced and for biological efficacy.
SANS 1344:2009 (SABS 1344:2003)	<i>Medium duty solvent detergent.</i> Covers a concentrated alkaline liquid cleaning compound containing synthetic detergents and organic solvents, and that is intended for the cleaning of painted and unpainted surfaces, plastics surfaces, and the surfaces of equipment, walls and floors that are soiled with oil, grease and similar soils.
SANS 1654:2009 (SABS 1654:2004)	<i>DC-powered (battery-operated) machines for use in hazardous locations in mines.</i> Specifies requirements for d.c.-powered (battery-operated) machines for use in hazardous locations in mines.
SANS 1657:2009 (Ed. 2.1)	<i>Bottled water of subterranean origin. Consolidated edition incorporating amendment No. 1.</i> Amended to change the value of nitrite in table 1 and the values of copper and nitrate in table 2, and to include the words "on the label" in the declaration of the composition of the product (8.2.3.1).
SANS 1906:2009	<i>Non-pressure paraffin stoves and heaters.</i> Covers the requirements for the construction, operation and safe use of paraffin fuelled appliances primarily intended for domestic use with a gauge pressure close to the burner < 2 kPa and with a maximum heat rating of 4,5 kW for a single burner.
SANS 1910:2009 (Ed. 1.2)	<i>Portable refillable fire extinguishers. Consolidated edition incorporating amendment No. 2.</i> Amended to move reference to legislation to the forward, to update the title of the annex on indication of test fire rating, and to add tables for minimum fire ratings.
SANS 1922:2009 (Ed. 1.2)	<i>Acidic cleaners for the cleaning of acid-resistant sanitary ware. Consolidated edition including amendment No. 2.</i> Amended to change the acidity content of sulfuric acid from a minimum to a maximum percentage.
SANS 5621:2009 (SABS SM 621:1972)	<i>Determination of total ash content of leather.</i> Specifies a method for the determination of total ash content of leather.
SANS 6094:2009 (SABS SM 1094:1987)	<i>Stock remedies – Efficacy of chemicals against tick larvae.</i> Specifies a method for the determination of the efficacy of a chemical compound (at various concentrations) against tick larvae and to compare, under laboratory conditions, the efficacy to that of a known effective concentration of a reference formulation.
SANS 6095:2009 (SABS SM 1095:1987)	<i>Stock remedies – Efficacy of chemicals against adult ticks.</i> Specifies a method for the determination of the efficacy of a chemical compound (at various concentrations) against engorged adult female ticks, as indicated by their reproductive ability after treatment.
SANS 6096:2009 (SABS SM 1096:1987)	<i>Stock remedies – Efficacy confirmation of tickicides on cattle.</i> Specifies a method for the determination of the effective concentration of a spray, dip or pour-on formulation, or of an impregnated device, or the effective dosage of a systemic formulation (whether administered orally or parenterally) against tick infestation. It also specifies a method for the determination of the duration of the effect of a single treatment or application and for the efficacy of repeated treatments against the tick species with the shortest duration of sensitivity to a single treatment.
SANS 6097:2009 (SABS SM 1097:2009)	<i>Stock remedies – Stripping rate of cattle tickicides in spray races.</i> Specifies a method for the determination of the rate of stripping (selective removal of the active ingredient) of the commercial formulation of a cattle tickicide intended for use in spray races and plunge-dipping tanks in order to calculate a suitable replenishment rate.
SANS 6098:2009 (SABS SM 1098:1987)	<i>Stock remedies – Stability of cattle tickicides in plunge-dipping tanks.</i> Specifies a method for testing the validity of the recommended replenishment rate and the continued efficacy of the active ingredient under commercial plunge-dipping conditions, as well as the continued stability of the active ingredient under various field conditions.
SANS 8601:2009/ ISO 8601:2004	<i>Data elements and interchange formats – Information interchange – Representation of dates and times.</i> Applies whenever representation of dates in the Gregorian calendar, times in the 24-hour timekeeping system, time intervals and recurring time intervals or of the formats of these representations are included in information interchange. Does not cover dates and times where words are used in the representation and dates and times where characters are not used in the representation.
SANS 10109-1:2009 (SABS 0109-1:1995)	<i>Concrete floors – Part 1: Bases to concrete floors.</i> Covers the design, detailing, materials and construction of types of concrete floors that are cast on the ground and are subjected to industrial and commercial loads. It does not cover domestic floors or floors that are subjected to vibrating loads.
SANS 10366:2009	<i>Health and safety at events – Requirements.</i> Specifies minimum requirements for the planning, organizing and staging of events by an event organizer, whether an individual or an organization.
SANS 13818-1:2008/ IEC 13818-1:2007 (SABS ISO/IEC 13818-1:2007)	<i>Information technology – Generic coding of moving pictures and associated audio information: Systems. ISO/IEC corrigendum No. 1.</i> Corrected to replace the descriptor tag and to define the stream_id and the stream_id_extension. <i>ISO/IEC amendment No. 2.</i> Amended to define the carriage of auxiliary video streams.
SANS 18000-3:2009/ ISO/IEC 18000-3:2008	<i>Information technology – Radio frequency identification for item management – Part 3: Parameters for air interface communications at 13,56 MHz.</i> Provides physical layer, collision management system and protocol values for radio frequency identification (RFID) systems for item identification in accordance with the requirements of ISO 18000-1 (published in South Africa as an identical adoption under the designation SANS 18000-1). Relates solely to systems operating at 13,56 MHz. Has two modes of operation, intended to address different applications that are not interoperable and are non-interfering. Shown in the parameter tables are the detailed technical differences between the modes.

Standard No. and year	Title, scope and purport
SANS 18000-4:2009/ ISO/IEC 18000-4:2008	<i>Information technology – Radio frequency identification for item management – Part 4: Parameters for air interface communications at 2,45 GHz.</i> Defines the air interface for radio frequency identification (RFID) devices operating in the 2,45 GHz Industrial, Scientific, and Medical (ISM) band used in item management applications. Provides a common technical specification for RFID devices. Defines communication link parameters for technical attributes. Further defines the communications protocol used in the air interface. Shows detailed technical differences of the passive tag and battery-assisted tag modes in the parameter tables.
SANS 20048:2009/ ECE R48:2008 (SABS ECE R48:2007)	<i>Uniform provisions concerning the approval of vehicles with regard to the installation of lighting and light-signalling devices.</i> Applies to vehicles of categories M, N, and to their trailers (category O) with regard to the installation of lighting and light-signalling devices. <i>ECE amendment No. 1.</i> Corrected to change the clause on individual specifications. <i>ECE corrigendum No. 1.</i> Applies to the French text only. <i>ECE corrigendum No. 2.</i> Corrected to change the subclauses on tell-tale and electrical connections. <i>ECE amendment No. 2.</i> Amended to delete a footnote to a definition and to renumber the remaining footnotes, to change the clauses on approval, individual specifications, and transitional provisions, and to change the annex on arrangement of approval marks. <i>ECE amendment No. 3.</i> Amended to change certain definitions, and to change, to add and to renumber footnotes in the clauses on approvals, general specifications and individual specifications. <i>ECE corrigendum No. 1. to ECE amendment No. 1.</i> Corrected to change the clause on individual specifications.
SANS 20049:2009/ ECE R49:2008	<i>Uniform provisions concerning the measures to be taken against the emission of gaseous and particulate pollutants from compression-ignition engines for use in vehicles, and the emission of gaseous pollutants from positive-ignition engines fuelled with natural gas or liquefied petroleum gas for use in vehicles.</i> Applies to vehicles of categories M and N and their engines with regard to the tests foreseen for these engines. Also applies to the installation of these engines on vehicles. <i>ECE corrigendum No. 1.</i> Corrected to change the subclause on power absorbed at various indicated engine speeds, to change the clause on engine performance, to change the subclause on carbon flow check, to change the subclause on analytical system, to change a footnote in the subclause on diesel reference fuel for testing engines, to change the subclause on data stream information, and to change the subclause on access to OBD information.
SANS 29001:2009/ ISO/TS 29001:2007	<i>Petroleum, petrochemical and natural gas industries – Sector-specific quality management systems – Requirements for product and service supply organizations.</i> Defines the quality management system for product and service supply organizations for the petroleum, petrochemical and natural gas industries.
SANS 53121-4:2009/ EN 13121-4:2005	<i>GRP tanks and vessels for use above ground – Part 4: Delivery, installation and maintenance. En corrigendum No. 1.</i> Corrected to add information in the keys in the table on allowable lifting methods for straight vertical lift.
SANS 60079-17:2009/ IEC 60079-17:2007 (SABS IEC 60079-17:2003)	<i>Explosive atmospheres – Part 17: Electrical installations inspection and maintenance.</i> Applies to users and covers factors directly related to the inspection and maintenance of electrical installations within hazardous areas only, where the hazard may be caused by flammable gases, vapours, mists, dusts, fibres or flyings.
SANS 60079-27:2009/ IEC 60079-27:2008	<i>Explosive atmospheres – Part 27: Fieldbus intrinsically safe concept (FISCO).</i> Contains the details of apparatus, systems and installation practice for use with the Fieldbus Intrinsically Safe Concept (FISCO).
SANS 61057:2009/ IEC 61057:1991	<i>Aerial devices with insulating boom used for live working. IEC corrigendum No. 1.</i> Corrected to change "trifluorotrchloroethane solution (CF <sub>2</sub> ClCFCl <sub>2</sub> )" to read "isopropanol (CH <sub>3</sub> -CH(OH)-CH <sub>3</sub> )" and to add a cautionary note to the general test conditions.
SANS 60335-2-15:2009/ IEC 60335-2-15:2005 (Ed. 3.1)	<i>Household and similar electrical appliances – Safety – Part 2-15: Particular requirements for appliances for heating liquids. Consolidated edition incorporating amendment No. 1.</i> Amended to add to the introduction, to change a definition, to change requirements for heat testing, for the moisture resistance of steam sterilizers and spillage of espresso coffee-makers, and to add a referenced standard to the bibliography.
SANS 60335-2-38:2009/ IEC 60335-2-38:2008 (Ed. 4.1)	<i>Household and similar electrical appliances – Safety – Part 2-38: Particular requirements for commercial electric griddles and griddle grills. Consolidated edition incorporating amendment No. 1.</i> Amended to add to the introduction, to add an ingress protection rating to the classification criteria, to modify marking and instruction requirements for persons with reduced capabilities, to modify the test for construction requirements for thermal cut-outs, and to add a referenced standard to the bibliography.
SANS 60335-2-39:2009/ IEC 60335-2-39:2008 (SABS IEC 60335-2-39:2006) (Ed. 4.1)	<i>Household and similar electrical appliances – Safety – Part 2-39: Particular requirements for commercial electric multi-purpose cooking pans. Consolidated edition incorporating amendment No. 1.</i> Amended to add to the foreword and introduction, to add a note on the name of a type of multi-purpose cooking pan, to add an ingress protection rating to the classification criteria, to modify marking and instruction requirements for persons with reduced capabilities, to modify the test for construction requirements for thermal cut-outs, and to add a referenced standard to the bibliography.
SANS 60335-2-43:2009/ IEC 60335-2-43:2008 (Ed. 3.2)	<i>Household and similar electrical appliances – Safety – Part 2-43: Particular requirements for clothes dryers and towel rails. Consolidated edition incorporating amendment No. 2.</i> Amended to add to the introduction, to add a cautionary statement regarding challenged persons including children, to add a definition, to add requirements for marking and instructions, and for stability and mechanical hazards, and to add a referenced standard to the bibliography.
SANS 60335-2-54:2009/ IEC 60335-2-54:2008	<i>Household and similar electrical appliances – Safety – Part 2-54: Particular requirements for surface-cleaning appliances for household use employing liquids or steam.</i> Deals with the safety of electric cleaning appliances for household use that are intended for cleaning surfaces such as windows, walls and empty swimming pools by using liquid cleansing agents or steam, their rated voltage being not more than 250 V. Also covers wallpaper strippers.
SANS 60335-2-56:2009/ IEC 60335-2-56:2008 (SABS IEC 60335-2-56:2003) (Ed. 3.1)	<i>Household and similar electrical appliances – Safety – Part 2-56: Particular requirements for projectors and similar appliances. Consolidated edition incorporating amendment No. 1.</i> Amended to add to the introduction, to add a cautionary statement regarding challenged persons including children, to do editorial corrections and to add a referenced standard to the bibliography.

Standard No. and year	Title, scope and purport
SANS 60335-2-60:2009/ IEC 60335-2-60 (Ed. 3.2)	<i>Household and similar electrical appliances – Safety – Part 2-60: Particular requirements for whirlpool baths and whirlpool spas. Consolidated edition incorporating amendment No. 2.</i> Amended to add to the foreword and the introduction, to add a cautionary statement regarding challenged persons including children, and to add a referenced standard to the bibliography.
SANS 60335-2-65:2009/ IEC 60335-2-65:2008 (Ed. 2.1)	<i>Household and similar electrical appliances – Safety – Part 2-65: Particular requirements for air-cleaning appliances. Consolidated edition incorporating amendment No. 1.</i> Amended to add to the introduction, to add a cautionary statement regarding challenged persons including children, to delete a requirement for protection against access to live parts, and to add a referenced standard to the bibliography.
SANS 60335-2-83:2009/ IEC 60335-2-83:2008	<i>Household and similar electrical appliances – Safety – Part 2-83: Particular requirements for heated gullies for roof drainage. Consolidated edition incorporating amendment No. 1.</i> Amended to add to the foreword and the introduction, to add a cautionary statement regarding challenged persons including children, and to update referenced standards.
SANS 60335-2-101:2009/ IEC 60335-2-101:2008 (Ed. 1.1)	<i>Household and similar electrical appliances – Safety – Part 2-101: Particular requirements for vaporizers. Consolidated edition incorporating amendment No. 1.</i> Amended to add to the foreword and the introduction, to add a cautionary statement regarding challenged persons including children, to do an editorial correction and to add a referenced standard to the bibliography.
SANS 60598-1:2009/ IEC 60598-1:2008	<i>Luminaires – Part 1: General requirements and tests.</i> Specifies general requirements for luminaires, incorporating electric light sources for operation from supply voltage up to 1000 V. Also covers classification, marking, mechanical construction and electrical construction.
SANS 60745-2-9:2009/ IEC 60745-2-9:2008 (Ed. 2.1)	<i>Hand-held motor-operated electric tools – Safety – Part 2-9: Particular requirements for tappers. Consolidated edition incorporating amendment No. 1.</i> Amended to add to the scope and to change the requirements for mechanical strength and construction and requirements in annexes K and Annex L.
SANS 60745-2-20:2009/ IEC 60745-2-20:2008 (Ed. 1.1)	<i>Hand-held motor-operated electric tools – Safety – Part 2-20: Particular requirements for band saws. Consolidated edition incorporating amendment No. 1.</i> Amended to include electromagnetic phenomena that can affect the safe operation of band saw appliances, to include editorial modifications, to add requirements relating to exposed metal parts, to add construction requirements and to add safety requirements to annexes K and L.
SANS 60947-7-1:2009/ IEC 60947-7-1:2009 (SABS IEC 0947-7-1:2003)	<i>Low-voltage switchgear and controlgear – Part 7-1: Ancillary equipment – Terminal blocks for copper conductors.</i> Specifies requirements for terminal blocks with screw-type or screwless-type clamping units primarily intended for industrial or similar use and to be fixed to a support to provide electrical and mechanical connection between copper conductors.
SANS 60947-7-2:2009/ IEC 60947-7-2:2009	<i>Low-voltage switchgear and controlgear – Part 7-2: Ancillary equipment – Protective conductor terminal blocks for copper conductors.</i> Specifies requirements for protective conductor terminal blocks with PE function up to 120 mm <sup>2</sup> (250 kcmil) and for protective conductor terminal blocks with PEN function equal to and above 10 mm <sup>2</sup> (AWG 8) with screw-type or screwless-type clamping units, primarily intended for industrial applications.
SANS 60947-7-3:2009/ IEC 60947-7-3:2009	<i>Low-voltage switchgear and controlgear – Part 7-3: Ancillary equipment – Safety requirements for fuse terminal blocks.</i> Applies to fuse terminal blocks with screw-type or screwless-type clamping units for the connection of rigid (solid or stranded) or flexible copper conductors for the reception of cartridge fuse-links in accordance with IEC 60127-2, intended primarily for industrial or similar use in circuits not exceeding 1 000 V a.c., up to 1 000 Hz or 1 500 V d.c., and having a maximum short-circuit breaking capacity of 1 500 A.
SANS 61000-4-13:2006/ IEC 61000-4-13:2002	<i>Electromagnetic compatibility (EMC) – Part 4-13: Testing and measurement techniques – Harmonics and interharmonics including mains signalling at a.c. power port, low frequency immunity tests.</i> Amended to delete and add text and figures relating to the 'Meister curve' test, the flat curve test and the sweep frequency test.
SANS 61000-4-14:2003/ IEC 61000-4-14:2002 (Ed. 1.1)	<i>Electromagnetic compatibility (EMC) – Part 4-14: Testing and measurement techniques – Voltage fluctuation immunity test for equipment with input current not exceeding 16 A per phase. IEC amendment No. 2.</i> Amended to change the title of the standard, convert dated to undated references, replace clauses on test levels, replace a table on the characteristics of the test generator, replace and add figures relating to the test sequences of voltage fluctuations, and add a figure on test generator verification load.
SANS 61000-4-27:2009/ IEC 61000-4-27:2009 (Ed. 1.1)	<i>Electromagnetic compatibility (EMC) – Part 4-27: Testing and measurement techniques – Unbalance, immunity test for equipment with input current not exceeding 16 A per phase. Consolidated edition incorporating amendment No. 1.</i> Amended to change the title, and to replace and add new text, and a figure 4 relating to the verification of the characteristics of the test generators.
SANS 61000-4-28:2009/ IEC 61000-4-28:2009 (Ed. 1.2)	<i>Electromagnetic compatibility (EMC) – Part 4-28: Testing and measurement techniques – Variation of power frequency, immunity test for equipment with input current not exceeding 16 A per phase. Consolidated edition incorporating amendment No. 2.</i> Amended to change the title, and to replace and add new text, and a figure 4 relating to the verification of the characteristics of the test generators.
SANS 62271-110:2009/ IEC 62271-110:2009	<i>High-voltage switchgear and controlgear – Part 110: Inductive load switching.</i> Covers a.c. circuit-breakers designed for indoor or outdoor installation, for operation at frequencies of 50 Hz and 60 Hz on systems having voltages above 1 000 V and applied for inductive current switching with or without additional short-circuit current breaking duties.

**SCHEDULE 3: CANCELLATION OF STANDARDS**

In terms of section 16(3) of the Act the following standards have been cancelled.

Standard No. and year	Title
SANS 21:2003	<i>Safety rules for the construction and installation of escalators and passenger conveyors.</i>
SANS 1896:2003	<i>Candles, illuminating.</i>
SANS 5906:1978	<i>Bulk density, bulk volume, apparent porosity, and apparent relative density of dense refractory bricks (evacuation method).</i>
SANS 10401:1989	<i>The construction of dwelling houses in accordance with the National Building Regulations.</i>
SANS 14520-3:2000	<i>Gaseous fire-extinguishing systems – Physical properties and system design – Part 3: FC-2-1-8 extinguishant.</i>
SANS 14520-4:2000	<i>Gaseous fire-extinguishing systems – Physical properties and system design – Part 4: FC-3-1-10 extinguishant.</i>
SANS 14520-7:2000	<i>Gaseous fire-extinguishing systems – Physical properties and system design – Part 7: HCFC 124 extinguishant.</i>
SANS 50868-1:2003	<i>Packaging materials and systems for medical devices which are to be sterilized – Part 1: General requirements and test methods.</i>

**SCHEDULE 4: ADDRESSES OF SABS OFFICES**

The addresses of offices of the South African Bureau of Standards where copies of standards mentioned in this notice can be obtained, are as follows:

1. The CEO, South African Bureau of Standards, 1 Dr Lategan Road, Groenkloof, Private Bag X191, Pretoria 0001.
2. The Manager, Western Cape Regional Office, SABS, Liesbeek Park Way, Rosebank, PO Box 615, Rondebosch 7701.
- 3 The Manager, Eastern Cape Regional Office, SABS, 30 Kipling Road, cor. Diaz and Kipling Roads, Port Elizabeth, PO Box 3013, North End 6056.
4. The Manager, KwaZulu-Natal Regional Office, SABS, 15 Garth Road, Waterval Park, Durban, PO Box 30087, Mayville 4058.
5. The Control Officer, Bloemfontein Branch Office, SABS, 34 Victoria Road, Willows, Bloemfontein, PO Box 20265, Willows 9320.