

## DEPARTMENT OF TRADE AND INDUSTRY

No. 407

25 May 2012

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 the SABS Standards Division (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 148-2:2011/ ISO 148-2:2008	<i>Metallic materials - Charpy pendulum impact test - Part 2: Verification of testing machines.</i> Covers the verification of the constructional elements of pendulum-type impact testing machines. Applicable to machines with 2 mm or 8 mm strikers used for pendulum impact tests carried out, for instance, in accordance with ISO 148-1 (published in South Africa as an identical adoption under the designation SANS 148-1).
SANS 204:2011	<i>Energy efficiency in buildings.</i> Specifies the design requirements for energy efficiency in buildings and of services in buildings with natural environmental control and artificial ventilation or air conditioning systems.
SANS 439:2012	<i>Vests - Short sleeved, long sleeved and athletic type.</i> Covers the material, cut, make and trim of three types of vest.
SANS 789:2012	<i>Knitted jerseys and cardigans.</i> Covers the materials, cut, make and trim of knitted jerseys and cardigans.
SANS 811:2012	<i>Shirts, closed and open neck (uniform and hard-wearing types).</i> Covers the material, cut, make and trim of uniform type and hard-wearing type shirts, with closed or open necks, for men.
SANS 827:2011	<i>The installation of pipes and appliances for use with natural gas.</i> Sets out requirements for the installation of consumer piping, flueing, ventilation and appliance installations which are associated with the use or intended use of fuel gases for natural gas and simulated natural gas. It also covers piping systems from the outlet of the consumer billing meter installation through to the consumer piping from the property boundary.
SANS 863:2011	<i>Continuous totalizing automatic weighing instruments - Belt weighers.</i> Specifies the metrological and technical requirements for continuous totalizing automatic weighing instruments of the belt conveyor type, that are subject to national metrological control. Provides standardized requirements and test procedures for evaluating metrological and technical characteristics in a uniform and traceable way.
SANS 868-3-1:2012	<i>Compression-ignition engine systems and machines powered by such engine systems, for use in mines and plants with explosive gas atmospheres or explosive dust atmospheres or both - Part 3-1: Hazardous locations on surface - Basic explosion-protected engines.</i> Specifies constructional and performance requirements for basic explosion-protected engines for use in hazardous locations in surface plants and works. It facilitates the repair of the engine as a specialized activity.
SANS 868-3-2:2012	<i>Compression-ignition engine systems and machines powered by such engine systems, for use in mines and plants with explosive gas atmospheres or explosive dust atmospheres or both - Part 3-2: Hazardous locations on surface - Explosion-protected engine systems.</i> Specifies constructional and performance requirements for explosion-protected engine systems for use in hazardous locations in surface plants and works. It facilitates the repair of the engine systems as a specialized activity. Can only be used in conjunction with SANS 868-3-1.
SANS 868-3-3:2012	<i>Compression-ignition engine systems and machines powered by such engine systems, for use in mines and plants with explosive gas atmospheres or explosive dust atmospheres or both - Part 3-3: Hazardous locations on surface - Machines.</i> Specifies constructional and performance requirements for machines fitted with compression-ignition engines for use in hazardous locations in surface plants and works. Can only be used in conjunction with SANS 868-3-1 and SANS 868-3-2.
SANS 941:2012	<i>Energy efficiency of electrical and electronic apparatus.</i> Covers energy efficiency requirements, measurement methods and energy efficiency labelling of electrical and electronic apparatus.
SANS 997-4:2011/ ISO 6185-4:2011	<i>Inflatable boats - Part 4: Boats with a hull length of between 8 m and 24 m with a motor power rating of 15 kW and greater.</i> Specifies the minimum safety characteristics required for the design, materials, manufacture and testing of rigid inflatable boats (RIBs) with a hull length of between 8 m and 24 m and with a motor power rating of 15 kW and greater.

Standard No. and year	Title, scope and purport
SANS 1096:2012/ ISO 10244:2010	<i>Document management - Business process baselining and analysis.</i> Specifies the detailed information associated with the activities organizations perform when documenting existing work or business processes (business process baselining), defining the level of information required to be gathered, methods of documenting the processes, and the procedures used when evaluating or analysing the work or business processes. Provides tools for organizations to identify relevant aspects of processes and to document them in a standardized format, thus permitting them to facilitate detailed analysis and identification of relevant technology(ies) so as to improve the processes or procedures.
SANS 1137:2012/ ASTM D1739:1998	<i>Standard test method for collection and measurement of dustfall (settleable particulate matter).</i> Covers a procedure for the collection of dustfall and its measurement. Describes the determination of water-soluble and insoluble particulate matter.
SANS 1160:2011/ NSF/ANSI 61:2010	<i>Drinking water system components - Health effects.</i> Covers specific materials or products that come into contact with drinking water and evaluation of contaminants or impurities that are indirectly imparted to drinking water.
SANS 1180:2011/ ISO 376:2004	<i>Metallic materials - Calibration of force-proving instruments used for the verification of uniaxial testing machines.</i> Covers the calibration of force-proving instruments used for the static verification of uniaxial testing machines (e.g. tension/compression testing machines) and describes a procedure for classifying these instruments. Applies to force-proving instruments in which the force is determined by measuring the elastic deformation of a loaded member or a quantity which is proportional to it.
SANS 1202:2011/ ISO 7389:2002	<i>Building construction - Jointing products - Determination of elastic recovery of sealants.</i> Specifies a method for the determination of the elastic recovery of sealants after maintained extension.
SANS 1203:2011/ ISO 7390:2002	<i>Building construction - Jointing products - Determination of resistance to flow of sealants.</i> Specifies a method for the determination of the resistance to flow of sealants, by loss of cohesion under their own weight.
SANS 1204:2011/ ISO 8339:2005	<i>Building construction - Sealants - Determination of tensile properties (Extension to break).</i> Specifies a method for the determination of the tensile properties of sealants used in joints in building construction.
SANS 1205:2011/ ISO 8340:2005	<i>Building construction - Sealants - Determination of tensile properties at maintained extension.</i> Specifies a method for the determination of the tensile properties at maintained extension of sealants used in joints in building construction.
SANS 1220:2011/ ISO 11600:2002	<i>Building construction - Jointing products - Classification and requirements for sealants.</i> Specifies the types and classes of sealants used in building construction according to their applications and performance characteristics.
SANS 1226:2011/ ISO 9046:2002	<i>Building construction - Jointing products - Determination of adhesion/cohesion properties of sealants at constant temperature.</i> Specifies a method for the determination of the adhesion/cohesion properties of sealants with predominantly plastic behaviour which are used in joints in building construction.
SATS 1286:2011	<i>Local goods, services and works - Measurement and verification of local content.</i> Specifies requirements and procedures to define, measure, declare and verify the local content of goods, services and works when required for procurement and other purposes.
SANS 1313-3:2012	<i>Conveyor belt idlers - Part 3: Performance specifications for troughed belt conveyor idlers (metallic and non-metallic) for idler roller rotational speeds of up to 750 revolutions per minute.</i> Specifies the performance specifications for troughed belt conveyor idlers that have metallic or non-metallic rolls for idler roller rotational speeds of up to 750 revolutions per minute for belt widths of up to and including 2 400 mm.
SANS 2001-DP8:2011	<i>Construction works - Part DP8: Pipe jacking.</i> Covers the insertion, by jacking, of pipelines of diameter not exceeding 3 m under roads and railways, without disturbing the surface or interfering with the normal flow of traffic.
SANS 2444:2011/ ISO 2444:1988	<i>Joints in building - Vocabulary.</i> Defines terms used to describe building joints, their constituent parts and their design in building construction.
SANS 2631-2:2012/ ISO 2631-2:2003	<i>Mechanical vibration and shock - Evaluation of human exposure to whole-body vibration - Part 2: Vibration in buildings (1 Hz to 80 Hz).</i> Covers the evaluation of human exposure to whole-body vibration and shock in buildings with respect to the comfort and annoyance of the occupants. Specifies a method for the measurement and evaluation, comprising the determination of the measurement direction and measurement location. Defines the frequency weighting that is applicable in the frequency range 1 Hz to 80 Hz where the posture of an occupant does not need to be defined.
SANS 2631-4:2012/ ISO 2631-4:2001	<i>Mechanical vibration and shock - Evaluation of human exposure to whole-body vibration - Part 4: Guidelines for the evaluation of the effects of vibration and rotational motion on passenger and crew comfort in fixed-guideway transport systems.</i> Gives guidelines on the evaluation of the effects of mechanical vibration on the comfort of passengers and crew on fixed-guideway systems. Establishes methods for the evaluation of relative comfort between systems as opposed to absolute levels of comfort. These systems include heavy and light rail, magnetic levitated systems and rubber tyre metro-type systems. Provides guidance on the effects of very low frequency accelerations (0,1 Hz to 0,5 Hz) experienced as vertical forces that may cause kinetosis.
SANS 2631-5:2012/ ISO 2631-5:2004	<i>Mechanical vibration and shock - Evaluation of human exposure to whole-body vibration - Part 5: Method for evaluation of vibration containing multiple shocks.</i> Covers human exposure to mechanical multiple shocks measured at the seat pad when a person is seated. The calculation of the lumbar spine response assumes that the person subjected to the vibration is seated in an upright position and does not voluntarily rise from the seat during the exposure. This method is generally applicable in cases where adverse health effects in the lumbar spine are concerned.

SANS 3001-AG20:2011	<i>Civil engineering test methods - Part AG20: Determination of the bulk density, apparent density and water absorption of aggregate particles retained on the 5 mm sieve for road construction materials.</i> Describes a method to prepare a test sample and to determine the bulk density, apparent density and water absorption parameters on aggregate particles retained on the 5 mm sieve.
SANS 3001-AG21:2011	<i>Civil engineering test methods - Part AG21: Determination of the bulk density, apparent density and water absorption of aggregate particles passing the 5 mm sieve for road construction materials.</i> Describes a method to prepare a test sample and to determine the parameters of the bulk density, apparent density and water absorption on materials passing the 5 mm sieve size.
SANS 3001-AS1:2011	<i>Civil engineering test methods - Part AS1: Making of asphalt briquettes for Marshall tests and other specialized tests.</i> Describes a method for preparing and compacting asphalt briquettes of 101,5 mm diameter and 63,5 mm in height with a maximum aggregate size of 20 mm.
SANS 3001-AS2:2011	<i>Civil engineering test methods - Part AS2: Determination of Marshall stability, flow and quotient.</i> Specifies a method for determining the stability, flow and quotient values for cylindrical asphalt briquettes of 101,5 mm diameter and 63,5 mm in height consisting of a maximum 20 mm aggregate size, loaded on the lateral surface by means of the Marshall apparatus.
SANS 3001-AS10:2011	<i>Civil engineering test methods - Part AS10: Determination of bulk density and void content of compacted asphalt.</i> Describes a method for determining the bulk density and void content of asphalt briquettes, cores or block samples.
SANS 3001-AS11:2011	<i>Civil engineering test methods - Part AS11: Determination of the maximum void-less density of asphalt mixes and the quantity of binder absorbed by the aggregate.</i> Describes a method for determining the maximum void-less density of an asphalt mix and the amount of binder absorbed by the aggregate.
SANS 3001-AS20:2011	<i>Civil engineering test methods - Part AS20: Determination of the soluble binder content and particle size analysis of an asphalt mix.</i> Describes a method to quantitatively determine the binder content and particle size analysis of an asphalt mix by extracting the binder from the mixture with an organic solvent and as part of the procedure, moisture content is determined.
SANS 3001-PR2:2011	<i>Civil engineering test methods - Part PR2: Use and assessment of repeat, check or duplicate tests.</i> Describes a method to determine whether a repeat, check or duplicate test result differs significantly from the original or first result.
SANS 3012:2011	<i>Pavement management systems - Standard visual assessment manual for unsealed roads.</i> Provides national guidelines for the visual assessment of the condition and performance of unsealed roads for use in gravel road management systems, maintenance programming and the monitoring of experiments.
SANS 4001-BT1:2012	<i>Civil engineering test methods - Part BT1: Penetration grade bitumen.</i> Applies to bituminous materials and covers the requirements for four penetration grades of bitumen suitable for road construction and similar purposes.
SANS 4001-BT2:2012	<i>Civil engineering test methods - Part BT2: Cutback bitumen.</i> Applies to bituminous materials and covers the requirements for three types of cutback bitumen suitable for road construction and similar purposes.
SANS 4224:2012/ ISO 4224:2000	<i>Ambient air - Determination of carbon monoxide - Non-dispersive infrared spectrometry method.</i> Specifies a non-dispersive infrared spectrometry method for the continuous analysis and recording of the carbon monoxide (CO) content of the ambient air.
SANS 4642-1:2011/ ISO 4642-1:2009	<i>Rubber and plastics hoses, non-collapsible, for fire-fighting service - Part 1: Semi-rigid hoses for fixed systems.</i> Specifies the requirements and test methods for semi-rigid reel hoses for fire-fighting purposes for use with fixed systems.
SANS 4642-2:2011/ ISO 4642-2:2009	<i>Rubber and plastics hoses, non-collapsible, for fire-fighting service - Part 2: Semi-rigid hoses (and hose assemblies) for pumps and vehicles.</i> Specifies the requirements and test methods for semi-rigid reel hoses for use on fire-fighting vehicles and trailer pumps.
SANS 4664-1:2011/ ISO 4664-1:2005	<i>Rubber, vulcanized or thermoplastic - Determination of dynamic properties - Part 1: General guidance.</i> Provides guidance on the determination of dynamic properties of vulcanized and thermoplastic rubbers.
SANS 4664-2:2011/ ISO 4664-2:2006	<i>Rubber, vulcanized or thermoplastic - Determination of dynamic properties - Part 2: Torsion pendulum methods at low frequencies.</i> Specifies methods, using a torsion pendulum, of determining the dynamic properties in shear, that is the shear modulus and mechanical damping, of vulcanized or thermoplastic rubbers over a wide temperature range.
SANS 6767:2012/ ISO 6767:1990	<i>Ambient air - Determination of the mass concentration of sulfur dioxide - Tetrachloromercurate (TCM)/pararosaniline method.</i> Specifies a spectrophotometric method, known as the tetrachloromercurate (TCM)/pararosaniline method, for the determination of the mass concentration of sulfur dioxide in ambient air.
SANS 6927:2011/ ISO 6927:1981	<i>Building construction - Jointing products - Sealants - Vocabulary.</i> Defines technical terms for sealants for building purposes and applies to joints filled with hardening, plastic or elastic materials which are not preformed.
SANS 7996:2012/ ISO 7996:1985	<i>Ambient air - Determination of the mass concentration of nitrogen oxides - Chemiluminescence method.</i> Specifies a chemiluminescence method for the determination of the mass concentration of nitrogen oxides present in ambient air.
SANS 8394-1:2011/ ISO 8394-1:2010	<i>Building construction - Jointing products - Part 1: Determination of extrudability of sealants.</i> Specifies a method for determining the extrudability of sealants and for use in testing the extrudability of a sealant. Does not apply to the classification of sealants.

SANS 8394-2:2011/ ISO 8394-2:2010	<i>Building construction - Jointing products - Part 2: Determination of extrudability of sealants using standardized apparatus.</i> Specifies a method for determining the extrudability of sealants independently of the package in which they are supplied. Is not applicable to the classification of sealants.
SANS 8559:2012/ ISO 8559:1989	<i>Garment construction and anthropometric surveys - Body dimensions.</i> Defines the standard method of measuring people for the preparation of garment patterns and garment construction. Covers horizontal measurements (including girth), vertical measurements and other measurements.
SANS 9855:2012/ ISO 9855:1993	<i>Ambient air - Determination of the particulate lead content of aerosols collected on filters - Atomic absorption spectrometric method.</i> Specifies a method based on acid digestion and atomic absorption spectrometry for the chemical analysis of lead samples collected on filters from ambient air.
SANS 10248-3:2011	<i>Management of healthcare waste - Part 3: Management of healthcare risk waste from minor generators - Registered healthcare professionals and non-healthcare professionals.</i> Specifies provisions and requirements for the safe management of healthcare risk waste generated by registered healthcare professionals and non-healthcare professionals.
SANS 10400-XA:2011	<i>The application of the National Building Regulations - Part X: Environmental sustainability - Part XA: Energy usage in buildings.</i> Covers the deemed-to-satisfy requirements for compliance with Part XA (Energy Usage in Buildings) of the National Building Regulations.
SANS 11140-1:2011/ ISO 11140-1:2005	<i>Sterilization of health care products - Chemical indicators - Part 1: General requirements.</i> Specifies general requirements and test methods for indicators that show exposure to sterilization processes by means of physical or chemical (or both) change of substances, and that are used to monitor the attainment of one or more of the variables required for a sterilization process. They are not dependent for their action on the presence of a living organism.
SANS 12785-1:2011/ ISO/IEC 12785-1:2009	<i>Information technology - Learning, education, and training - Content packaging - Part 1: Information model.</i> Defines the data structure that can be used to exchange language, education and training (LET) content among systems that wish to import, export, aggregate and disaggregate packages of LET content.
SANS 14066:2012/ ISO 14066:2011	<i>Greenhouse gases - Competence requirements for greenhouse gas validation teams and verification teams.</i> Specifies competence requirements for greenhouse gas validation teams and verification teams.
SATR 14105:2011/ ISO/TR 14105:2011	<i>Document management - Change management for successful electronic document management system (EDMS) implementation.</i> Defines the cognitive, physical, organizational, and human factors as they apply to usability criteria for electronic document management systems (EDMS) development, selection and implementation.
SANS 15403-2:2011/ ISO/TR 15403-2:2006	<i>Natural gas - Natural gas for use as a compressed fuel for vehicles - Part 2: Specification of the quality.</i> Specifies the quality of compressed natural gas composition. Does not apply to natural gas delivered to a refuelling/filling station. Used to supplement ISO 15403-1 (published in South Africa as an identical adoption under the designation SANS 15403-1).
SATS 17575-1:2012/ ISO/TS 17575-1:2010	<i>Electronic fee collection - Application interface definition for autonomous systems - Part 1: Charging.</i> Defines the format and semantic of the data exchange between a Front End and corresponding Back Ends in autonomous toll regimes. The data defined are used to generate charge reports that contain information about the road usage of a vehicle for certain time intervals. The contents of these charge reports might vary between toll regimes. A toll regime comprises a set of rules for charging, including the charged network, the charging principles, the liable vehicles and a definition of the required contents of the charge report.
SANS 19005-2:2011/ ISO 19005-2:2011	<i>Document management - Electronic document file format for long-term preservation - Part 2: Use of ISO 32000-1 (PDF/A-2).</i> Specifies the use of the Portable Document Format (PDF) 1.7, as formalized in ISO 32000-1 (published in South Africa as an identical adoption under the designation SANS 32000-1), for preserving the static visual representation of page-based electronic documents over time. Does not apply to specific processes for converting paper or electronic documents to the PDF/A format, specific technical design, user interface, implementation, or operational details of rendering, specific physical methods of storing these documents, such as media and storage conditions, or required computer hardware and/or operating systems.
SANS 19250:2011/ ISO 19250:2010	<i>Water quality - Detection of Salmonella spp.</i> Specifies a method for the detection of <i>Salmonella</i> spp. (presumptive or confirmed) in water samples. It is possible that, for epidemiological purposes or during outbreak investigations, other media are also required.
SANS 22320:2011/ ISO 22320:2011	<i>Societal security - Emergency management - Requirements for incident response.</i> Specifies minimum requirements for effective incident response and provides the basics for command and control, operational information, coordination and cooperation within an incident response organization. Includes command and control organizational structures and procedures, decision support, traceability, information management, and interoperability.
SANS 22716:2011/ ISO 22716:2007	<i>Cosmetics - Good Manufacturing Practices (GMP) - Guidelines on Good Manufacturing Practices.</i> Gives guidelines for the production, control, storage, shipment and quality aspects of cosmetic products.
SANS 23409:2011/ ISO 23409:2011	<i>Male condoms - Requirements and test methods for condoms made from synthetic materials.</i> Specifies the minimum requirements and the test methods applicable to male condoms produced from synthetic materials or blends of synthetic materials and natural rubber latex that are used for contraceptive purposes and to aid in the prevention of sexually transmitted infections.
SATR 24475:2011/ ISO/TR 24475:2010	<i>Cosmetics - Good manufacturing practices - General training document.</i> Aims at contributing to the training of personnel in cosmetic production plants within the context of the introduction of good manufacturing practices.

SANS 24751-1:2011/ ISO/IEC 24751-1:2008	<i>Information technology - Individualized adaptability and accessibility in e-learning, education and training - Part 1: Framework and reference model.</i> Provides a common framework to describe and specify learner needs and preferences on the one hand and the corresponding description of the digital learning resources on the other hand.
SANS 24751-2:2012/ ISO/IEC 24751-2:2008	<i>Information technology - Individualized adaptability and accessibility in e-learning, education and training - Part 2: "Access for all" personal needs and preferences for digital delivery.</i> Provides a common information model for describing the learner or user needs and preferences when accessing digitally delivered services.
SANS 24751-3:2011/ ISO/IEC 24751-3:2008	<i>Information technology - Individualized adaptability and accessibility in e-learning, education and training - Part 3: "Access for all" digital resource description.</i> Is intended to meet the needs of learners with disabilities and anyone who is disabled by their context.
SANS 24978:2011/ ISO 24978:2009	<i>Intelligent transport systems - ITS safety and emergency messages using any available wireless media - Data registry procedures.</i> Provides a standardized set of protocols, parameters, and a method of management of an updateable "data registry" to provide application layers for "ITS safety messages" using any available wireless media.
SANS 25841:2011/ ISO 25841:2011	<i>Female condoms - Requirements and test methods.</i> Specifies the minimum requirements and test methods for female condoms, which are supplied to consumers for contraceptive purposes assisting in the prevention of sexually transmitted infections.
SANS 28927-8:2012/ ISO 28927-8:2009	<i>Hand-held portable power tools - Test methods for evaluation of vibration emission - Part 8: Saws, polishing and filing machines with reciprocating action and small saws with oscillating or rotating action.</i> Specifies a laboratory method for measuring hand-transmitted vibration emission at the handles of hand-held, power-driven saws, polishing and filing machines with reciprocating action and small saws with oscillating or rotating action. Applies to reciprocating files intended for surface finishing equipped with a file or polishing tool, saws intended for parting sheets, plaster for medical use or wood, or equipped with a saw blade for use on all kinds of materials, and small circular saws primarily intended for cutting metal or composite materials, whether driven pneumatically or by other means.
SANS 30000:2011/ ISO 30000:2009	<i>Ships and marine technology - Ship recycling management systems - Specifications for management systems for safe and environmentally sound ship recycling facilities.</i> Specifies requirements for a management system to enable a ship recycling facility to develop and implement procedures, policies and objectives in order to be able to undertake safe and environmentally sound ship recycling operations in accordance with national and international standards.
SANS 50001:2011/ ISO 50001:2011	<i>Energy management systems - Requirements with guidance for use.</i> Specifies requirements for establishing, implementing, maintaining and improving an energy management system, whose purpose is to enable an organization to follow a systematic approach in achieving continual improvement of energy performance, including energy efficiency, energy use and consumption. Specifies requirements applicable to energy use and consumption, including measurement, documentation and reporting, design and procurement practices for equipment, systems, processes and personnel that contribute to energy performance.
SANS 50010:2011	<i>Measurement and verification of energy savings.</i> Provides a methodology for the determination of energy savings that may be used in a range of voluntary or regulatory processes which may require the impact of interventions on energy use to be calculated.
SANS 50065-1:2012/ EN 50065-1:2011	<i>Signalling on low-voltage electrical installations in the frequency range 3 kHz to 148,5 kHz - Part 1: General requirements, frequency bands and electromagnetic disturbances.</i> Applies to electrical equipment using signals in the frequency range 3 kHz to 148,5 kHz to transmit information on low-voltage electrical systems, either on the public supply system or within installations in consumers' premises. Specifies the frequency bands allocated to the different applications, limits for the terminal output voltage in the operating band, and limits for conducted and radiated disturbance.
SANS 50436-1:2012/ EN 50436-1:2005	<i>Alcohol interlocks - Test methods and performance requirements - Part 1: Instruments for drink-driving-offender programs.</i> Specifies test methods and performance requirements for breath alcohol controlled alcohol interlocks.
SANS 50436-2:2012/ EN 50436-2:2007	<i>Alcohol interlocks - Test methods and performance requirements - Part 2: Instruments having a mouthpiece and measuring breath alcohol for general preventive use.</i> Specifies test methods and performance requirements for breath alcohol controlled alcohol interlocks with a mouthpiece.
SANS 50451-1:2011/ EN 451-1:2003	<i>Method of testing fly ash - Part 1: Determination of free calcium oxide content.</i> Describes the reference procedure for the determination of free calcium oxide content in fly ash.
SANS 50451-2:2011/ EN 451-2:1994	<i>Method of testing fly ash - Part 2: Determination of fineness by wet sieving.</i> Describes the determination of fly ash fineness by wet sieving on a 0,045 mm sieve (ISO 565).
SANS 53610:2011/ EN 13610:2002	<i>Chemical disinfectants - Quantitative suspension test for the evaluation of virucidal activity against bacteriophages of chemical disinfectants used in food and industrial areas - Test method and requirements (phase 2, step 1).</i> Specifies a test method and requirements for the minimum virucidal activity against bacteriophages of chemical disinfectants that are used in food and industrial areas, excluding areas and situations where disinfection is medically indicated (for example in hospitals), and excluding products used on living tissues (for example skin).
SANS 53624:2011/ EN 13624:2003	<i>Chemical disinfectants and antiseptics - Quantitative suspension test for the evaluation of fungicidal activity of chemical disinfectants for instruments used in the medical area - Test method and requirements (phase 2, step 1).</i> Specifies a test method and the minimum requirements for fungicidal or yeasticidal activity of chemical disinfectants and applies to products that are used in the medical area for disinfecting instruments.

SANS 53697:2011/ EN 13697:2001	<i>Chemical disinfectants and antiseptics - Quantitative non-porous surface test for the evaluation of bactericidal and/or fungicidal activity of chemical disinfectants used in food, industrial, domestic and institutional areas - Test method and requirements without mechanical action (phase 2/step 2).</i> Specifies a test method and the minimum requirements for bactericidal and/or fungicidal activity of chemical disinfectants that are used in food, industrial, domestic and institutional areas.
SANS 53727:2011/ EN 13727:2003	<i>Chemical disinfectants and antiseptics - Quantitative suspension test for the evaluation of bactericidal activity of chemical disinfectants for instruments used in the medical area - Test method and requirements (phase 2, step 1).</i> Specifies a test method and the minimum requirements for bactericidal activity of chemical disinfectant products and applies to products that are used in the medical area for disinfecting instruments.
SANS 54348:2011/ EN 14348:2005	<i>Chemical disinfectants and antiseptics - Quantitative suspension test for the evaluation of mycobactericidal activity of chemical disinfectants in the medical area including instrument disinfectants - Test methods and requirements (phase 2, step 1).</i> Specifies a test method and the minimum requirements for mycobactericidal (or tuberculocidal) activity of chemical disinfectants and applies to products that are used in the medical area.
SANS 54476:2011/ EN 14476:2005	<i>Chemical disinfectants and antiseptics - Virucidal quantitative suspension test for chemical disinfectants and antiseptics used in human medicine - Test method and requirements (phase 2, step 1).</i> Specifies a test method and the minimum requirements for virucidal activity of chemical disinfectants for instruments, surfaces or hands and is applicable to areas and situations where disinfection is medically indicated.
SANS 54561:2011/ EN 14561:2006	<i>Chemical disinfectants and antiseptics - Quantitative carrier test for the evaluation of bactericidal activity for instruments used in the medical area - Test method and requirements (phase 2, step 2).</i> Specifies a test method and the minimum requirements for bactericidal activity of chemical disinfectants and applies to products that are used in the medical area for disinfecting instruments.
SANS 54562:2011/ EN 14562:2006	<i>Chemical disinfectants and antiseptics - Quantitative carrier test for the evaluation of fungicidal or yeasticidal activity for instruments used in the medical area - Test method and requirements (phase 2, step 2).</i> Specifies a test method and the minimum requirements for fungicidal or yeasticidal activity of chemical disinfectants and applies to products that are used in the medical area for disinfecting instruments.
SANS 54563:2011/ EN 14563:2008	<i>Chemical disinfectants and antiseptics - Quantitative carrier test for the evaluation of mycobactericidal or tuberculocidal activity of chemical disinfectants used for instruments in the medical area - Test method and requirements (phase 2, step 2).</i> Specifies a test method and the minimum requirements for mycobactericidal or tuberculocidal activity of chemical disinfectants and applies to products that are used in the medical area for disinfecting instruments.
SANS 54885:2011/ EN 14885:2006	<i>Chemical disinfectants and antiseptics - Application of European Standards for chemical disinfectants and antiseptics.</i> Specifies the standards to which disinfectant products have to conform in order to support the claims for microbicidal activity which are referred to in this standard. Applies to products to be used in the medical area, the veterinary area and in food, industrial, domestic and institutional areas.
SANS 60079-29-1:2012/ IEC 60079-29-1:2007	<i>Explosive atmospheres - Part 29-1: Gas detectors - Performance requirements of detectors for flammable gases.</i> Specifies general requirements for construction, testing and performance, and describes the test methods that apply to portable, transportable and fixed apparatus for the detection and measurement of flammable gas or vapour concentrations with air. The apparatus, or parts thereof, are intended for use in potentially explosive atmospheres and in mines susceptible to firedamp.
SANS 60079-29-2:2012/ IEC 60079-29-2:2007	<i>Explosive atmospheres - Part 29-2: Gas detectors - Selection, installation, use and maintenance of detectors for flammable gases and oxygen.</i> Gives guidance on the selection, installation, safe use and maintenance of electrically operated group II apparatus intended for use in industrial and commercial safety applications for the detection and measurement of flammable gases complying with the requirements of IEC 60079-29-1 (published in South Africa as an identical adoption under the designation SANS 60079-29-1)
SANS 60099-8:2011/ IEC 60099-8:2011	<i>Surge arresters Part 8: Metal-oxide surge arresters with external series gap (EGLA) for overhead transmission and distribution lines of a.c. systems above 1 kV.</i> Covers metal-oxide surge arresters with external series gap (externally gapped line arresters (EGLA)) that are applied on overhead transmission and distribution lines, only to protect insulator assemblies from lightning-caused flashovers.
SANS 61400-22:2011/ IEC 61400-22:2010	<i>Wind turbines - Part 22: Conformity testing and certification.</i> Provides a common basis for certification of wind turbines and wind turbine projects, including a basis for acceptance of operating bodies (i.e. certification bodies, inspection bodies and testing laboratories) and mutual recognition of certificates.
SANS 61400-23:2011/ IEC/TS 61400-23:2001	<i>Wind turbine generator systems - Part 23: Full-scale structural testing of rotor blades.</i> Provides guidelines for the full-scale structural testing of wind turbine blades and for the interpretation or evaluation of results, as a possible part of a design verification of the integrity of the blade.
SANS 61400-24:2011/ IEC 61400-24:2010	<i>Wind turbines - Part 24: Lightning protection.</i> Defines the lightning environment for wind turbines and application of the environment for risk assessment for the wind turbine. Also defines requirements for protection of blades, other structural components and electrical and control systems against both direct and indirect effects of lightning. Test methods to validate compliance are recommended.
SANS 61400-25-4:2011/ IEC 61400-25-4:2008	<i>Wind turbines - Part 25-4: Communications for monitoring and control of wind power plants - Mapping to communication profile.</i> Specifies the specific mappings to protocol stacks encoding the messages required for the information exchange between a client and a remote server. Also provides an abstract definition of classes and services such that the specifications are independent of specific protocol stacks, implementations, and operating systems. Specifies the mapping of these abstract classes and services to protocol stacks.

SANS 61643-11:2011/ IEC 61643-11:2011	<i>Low-voltage surge protective devices - Part 11: Surge protective devices connected to low-voltage power systems - Requirements and test methods.</i> Is applicable to devices for surge protection against indirect and direct effects of lightning or other transient overvoltages. Devices are packaged to be connected to 50/60 Hz a.c. power circuits, and equipment rated up to 1 000 V r.m.s.
SANS 62271-206:2011/ IEC 62271-206:2011	<i>High-voltage switchgear and controlgear - Part 206: Voltage presence indicating systems for rated voltages above 1 kV and up to and including 52 kV.</i> Applies to voltage presence indicating systems (VPIS) incorporated in a.c. switchgear and controlgear covered by IEC 62271-200 or IEC 62271-201 (published in South Africa as identical adoptions under the designations SANS 62271-200 and SANS 62271-201, respectively).

## 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 16:2007/ ISO/IEC 10116:2006	<i>Information technology - Security techniques - Modes of operation for an n-bit block cipher. ISO/IEC technical corrigendum No. 1.</i> Corrected to delete text in the subclause on preliminaries in the clause on cipher feedback (CFB) mode, and to add text to the subclause on properties of the cipher feedback (CFB) mode of operation in the annex on properties of the modes of operation.
SANS 49:2011 (Ed. 3.2)	<i>Edible gelatin. Consolidated edition incorporating amendment No. 2.</i> Amended to update a referenced standard.
SANS 183:2011 (Ed. 2.2)	<i>The production of sorghum beer. Consolidated edition incorporating amendment No. 2.</i> Amended to update a referenced standard and to move references to legislation to the foreword.
SANS 191:2011 (Ed. 2.2)	<i>Cast steel gate valves. Consolidated edition incorporating amendment No. 2.</i> Amended to update referenced standards.
SANS 207:2011 (Ed. 1.1)	<i>The design and construction of reinforced soils and fills. Consolidated edition incorporating amendment No. 1.</i> Amended to update referenced standards and to change the requirements for data presentation and reporting.
SANS 282:2011/ (SANS 282:2004)	<i>Bending dimensions and scheduling of steel reinforcement for concrete.</i> Specifies the bending dimensions (including the methods of measurement) and the scheduling of steel bars for use in the reinforcement of concrete.
SANS 291:2011/ ISO 291:2008 (SANS 291:2003)	<i>Plastics - Standard atmospheres for conditioning and testing.</i> Sets out specifications relating to the conditioning and testing of all plastics and all types of test specimen at constant atmospheric conditions.
SANS 434:2011/ (SANS 434:2008)	<i>General protective clothing.</i> Specifies requirements for the material, cut, make and trim of boiler suits, two piece workwear suits, bib and brace overall and coats and jackets (unlined). Does not cover garments designed for the protection against specific hazards.
SANS 441:2012 (Ed. 1.1)	<i>Timber preservative - Mixture of azoles and permethrin. Consolidated edition incorporating amendment No. 1.</i> Amended to move reference to national legislation to the foreword, to update referenced standards, to add annex C covering optional test methods, and to modify the procedure for the methods of test.
SANS 449:2011 (Ed. 4.2)	<i>The manufacture of soft drinks and soft drink concentrates. Consolidated edition incorporating amendment No. 2.</i> Amended to update a referenced standard.
SANS 458:2011 (Ed. 1.2)	<i>Tolerances permitted for the accuracy of measurements of products (including prepackaged products) in terms of legal metrology legislation. Consolidated edition incorporating amendment No. 2.</i> Amended to move reference to legislation to the foreword, to update the requirements for accuracy of measurement and to update the test procedure in annex D.
SANS 460:2011 (Ed. 4.2)	<i>Plain-ended solid drawn copper tubes for potable water. Consolidated edition incorporating amendment No. 2.</i> Amended to update referenced standards, to delete the clauses on bending, and to delete a note in the clause on chemical analysis.
SANS 497:2011 (Ed. 4.3)	<i>Glazed ceramic sanitaryware. Consolidated edition incorporating amendment No. 3.</i> Amended to state in the foreword that the document is referenced in legislation and to update referenced standards.
SANS 506:2011 (Ed. 1.1)	<i>Timber preservative - Alkaline-copper-quaternary type. Consolidated edition incorporating amendment No. 1.</i> Amended to update normative references, to update the requirements for composition, to update the requirements for solutions in ethanolamine, to change the term "weight" to "mass" in the clause on solutions in ammonia, to add a test method for the determination of quaternary in BAC (for type C) or DDAC (for type D), and to update a cross-reference.
SANS 534-1:2011/ VESA ABS/002:2011 (SANS 534-1:2008)	<i>Vehicle security - Whole-of-vehicle marking - Part 1: Microdot systems.</i> Describes the characteristics and methods of application of unique identification carriers, called microdots, to vehicles and also the processes required to ensure the integrity, authenticity and confidentiality of the entire microdot production, supply, storage, and application systems.
SANS 576:2011/ ISO 1825:2010 (SANS 576:2008)	<i>Rubber hoses and hose assemblies for aircraft ground fuelling and defuelling - Specification.</i> Specifies the dimensions of, and requirements for, four types of hose and hose assembly for use in all operations associated with the ground fuelling and defuelling of aircraft.
SANS 585:2011 (Ed. 3.1)	<i>The production of frozen fish, marine molluscs, and products derived therefrom. Consolidated edition incorporating amendment No. 1.</i> Amended to move reference to a national department to the foreword, and to update a referenced standard.



Standard No. and year	Title, scope and purport
SANS 587:2011 (Ed. 2.1)	<i>Canned fish, canned marine molluscs and canned crustaceans, and products derived therefrom. Consolidated edition incorporating amendment No. 1.</i> Amended to update a referenced standard and to move references to legislation to the foreword.
SANS 613:2011 (Ed. 1.2)	<i>Fenestration products - Mechanical performance criteria. Consolidated edition incorporating amendment No. 2.</i> Amended to update the table on test performance criteria, to update the table on operating forces, and to change the sequence of testing and renumber accordingly.
SANS 616:2012 (Ed. 1.2)	<i>Wood-preserving creosote mixtures and coal-tar mixtures. Consolidated edition incorporating amendment No. 2.</i> Amended to modify the table on other requirements.
SANS 664-2:2011 (Ed. 1.1)	<i>Wedge gate and resilient seal valves for waterworks - Part 2: Wedge gate valves. Consolidated edition incorporating amendment No. 1.</i> Amended to improve clauses and to update numbering.
SANS 665-1:2012 (Ed. 1.2)	<i>Wedge gate and resilient seal valves for general purposes - Part 1: General. Consolidated edition incorporating amendment No. 2.</i> Amended to update the normative references and tables.
SANS 665-2:2011 (Ed. 1.1)	<i>Wedge gate and resilient seal valves for general purposes - Part 2: Wedge gate valves. Consolidated edition incorporating amendment No. 1.</i> Amended to clarify the requirements for guides and valves.
SANS 674:2011 (Ed. 1.2)	<i>Steel-reinforced spirally wound PE drainage and sewer pipes. Consolidated edition incorporating amendment No. 2.</i> Amended to add a dimension in the table on pipe dimension, to add a table on thick wall thickness and to renumber the tables accordingly, to add a dimension in the table on physical and mechanical properties of pipes, to delete requirements for the table on requirements for piping system suitability test, to change the title of the figure on pipe jointing by means of PE belt electrofusion from inside, to add a figure on pipe jointing by means of PE belt electrofusion from outside and to add a reference to that figure, to update requirements for pipe jointing by means of electrofusion PE belt, and to change the scope and to delete the clauses for test condition in the annex on sealing characteristics test method for jointing by means of elastic rubber sleeve.
SANS 675:2011 (Ed. 4.1)	<i>Zinc-coated fencing wire. Consolidated edition incorporating amendment No. 1.</i> Amended to update a referenced standard.
SANS 719:2011 (Ed. 3.2)	<i>Electric welded low carbon steel pipes for aqueous fluids (large bore). Consolidated edition incorporating amendment No. 2.</i> Amended to update referenced standards, and to update the requirements in the table on chemical composition and physical properties of steels.
SANS 788:2011 (Ed. 1.1)	<i>Frozen shrimps (prawns), langoustines and crabs. Consolidated edition incorporating amendment No. 1.</i> Amended to update a referenced standard.
SANS 809:2011 (Ed. 6.2)	<i>Industrial body belts. Consolidated edition incorporating amendment No. 2.</i> Amended to update referenced standards.
SANS 815-2:2011 (Ed. 1.1)	<i>Shoulder-ended and groove-ended pipe systems - Part 2: Groove-ended steel pipes, fittings and couplings. Consolidated edition incorporating amendment No. 1.</i> Amended to update referenced standards.
SANS 885:2011 (SANS 885:2003)	<i>Processed meat products.</i> Specifies the requirements for the handling, preparation, processing, packaging, refrigeration, freezing, chilling and storage of processed meat products, and includes microbiological and compositional requirements for these products.
SANS 954:2011 (Ed. 1.2)	<i>Metal-arc welding equipment (non-automatic, single-operator, transformer type). Consolidated edition incorporating amendment No. 2.</i> Amended to move reference to legislation and a national department to the foreword, to update referenced standards, to delete footnote 1 and the note on promulgated limits, and to clarify the formula for power factor.
SANS 1027:2011 (Ed. 1.2)	<i>Woodworkers' vices. Consolidated edition incorporating amendment No. 2.</i> Amended to update a referenced standard.
SANS 1034:2012 (Ed. 1.2)	<i>Grey iron castings. Consolidated edition incorporating amendment No. 2.</i> Amended to update a referenced standard.
SANS 1036:2012/ ISO 36:2005 (SANS 1036:2004)	<i>Rubber, vulcanized or thermoplastic - Determination of adhesion to textile fabrics.</i> Specifies a method of test for measuring the force required to separate, by stripping, two plies of fabric bonded with rubber, or a rubber layer and a fabric ply bonded together.
SANS 1037:2011 (Ed. 1.4)	<i>Standard transformer bushings. Consolidated edition incorporating amendment No. 4.</i> Amended to introduce electrical current carrying connections, and to update referenced standards.
SANS 1058:2012 (Ed. 2.1)	<i>Concrete paving blocks. Consolidated edition incorporating amendment No. 1.</i> Amended to update referenced standards and to change the requirements in table 2.
SANS 1060:2012 (SANS 1060:2003)	<i>Wheelchairs (folding type).</i> Covers five sizes of folding wheelchairs intended for use by paraplegics, quadriplegics and other incapacitated persons.
SANS 1109-1:2005/ ISO 7-1:1994	<i>Pipe threads where pressure-tight joints are made on the threads - Part 1: Dimensions, tolerances and designation. ISO technical corrigendum No. 1.</i> Corrected to replace figure 5.
SANS 1123:2011 (Ed. 3.2)	<i>Pipe flanges. Consolidated edition incorporating amendment No. 2.</i> Amended to update referenced standards.
SANS 1126:2011 (SANS 1126:2007)	<i>Vehicle jacks.</i> Specifies requirements for the design, construction, performance and labelling of vehicle jacks designed to raise vehicles. Does not include devices that raise entire vehicles which include hydraulic trolley jacks.



Standard No. and year	Title, scope and purport
SANS 1159:2011 (Ed. 2.1)	<i>The production of pre-cooked frozen foods containing protein. Consolidated edition incorporating amendment No. 1.</i> Amended to move reference to South African legislation in the text to the foreword and to update a referenced standard.
SANS 1186-1:2011 (Ed. 3.6)	<i>Symbolic safety signs - Part 1: Standard signs and general requirements. Consolidated edition incorporating amendment No. 6.</i> Amended to state that this document is referenced in legislation, and to make the information in annex C normative.
SANS 1192:2011 (Ed. 1.4)	<i>Laminated safety glass for vehicles. Consolidated edition incorporating amendment No. 4.</i> Amended to state in the foreword that the document is referenced in legislation, and to change the requirements for luminous transmittance.
SANS 1199:2011 (Ed. 2.3)	<i>The production of mageu. Consolidated edition incorporating amendment No. 3.</i> Amended to update a referenced standard and to move reference to legislation to the foreword.
SANS 1217:2011 (SANS 1217:2001)	<i>Internal and external organic coating protection for buried steel pipelines.</i> Specifies requirements for the application, selection and inspection of protective organic coatings to the inside or the outside (or both) of steel pipes.
SANS 1313-1:2012 (SABS 1313-1:2002)	<i>Conveyor belt idlers - Part 1: Troughed belt conveyor idlers (metallic and non-metallic) for idler roller rotational speeds of up to 750 revolutions per minute.</i> Specifies the characteristics of conveyor belt idlers that have metallic or non-metallic rolls for belt widths of up to 2 400 mm and for rotational speeds of up to 750 revolutions per minute.
SANS 1313-2:2012 (SABS 1313-2:1998)	<i>Conveyor belt idlers - Part 2: Link suspended idlers and fixed-form suspended idlers (metallic and non-metallic) for idler rotational speeds of up to 750 revolutions per minute.</i> Specifies requirements for link suspended conveyor belt idlers and fixed-form suspended idlers not included in SANS 1313-1.
SANS 1385:2011 (Ed. 1.3)	<i>Kitchen cupboards: Built-in and free-standing. Consolidated edition incorporating amendment No. 3.</i> Amended to update referenced standards.
SANS 1411-2:2011 (Ed. 2.3)	<i>Materials of insulated electric cables and flexible cords - Part 2: Polyvinyl chloride (PVC). Consolidated edition incorporating amendment No. 3.</i> Amended to change the ageing period and the duration of the test for loss of mass on heating for the type D4 insulation, and to change the maximum variation in the test for resistance to oil for type D6 insulation.
SANS 1411-4:2011 (Ed. 2.3)	<i>Materials of insulated electric cables and flexible cords - Part 4: Cross-linked polyethylene (XLPE). Consolidated edition incorporating amendment No. 3.</i> Amended to include a referenced standard and to change compatibility ageing variations allowed for a type B material.
SANS 1411-5:2011 (Ed. 3.2)	<i>Materials of insulated electric cables and flexible cords - Part 5: Halogen-free, flame-retardant materials). Consolidated edition incorporating amendment No. 2.</i> Amended to include requirements for HFD3, HFD4 and HFD5 materials, to include requirements for cross-linking and hot immersion, and to change requirements for compatibility.
SANS 1420:2012 (Ed. 1.2)	<i>Bed bases (spring upholstered). Consolidated edition incorporating amendment No. 2.</i> Amended to update the requirements for polyurethane foam, and to update referenced standards.
SANS 1423-3:2011 (Ed. 2.1)	<i>Performance requirements for textile fabrics of low flammability - Part 1: Upholstery fabrics. Consolidated edition incorporating amendment No. 1.</i> Amended to update a referenced standard.
SANS 1464-22:2011 (Ed. 1.4)	<i>Safety of luminaires - Part 22: Luminaires for emergency lighting. Consolidated edition incorporating amendment No. 4.</i> Amended to state that this document is referenced in legislation, to update referenced standards, to delete the ambient temperature requirement for batteries, to modify the requirements for the rated supply voltage in changeover operations, to change the ambient temperature for self-contained emergency luminaires in emergency mode, and to change the minimum rated voltage to nominal rated supply voltage for self-contained luminaires.
SANS 1553-2:2011 (Ed. 1.2)	<i>PVC-U window and door frames for external use - Part 2: Windows with frames made from PVC-U profiles. Consolidated edition incorporating amendment No. 2.</i> Amended to update referenced standards, and to delete a footnote concerning the window-test chamber.
SANS 1567:2011 (Ed. 2.1)	<i>Portable rechargeable fire extinguishers - CO<sub>2</sub> type extinguishers. Consolidated edition incorporating amendment No. 1.</i> Amended to move reference to legislation to the foreword, and to update referenced standards.
SANS 1620:2011 (Ed. 2.1)	<i>Barbed tape security barriers. Consolidated edition incorporating amendment No. 1.</i> Amended to update a referenced standard.
SANS 1649:2011 (SABS 1649:1995)	<i>Non-automatic self-indicating, semi-self-indicating and non-self-indicating weighing instruments with denominated verification scale intervals.</i> Specifies the metrological and technical requirements for non-automatic self-indicating, semi-self-indicating and non-self-indicating weighing instruments with denominated verification scale intervals that are subject to official metrological control in terms of the relevant national legislation. Provides standardized requirements and testing procedures to evaluate the metrological and technical characteristics in a uniform and traceable way. Does not apply to instruments that do not have denominated scale intervals, or non-graduated instruments from which the result of measurement cannot be read, such as mechanical counter scales, beam scales or balances.
SANS 1657:2011 (Ed. 2.2)	<i>Bottled water of subterranean origin. Consolidated edition incorporating amendment No. 2.</i> Amended to state that this document is referenced in legislation, to move reference to national departments to the foreword, and to update referenced standards.
SANS 1749:2011 (Ed. 1.2)	<i>Glass-reinforced polyester (GRP) poles. Consolidated edition incorporating amendment No. 2.</i> Amended to update referenced standards and to delete a note.
SANS 1798:2011 (Ed. 2.1)	<i>Bottled tomato sauce. Consolidated edition incorporating amendment No. 1.</i> Amended to update a referenced standard.

Standard No. and year	Title, scope and purport
SANS 1808-15:2011 (Ed. 1.2)	<i>Water supply and distribution system components - Part 15: Mechanical backflow-prevention devices. Consolidated edition incorporating amendment No. 2.</i> Amended to update referenced standards.
SANS 1844:2011 (Ed. 1.3)	<i>The testing of polypropylene woven fabrics for use in flexible intermediate bulk containers (FIBCs) for non-dangerous goods. Consolidated edition incorporating amendment No. 3.</i> Amended to delete reference to SANS 6191, to insert a definition for "acceptable" and to renumber the remaining definitions accordingly, and to change the test requirements for adhesion properties of coated fabric.
SANS 1848:2011 (Ed. 1.5)	<i>Geyser drip trays. Consolidated edition incorporating amendment No. 5.</i> Amended to change the material requirements of geyser drip trays.
SANS 1878-1:2011 (Ed. 1.1)	<i>South African spatial metadata standard - Part 1: Core metadata profile. Consolidated edition incorporating amendment No. 1.</i> Amended to indicate, in the foreword, that this standard does not replace SANS 19115.
SANS 1879:2011 (Ed. 1.2)	<i>Precast concrete suspended slabs. Consolidated edition incorporating amendment No. 2.</i> Amended to update referenced standards and to change the requirements for the resistance to serviceability limit state loads of beams and hollow core slabs.
SANS 1885:2011/ NRS 003:2011 (Ed. 2.1)	<i>AC metal-enclosed switchgear and controlgear for rated voltages above 1 kV and up to and including 36 kV. Consolidated edition incorporating amendment No. 1.</i> Amended to update referenced standards.
SANS 1929:2011 (SANS 1929:2005)	<i>Ambient air quality - Limits for common pollutants.</i> Gives limit values for common air pollutants to ensure that the negative effects of such pollutants on human health are prevented or reduced. Limit values given in this standard are expressed for common pollutants as are permissible frequencies by which limit values may be exceeded.
SANS 1935:2011 (SANS 1935:2004)	<i>Automotive biodiesel - Fatty Acid Methyl Esters (FAME) for diesel engines - Requirements and test methods.</i> Specifies requirements and test methods for marketed and delivered biodiesel to be used either as automotive fuel for diesel engines at 100 % concentration, or as an extender for automotive fuel for diesel engines in accordance with the requirements of SANS 342.
SANS 2001-CS1:2012 (Ed. 1.1)	<i>Construction works - Part CS1: Structural steelwork. Consolidated edition incorporating amendment No. 1.</i> Amended to update referenced standards and to include the definition of "acceptable".
SANS 2001-CT1:2011 (Ed. 1.1)	<i>Construction works - Part CT1: Structural timberwork (flooring). Consolidated edition incorporating amendment No. 1.</i> Amended to update referenced standards, and to modify the requirements for strip flooring.
SANS 2001-CT2:2011 (Ed. 1.2)	<i>Construction works - Part CT2: Structural timberwork (roofing). Consolidated edition incorporating amendment No. 2.</i> Amended to update referenced standards.
SANS 2631-4:2012/ ISO 2631-4:2001	<i>Mechanical vibration and shock - Evaluation of human exposure to whole-body vibration - Part 4: Guidelines for the evaluation of the effects of vibration and rotational motion on passenger and crew comfort in fixed-guideway transport systems. ISO amendment No. 1.</i> Amended to update a referenced standard, and to add an annex on statistical analysis method.
SANS 2781:2012/ ISO 2781:2008 (SANS 2781:2003)	<i>Rubber, vulcanized or thermoplastic - Determination of density.</i> Specifies two methods of the determination of the density of solid vulcanized and thermoplastic rubbers.
SANS 2781:2012/ ISO 2781:2008 (SANS 2781:2003)	<i>Rubber, vulcanized or thermoplastic - Determination of density. ISO amendment No. 1.</i> Amended to add a clause on precision, and to add an annex on precision data.
SANS 3743-1:2012/ ISO 3743-1:2010 (SANS 3743-1:1994)	<i>Acoustics - Determination of sound power levels and sound energy levels of noise sources using sound pressure - Engineering methods for small, movable sources in reverberant fields - Part 1: Comparison method for a hard-walled test room.</i> Specifies the various methods for determining the sound power levels and sound energy levels of noise sources; this includes the machinery, equipment and their components.
SANS 3744:2012/ ISO 3744:2010 (SANS 3744:1994)	<i>Acoustics — Determination of sound power levels and sound energy levels of noise sources using sound pressure - Engineering methods for an essentially free field over a reflecting plane.</i> Specifies methods for determining the sound power level or sound energy level of a noise source from sound pressure levels measured on a surface enveloping the noise source (machinery or equipment) in an environment that approximates to an acoustic free field near one or more reflecting planes in frequency bands or with A-weighting applied for calculations.
SANS 3746:2012/ ISO 3746:2010 (SANS 3746:1995)	<i>Acoustics — Determination of sound power levels and sound energy levels of noise sources using sound pressure - Survey method using an enveloping measurement surface over a reflecting plane.</i> Specifies methods for determining the sound power level or sound energy level of a noise source from sound pressure levels measured on a surface enveloping a noise source (machinery or equipment) in a test environment.
SANS 4649:2011 ISO 4649:2010 (SANS 4649:2003)	<i>Rubber, vulcanized or thermoplastic - Determination of abrasion resistance using a rotating cylindrical drum device.</i> Specifies two methods for the determination of the resistance of rubber to abrasion by means of a rotating cylindrical drum device.
SANS 4662:2011 ISO 4662:2009 (SANS 4662:2003)	<i>Rubber, vulcanized or thermoplastic - Determination of rebound resilience.</i> Specifies two methods for determining the rebound resilience of rubber the hardness of which lies between 30 IRHD and 85 IRHD. They are the pendulum method and the tripsometer method.
SANS 4662:2011 ISO 4662:2009 (SANS 4662:2003)	<i>Rubber, vulcanized or thermoplastic - Determination of rebound resilience. ISO technical corrigendum No. 1.</i> Corrected to change a requirement for apparatus.

Standard No. and year	Title, scope and purport
SANS 4866:2011/ ISO 4866:2010 (SANS 4866:1990)	<i>Mechanical vibration and shock - Vibration of fixed structures - Guidelines for the measurement of vibrations and evaluation of their effects on structures.</i> Establishes the basic principles for carrying out vibration measurement and processing data with regard to evaluating vibration effects on structures. Does not cover the source of excitation except when the source dictates dynamic range, frequency or other relevant parameters.
SANS 5823:2012 (SABS SM 823:1978)	<i>Pesticides: Biological evaluation of the efficacy of insecticides used on compost for house-fly control.</i> Specifies a method for the biological evaluation of the efficacy of insecticides used on compost for house-fly control.
SANS 5957:2012 (SABS SM 957:1978)	<i>Pesticides - Organoleptic evaluation of the taste of pesticide-treated grain.</i> Developed to determine repugnant odours and tastes caused by grain protectants at permissible residue tolerances, before grain protectants can be registered under the relevant national legislation.
SANS 5967:2011 (Ed 2.2)	<i>Retention of preservative in timber (volume method). Consolidated edition incorporating amendment No. 2.</i> Amended to update referenced standards, to add a requirement for the measuring tank method, to include the flow meter method, to update requirements for the test report, and to change the numbering and cross-referencing accordingly.
SANS 6136:2011 (SANS 6136:2003)	<i>Pesticides - Biological evaluation of materials that release an insecticide upon heating.</i> Describes the method for conducting biological efficacy tests on materials that release insecticides on heating.
SANS 7810:2004/ ISO/IEC 7810:2003	<i>Identification cards - Physical characteristics. ISO/IEC amendment No. 1.</i> Amended to update normative references and to add a clause for criteria for cards containing integrated circuits.
SANS 7811-6:2009/ ISO/IEC 7811-6:2008	<i>Identification cards - Recording technique - Part 6: Magnetic stripe - High coercivity. ISO/IEC technical corrigendum No. 1.</i> Corrected to replace the figure on noise in signal waveform
SANS 8253-1:2011/ ISO 8253-1:2010 (SANS 8253-1:1989)	<i>Acoustics - Audiometric test methods - Part 1: Pure-tone air and bone conduction audiometry.</i> Specifies procedures and requirements for pure-tone air conduction and bone conduction threshold audiometry. Does not cover audiometric procedures to be carried out at levels above the hearing threshold levels of the subjects.
SANS 8253-2:2011/ ISO 8253-2:2009 (SANS 8253-2:1992)	<i>Acoustics - Audiometric test methods - Part 2: Sound field audiometry with pure-tone and narrow-band test signals.</i> Specifies relevant test signal characteristics, requirements for free, diffuse, and quasi-free sound fields, and procedures for sound field audiometry using pure tones, frequency-modulated tones or other narrow-band test signals presented by means of one or more loudspeakers. Does not include specifications for the use of hand-held loudspeakers.
SANS 8773:2007/ ISO 8773:2006	<i>Plastics piping systems for non-pressure underground drainage and sewerage - Polypropylene (PP). National amendment No. 1.</i> Amended to accommodate changes regarding fabrication systems, dimensions and requirements for welding used in South Africa.
SANS 9796-2:2011/ ISO/IEC 9796-2:2010 (SANS 9796-2:2007)	<i>Information technology - Security techniques - Digital signature schemes giving message recovery - Part 2: Integer factorization based mechanisms.</i> Specifies three digital signature schemes giving message recovery, two of which are deterministic (non-randomized) and one of which is randomized. The security of all three schemes is based on the difficulty of factorizing large numbers. All three schemes can provide either total or partial message recovery. Also specifies the method for key production for the three signature schemes.
SANS 9798-3:2003/ ISO/IEC 9798-3:1998	<i>Information technology - Security techniques - Entity authentication - Part 3: Mechanisms using digital signature techniques. ISO/IEC amendment No. 1.</i> Amended to add definitions and notations, a new clause on mechanisms involving an on-line trusted third party and a normative annex which defines object identifiers and ASN.1 syntax.
SANS 9798-4:2003/ ISO/IEC 9798-4:1999	<i>Information technology - Security techniques - Entity authentication - Part 4: Mechanisms using a cryptographic check function. ISO/IEC amendment No. 1.</i> Corrected to insert an additional explanation on the use of $X \parallel Y$ and to add a bibliography.
SANS 10005:2011 (Ed. 7.2)	<i>The preservative treatment of timber. Consolidated edition incorporating amendment No. 2.</i> Amended to include references to a regulation and a compulsory specification in the foreword, to update referenced standards, to delete all references to the preservative Tributyltin Oxide Lindane (TBTOL), and to include the preservative Azole-premetherin (ZP) in the table on the requirements for preservative-treated timber.
SANS 10019:2011 (SANS 10019:2008)	<i>Transportable pressure receptacles for compressed, dissolved and liquefied gases - Basic design, manufacture, use and maintenance.</i> Covers the minimum requirements for the design, manufacture, use and maintenance of refillable and non refillable gas pressure receptacles of water capacity 0,5 L to 3 000 L and cartridges of > 0,5 L, and may include requirements over and above those contained within the cylinder design and manufacturing standards. Also covers cylinders for self-contained underwater breathing apparatus for recreational diving, self-contained surface breathing apparatus (SCBA), fire-fighting extinguishers and fixed fire-fighting extinguishing systems. Does not cover special gas pressure receptacles used in aircraft or air-brake reservoirs and scuba cylinders for professional use.
SANS 10034-1:2011 ISO 34-1:2010 (SANS 10034-1:2009)	<i>Rubber, vulcanized or thermoplastic - Determination of tear strength - Part 1: Trouser, angle and crescent test pieces.</i> Specifies three test methods for the determination of the tear strength of vulcanized or thermoplastic rubber, namely: (method A) using a trouser test piece, (method B) using an angle test piece, and (method C) using a crescent test piece with a nick.
SANS 10049:2012 (Ed. 4.1)	<i>Food safety management - Requirements for prerequisite programmes (PRPs). Consolidated edition incorporating amendment No. 1.</i> Amended to update a referenced standard.
SANS 10066:2011 (Ed. 3.1)	<i>Application of thermal process control to low-acid fish canning factories. Consolidated edition incorporating amendment No. 1.</i> Amended to update a referenced standard.
SANS 10070:2011 (Ed. 3.3)	<i>The installation of resilient thermoplastic and similar flexible floor covering materials. Consolidated edition incorporating amendment No. 3.</i> Amended to update referenced standards, and to correct a cross-reference.

Standard No. and year	Title, scope and purport
SANS 10086-1:2011 (SANS 10086-1:2003)	<i>The installation, inspection and maintenance of equipment used in explosive atmospheres - Part 1: Installations including surface installations on mines.</i> Covers the installation, inspection and maintenance of electrical and mechanical apparatus to be used in applications including surface installations on mines, in atmospheres that might be explosive because of the presence of gases, vapours, mist, dusts or fibres that are flammable in the presence of atmospheric oxygen.
SANS 10086-3:2011 (SABS 086-3:2001)	<i>The installation, inspection and maintenance of equipment used in explosive atmospheres - Part 3: Repair and overhaul of equipment.</i> Gives instructions on repair, overhaul and modification of groups I and II certified apparatus designed for use in explosive gas atmospheres, but does not cover ordinary maintenance. Applies to repairs done by repairers and users.
SANS 10087-2:2011 (SABS 087-2:1977)	<i>The handling, storage, distribution and maintenance of liquefied petroleum gas in domestic, commercial, and industrial installations - Part 2: Installation of LPG systems in mobile units, including but not limited to caravans, motor homes, park homes and mobile kitchens.</i> Gives the installation requirements, materials, method of construction and the installation of the equipment used in liquefied petroleum gas applications for mobile units, including but not limited to caravans, motor homes, park homes, mobile kitchens, trailers and semi-trailers. Also includes the safety requirements for gas on recreation vehicles and mobile ablution facilities.
SANS 10123:2011 (Ed. 1.2)	<i>The control of undesirable static electricity. Consolidated edition incorporating amendment No. 2.</i> Amended to change the designation of SABS standards to SANS standards, to update referenced standards, to move reference to legislation to the foreword, to modify the scope, to insert and correct formulae and a symbol.
SANS 10125:2011 (Ed. 1.3)	<i>The installation of flexible membrane linings in earth embankment reservoirs. Consolidated edition incorporating amendment No. 3.</i> Amended to update a referenced standard.
SANS 10129:2011 (Ed. 1.2)	<i>Plastics tape wrapping of steel pipelines. Consolidated edition incorporating amendment No. 2.</i> Amended to delete a footnote concerning the conductivity test, and to update referenced standards.
SANS 10136:2011 (Ed. 2.2)	<i>The cleaning and disinfecting of dairy equipment and soft-serve dispensing units. Consolidated edition incorporating amendment No. 2.</i> Amended to update a referenced standard.
SANS 10137:2011 (SABS 0137:2002)	<i>The installation of glazing in buildings.</i> Covers the design and installation of glazing and glazing materials used in buildings and is for applications described in SANS 10400-N, and for use by a competent person (glazing).
SANS 10145:2011 (Ed. 1.3)	<i>Concrete masonry construction. Consolidated edition incorporating amendment No. 3.</i> Amended to state in the foreword that the document is referenced in legislation, to change the designation from SABS standards to SANS standards, and to update referenced standards.
SANS 10146:2012 (Ed. 3.2)	<i>Laundry processes and management. Consolidated edition incorporating amendment No. 2.</i> Amended to update referenced standards and South African legislation referenced in the foreword.
SANS 10154-1:2012 (Ed. 1.3)	<i>Calibration of pure-tone audiometers - Part 1: Air conduction. Consolidated edition incorporating amendment No. 3.</i> Amended to update referenced standards.
SANS 10160-1:2011 (Ed. 1.1)	<i>Basis of structural design and actions for buildings and industrial structures - Part 1: Basis of structural design. Consolidated edition incorporating amendment No. 1.</i> Amended to update the scope, to delete the definitions of "acceptable" and "competent person", to modify the general pre-requisites, to correct a value in the table on the partial factors for actions for the ultimate limit state, to add a reference to annex B in the note to 7.4.2.2(a), and to add a cross reference to 7.4.3.2.
SANS 10160-2:2011 (Ed. 1.1)	<i>Basis of structural design and actions for buildings and industrial structures - Part 2: Self-weight and imposed loads. Consolidated edition incorporating amendment No. 1.</i> Amended to correct the table on imposed load on floors, balconies and stairs in buildings, to correct the table on imposed loads on floors due to industrial use and storage, and to correct a cross reference in 9.4.8.
SANS 10160-3:2011 (Ed. 1.1)	<i>Basis of structural design and actions for buildings and industrial structures - Part 3: Wind actions. Consolidated edition incorporating amendment No. 1.</i> Amended to clarify the requirements for basic values, to correct the figure on the map of the fundamental value of the basic wind speed, $v_{b,0}$ , to correct a value in the table on the variation of the $c_s(z)$ factor with height above ground level, to correct an equation in the clause on peak wind speed pressure, to clarify the requirements for vertical walls of rectangular plan buildings, to correct the key in the figures for the interpretation of zones for vertical walls, flat roofs and mono-pitch roofs, to correct the wind direction values in the tables on external pressure coefficients for mono-pitch roofs, duo-pitch roofs and hipped roofs, to correct a value and the key in the figure for the interpretation of loading zones for hipped roofs, to correct an overall force coefficient in the table on $c_{p,net}$ and $c_f$ values for duo-pitch canopies, to correct the symbol for height in the table on the key interpretation of signboards, to change the term "hexagon" to the term "hexadecagon" in the table on force coefficient $c_{f0}$ for regular polygonal sections, to correct the symbol for reference height in the clause on circular cylinders, to correct the symbol for the end-effect factor in the figures on pressure distribution for circular cylinders for different Reynolds number ranges and without end-effects and indicative values of the end-effect factor, $\psi_s$ , as a function of solidity ratio, $\phi$ versus slenderness, $\lambda$ , to correct the table on recommended values of $\lambda$ for cylinders, polygonal sections, rectangular sections, sharp-edged structural sections and lattice structures, to correct a symbol in equation (40), to correct a symbol in the explanation to equations (A.2) and (A.3), to add values and a variable to the figure on factor, $s$ , for cliffs and escarpments and the figure on factor, $s$ , for hills and ridges, and to add a variable to the clause on neighbouring structures.
SANS 10160-4:2011 (Ed. 1.1)	<i>Basis of structural design and actions for buildings and industrial structures - Part 4: Seismic actions and general requirements for buildings. Consolidated edition incorporating amendment No. 1.</i> Amended to correct the symbol for lateral displacement, to add a requirement for seismic hazard zones, to add a note to the clause on multi-directional resistance and stiffness, to add a note to the clause on torsional resistance and stiffness, to correct the symbols for shear forces, and to correct the value for a symbol in the clause on vertical distribution of seismic forces.

Standard No. and year	Title, scope and purport
SANS 10160-5:2011 (Ed. 1.1)	<i>Basis of structural design and actions for buildings and industrial structures - Part 5: Basis for geotechnical design and actions. Consolidated edition incorporating amendment No. 1.</i> Amended to clarify the requirements for characteristic resistance of a pile.
SANS 10160-6:2011 (Ed. 1.1)	<i>Basis of structural design and actions for buildings and industrial structures - Part 6: Actions induced by cranes and machinery. Consolidated edition incorporating amendment No. 1.</i> Amended to delete the definition of acceptable, to introduce the symbol for characteristic crane action, to correct a symbol used in the formula for transverse horizontal loads, to correct the figure for transverse loads, to correct a cross-reference for friction factor, to correct the symbol for wear of the rail (see table 7), to correct the figure for skewing angle and distance, and to modify the requirements for the determination of free forces.
SANS 10160-7:2011 (Ed. 1.1)	<i>Basis of structural design and actions for buildings and industrial structures - Part 7: Thermal actions. Consolidated edition incorporating amendment No. 1.</i> Amended to update the figures for isotherms of maximum and minimum shade air temperatures, and to renumber the equations in annex A.
SANS 10160-8:2011 (Ed. 1.1)	<i>Basis of structural design and actions for buildings and industrial structures - Part 8: Actions during execution. Consolidated edition incorporating amendment No. 1.</i> Amended to include reference to materials-based structural design standards.
SANS 10162-2:2011 (SABS 0162-2:1993)	<i>The structural use of steel - Part 2: Cold-formed steel structures.</i> Sets out minimum requirements for the design of structural members cold-formed to shape from carbon or low-alloy steel sheet, strip, plate or bar not more than 2,5 mm in thickness and used for load-carrying purposes in buildings. Applicable for structures other than buildings provided appropriate allowances are made for dynamic effects.
SANS 10183-1:2011 (Ed. 1.1)	<i>Adhesives for wood - Part 1: Terminology. Consolidated edition incorporating amendment No. 1.</i> Amended to change the title and the scope, to delete the normative references and the section covering classification, and to update referenced standards.
SANS 10222-3:2011 (SANS 10222-3:2006)	<i>Electrical security installations - Part 3: Electric fences (non-lethal).</i> Gives additional instructions for the installation and connection of electric fences to those given in SANS 60335-2-76. The requirements are given to improve the safety of electric fences and to decrease the likelihood of electromagnetic interference on communication systems. Covers electric fences powered by energizers supplied from all types of electric power sources such as batteries, solar cells, diesel or petrol generators and the electricity supply distribution systems.
SANS 10254:2012 (SANS 10254:2004)	<i>The installation, maintenance, replacement and repair of fixed electric storage water heating systems.</i> Covers the safe installation of new and replacement fixed electric storage water heaters, complete with all the relevant and applicable safety and hydraulic control units. Also covers the maintenance of storage water heating systems.
SANS 10373-2:2007/ ISO/IEC 10373-2:2006	<i>Identification cards - Test methods - Part 2: Cards with magnetic stripes. ISO/IEC technical corrigendum No. 1.</i> Corrected to change the clause on calibration, to change the table in the figure on filter characteristic, to change the clause "measure the card under test", and to change the clause on magnetic stripe adhesion.
SANS 10400-L:2011 (SABS 0400:1990)	<i>The application of the National Building Regulations - Part L: Roofs.</i> Establishes requirements for roof coverings and waterproofing systems, and drainage and waterproofing of flat roofs. It contains simple design and construction requirements for timber trusses, purlin rafters and rafters that have clear spans that do not exceed 8,0 m, for use with a range of commonly used roof coverings.
SANS 11202:2012/ ISO 11202:2010 (SANS 11202:1995)	<i>Acoustics - Noise emitted by machinery and equipment - Determination of emission sound pressure levels at a work station and at other specified positions applying approximate environmental corrections.</i> Specifies a method for determining the emission sound pressure levels of machinery or equipment, at a work station and at other specified positions nearby, <i>in situ</i> . With the method specified, the results of accuracy grade 2 (engineering grade) or accuracy grade 3 (survey grade) are obtained.
SANS 11407:2011/ ISO 1407:2009 (SANS 11407:2009)	<i>Rubber - Determination of solvent extract.</i> Specifies three methods for the quantitative determination of the material extractable from raw rubbers, both natural and synthetic, and their unvulcanized and vulcanized compounds.
SANS 11770-1:2012/ ISO/IEC 11770-1:2010 (SANS 11770-1:2004)	<i>Information technology - Security techniques - Key management - Part 1: Framework.</i> Establishes the general model on which key management mechanisms are based, defines the basic concepts of key management, specifies the characteristics of key management services, establishes general principles on the management of keying material during its life cycle, and establishes the conceptual model of key distribution.
SANS 13474:2012/ ISO 13474:2009 (SANS 13474:2005)	<i>Acoustics - Framework for calculating a distribution of sound exposure levels for impulsive sound events for the purposes of environmental noise assessment.</i> Specifies engineering methods to calculate the average sound emission for a distribution of impulse sound events for the purposes of environmental noise assessment. Applies to impulse sounds propagating long distances (for example 0,5 km to 30 km) from sources such as mining blasting, artillery firing and bomb explosions using conventional explosives of moderate size (for example 0,05 kg to 1 000 kg of TNT equivalent mass). Prevailing meteorological conditions and terrain are considered wherever possible.
SANS 13888-2:2011/ ISO/IEC 13888-2:2010 (SANS 13888-2:2004)	<i>Information technology - Security techniques - Non-repudiation - Part 2: Mechanisms using symmetric techniques.</i> Provides descriptions of generic structures that can be used for non-repudiation services, and of some specific communication-related mechanisms which can be used to provide non-repudiation of origin (NRO) and non-repudiation of delivery (NRD).
SANS 16326:2012/ ISO/IEC/IEEE 16326:2009 (SANS 16326:2003)	<i>Systems and software engineering - Life cycle processes - Project management.</i> Provides normative content specifications for project management plans covering software projects and software-intensive system projects.
SANS 18033-1:2007/ ISO/IEC 18033-1:2005	<i>Information technology - Security techniques - Encryption algorithms - Part 1: General. ISO/IEC amendment No. 1.</i> Amended to replace an existing bibliography.

Standard No. and year	Title, scope and purport
SANS 18033-3:2012 ISO/IEC 18033-3:2010 (SANS 18033-3:2007)	<i>Information technology - Security techniques - Encryption algorithms - Part 3: Block ciphers.</i> Specifies block ciphers.
SANS 18033-4:2007/ ISO/IEC 18033-4:2005	<i>Information technology - Security techniques - Encryption algorithms - Part 4: Stream ciphers. ISO/IEC amendment No. 1.</i> Amended to introduce two additional keystream generators (Rabbit and Decimv2) for use as stream ciphers.
SANS 19011:2012/ ISO 19011:2011 (SANS 19011:2003)	<i>Guidelines for auditing management systems.</i> Provides guidance on auditing management systems, including the principles of auditing, managing an audit programme and conducting management system audits, as well as guidance on the evaluation of competence of individuals involved in the audit process, including the person managing the audit programme, auditors and audit teams. Is applicable to all organizations that need to conduct internal or external audits of management systems or manage an audit programme.
SANS 19119:2005/ ISO 19119:2005	<i>Geographic information - Services. ISO amendmend No. 1.</i> Amended to focus on extensions of the service metadata model, concerning a more detailed description of associated datasets of a service instance.
SANS 20000-1:2011/ ISO/IEC 20000-1:2011 (SANS 20000-1:2006)	<i>Information technology - Service management - Part 1: Service management system requirements.</i> Specifies requirements for the service provider to plan, establish, implement, operate, monitor, review, maintain and improve an SMS. The requirements include the design, transition, delivery and improvement of services to fulfil service requirements.
SANS 20000-1:2011/ ISO/IEC 20000-1:2011	<i>Information technology - Service management - Part 1: Service management system requirements. National amendment No. 1.</i> Amended to add national informative annexes AA, BB and CC in order to indicate how this standard corresponds with the previous edition (SANS 20000-1:2006), and also with ISO 9001:2008 (published in South Africa as an identical adoption under the designation SANS 9001) and ISO/IEC 27001:2005 (published in South Africa as an identical adoption under the designation SANS 27001)..
SANS 20030:2011/ ECE R30:2007 (SANS 20030:2007)	<i>Uniform provisions concerning the approval of pneumatic tyres for motor vehicles and their trailers.</i> Applies to new pneumatic tyres that are designed primarily for vehicles of categories M1, N1, O1 and O2. Does not apply to tyres that are designed primarily for the equipment for vintage cars and competitions.
SANS 20030:2011/ ECE R30:2007	<i>Uniform provisions concerning the approval of pneumatic tyres for motor vehicles and their trailers. ECE amendment No. 1.</i> Amended to change certain definitions, and to change requirements for markings, tyre dimensions and tyre marking arrangements. <i>ECE amendment No. 2.</i> Amended to change the scope and to add a footnote to the scope.
SANS 20926:2012/ ISO/IEC 20926:2009 (SANS 20926:2004)	<i>Software and systems engineering - Software measurement - IFPUG functional size measurement method 2009.</i> Specifies the set of definitions, rules and steps for applying the IFPUG functional size measurement (FSM) method.
SANS 29001:2012/ ISO/TS 29001:2010 (SANS 29001:2009)	<i>Petroleum, petrochemical and natural gas industries - Sector-specific quality management systems - Requirements for product and service supply organizations.</i> Specifies requirements for a quality management system where an organization needs to demonstrate its ability to consistently provide product that meets customer and applicable statutory and regulatory requirements, and aims to enhance customer satisfaction through the effective application of the system, including processes for continual improvement of the system and the assurance of conformity to customer and applicable statutory and regulatory requirements.
SANS 50081-3:2005/ EN 81-3:2000	<i>Safety rules for the construction and installation of lifts - Part 3: Electric and hydraulic service lifts. EN amendment No. 1.</i> Amended to update referenced documents, to change the technical details and plans in the annex on the technical dossier, and to add two new annexes on relationship between this standard and the essential requirements of EC Directive 98/37/EC and relationship between this standard and the essential requirements of EC Directive 2006/42/EC, respectively. <i>EN corrigendum.</i> Corrected to change referenced documents, and to add the safety sign in the clause on car roof.
SANS 50436-1:2012/ EN 50436-1:2005	<i>Alcohol interlocks - Test methods and performance requirements - Part 1: Instruments for drink-driving-offender programs. Consolidated edition incorporating EN corrigendum.</i> The scope of the corrigendum was not available
SANS 50436-2:2012/ EN 50436-2:2005	<i>Alcohol interlocks - Test methods and performance requirements - Part 2: Instruments having a mouthpiece and measuring breath alcohol for general preventive use. Consolidated edition incorporating EN corrigendum.</i> The scope of the corrigendum was not available.
SANS 54476:2011/ EN 14476:2005	<i>Chemical disinfectants and antiseptics - Virucidal quantitative suspension test for chemical disinfectants and antiseptics used in human medicine - Test method and requirements (phase 2, step 1). EN amendment No. 1.</i> Amended to change the concentration of the semisolid medium used in the plaque assay test.
SANS 60076-1:2011/ IEC 60076-1:2011 (SANS 60076-1:2008)	<i>Power transformers - Part 1: General.</i> Applies to three-phase and single-phase power transformers (including auto-transformers) with the exception of certain categories of small and special transformers such as single-phase transformers with rated power less than 1 kVA and three-phase transformers less than 5 kVA; transformers that have no windings with rated voltage higher than 1 000 V; instrument transformers; traction transformers mounted on rolling stock; starting transformers; testing transformers; welding transformers; explosion-proof and mining transformers and transformers for deep water (submerged) applications.
SANS 60076-2:2011 IEC 60076-2:2011 (SANS 60076-2:1993)	<i>Power transformers - Part 2: Temperature rise for liquid-immersed transformers.</i> Applies to liquid-immersed transformers, identifies power transformers according to their cooling methods, defines temperature rise limits and gives the methods for temperature rise tests.
SANS 60079-19:2011/ IEC 60079-19:2010 (SANS 60079-19:2007)	<i>Explosive atmospheres - Part 19: Equipment repair, overhaul and reclamation.</i> Gives instructions, principally of a technical nature, on the repair, overhaul, reclamation and modification of equipment designed for use in explosive atmospheres; it is not applicable to maintenance, other than when repair and overhaul cannot be disassociated from maintenance, neither does it give advice on cable entry systems which may require renewal when the equipment is re-installed; it is not applicable to type of protection 'm', 'o' and 'q'. Assumes that good engineering practices are adopted throughout.



Standard No. and year	Title, scope and purport
SANS 60079-26:2007/ IEC 60079-26:2006	<i>Explosive atmospheres - Part 26: Equipment with equipment protection level (EPL) Ga. IEC corrigendum No. 1.</i> Corrected to give new examples of the markings on products for EPL and non-EPL areas.
SANS 60086-1:2011/ IEC 60086-1:2011 (SANS 60086-1:2007)	<i>Primary batteries - Part 1: General.</i> Specifies the standardization of primary batteries with respect to dimensions, nomenclature, terminal configurations, markings, test methods, typical performance, safety and environmental aspects.
SANS 60670-24:2011/ IEC 60670-24:2011 (SANS 60670-24:2006)	<i>Boxes and enclosures for electrical accessories for household and similar fixed electrical installations - Part 24: Particular requirements for enclosures for housing protective devices and other power dissipating electrical equipment.</i> Applies to enclosures and parts of them for housing protective devices and other power dissipating electrical equipment intended to be used with a rated voltage not exceeding 400 V and a total incoming load current not exceeding 125 A for household and similar fixed electrical installations.
SANS 61000-4-16:2011/ IEC 61000-4-16:2011 (Ed. 1.2)	<i>Electromagnetic compatibility (EMC) - Part 4-16: Testing and measurement techniques - Test for immunity to conducted, common mode disturbances in the frequency range 0 Hz to 150 kHz. Consolidated edition incorporating IEC amendment No. 2.</i> Amended to remove, from the scope, text relating to ITU-T Recommendations, to replace dated references by undated references, to clarify the text under "Characteristics and performance of the generator...", to delete a note and add new text under "Execution of the test", and to clarify text in the "Test report".
SANS 61000-6-3:2011/ IEC 61000-6-3:2011	<i>Electromagnetic compatibility (EMC) - Part 6-3: Generic standards - Emission standard for residential, commercial and light-industrial environments. IEC interpretation sheet No. 1 to IEC amendment No. 1.</i> Changed to indicate that the measurement instrumentation uncertainty shall be calculated and compared with the budgets defined in CISPR 16-4-2 (published in South Africa as an identical adoption under the designation SANS 216-4-2).
SANS 61000-6-4:2011/ IEC 61000-6-4:2011	<i>Electromagnetic compatibility (EMC) - Part 6-4: Generic standards - Emission standard for industrial environments. IEC interpretation sheet No. 1 to IEC amendment No. 1.</i> Changed to indicate that the measurement instrumentation uncertainty shall be calculated and compared with the budgets defined in CISPR 16-4-2 (published in South Africa as an identical adoption under the designation SANS 216-4-2).
SANS 61008-1:2011/ IEC 61008-1:2010 (SANS 61008-1:2006)	<i>Residual current operated circuit-breakers without integral overcurrent protection for household and similar uses (RCCBs) Part 1: General rules.</i> Applies to residual current operated circuit-breakers functionally independent of, or functionally dependent on, line voltage, for household and similar uses, not incorporating overcurrent protection, for rated voltages not exceeding 440 V a.c. with rated frequencies of 50 Hz, 60 Hz or 50/60 Hz and rated currents not exceeding 125 A, intended principally for protection against shock hazard.
SANS 61058-2-1:2011/ IEC 61058-2-1:2010 (SANS 61058-2-1:1992)	<i>Switches for appliances - Part 2-1: Particular requirements for cord switches.</i> Applies to cord switches (mechanical or electronic) for appliances actuated by hand, by foot or by other human activity, to operate or control electrical appliances and other equipment for household or similar purposes with a rated voltage not exceeding 250 V and a rated current not exceeding 16 A.
SANS 61058-2-5:2011/ IEC 61058-2-5:2010 (SANS 61058-2-5:1994)	<i>Switches for appliances - Part 2-5: Particular requirements for change-over selectors.</i> Applies to change-over selectors (mechanical or electronic) for appliances actuated by hand, by foot or by other human activity, to operate or control electrical appliances and other equipment for household or similar purposes with a rated voltage not exceeding 480 V and a rated current not exceeding 63 A.
SANS 61241-0:2005/ IEC 61241-0:2004	<i>Electrical apparatus for use in the presence of combustible dust - Part 0: General requirements. IEC corrigendum No. 1.</i> Corrected to renumber subclauses.
SANS 61241-11:2007/ IEC 61241-11:2005	<i>Electrical apparatus for use in the presence of combustible dust - Part 11: Protection by intrinsic safety "iD". IEC corrigendum No. 1.</i> Corrected to replace table in the scope regarding exclusions of apparatus directly applicable to associated apparatus intended for use in situations where there is no potentially hazardous atmosphere.

### 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 204-1:2008	<i>Energy efficiency in buildings - Part 1: General requirements</i>
SANS 204-2:2008	<i>Energy efficiency in buildings - Part 2: The application of the energy efficiency requirements for buildings with natural environmental control</i>
SANS 204-3:2008	<i>Energy efficiency in buildings - Part 3: The application of the energy efficiency requirements for buildings with artificial ventilation or air conditioning</i>
SANS 307:2005	<i>Penetration grade bitumens</i>
SANS 308:2009	<i>Cutback bitumen (Metric units)</i>
SANS 562:1956	<i>Canned hake (Cape cod)</i>
SANS 935:2007	<i>Hot-dip (galvanized) zinc coatings on steel wire</i>



SANS 1068:2008	<i>Coats and jackets (protective, unlined)</i>
SANS 1431:2007	<i>Weldable structural steels</i>
SANS 5843:2008	<i>Water absorption of aggregates</i>
SANS 5852:2008	<i>Plastic limit and plasticity index of fines in aggregates for base-courses</i>
SANS 5853:2008	<i>Linear shrinkage of fines in aggregates for base-courses</i>
SANS 6161:2005	<i>Non-recoverable extension of textile floor coverings as imposed by mechanical action</i>
SANS 6340:2004	<i>Water quality - Detection of Salmonella species</i>
SANS 10202-1:1991	<i>Financial transaction cards - Security architecture of financial transaction systems using integrated circuit cards - Part 1: Card life cycle</i>
SANS 15946-2:2007	<i>Information technology - Security techniques - Cryptographic techniques based on elliptic curves - Part 2: Digital signatures</i>
SANS 15946-4:2007	<i>Information technology - Security techniques - Cryptographic techniques based on elliptic curves - Part 4: Digital signatures giving message recovery</i>
SANS 300339:1998	<i>Electromagnetic compatibility and Radio spectrum Matters (ERM) - General ElectroMagnetic Compatibility (EMC) for radio communications equipment</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.