

**DEPARTMENT OF TRADE AND INDUSTRY  
DEPARTEMENT VAN HANDEL EN NYWERHEID**

No. 593

1 August 2014

**STANDARDS ACT, 2008  
STANDARDS MATTERS**

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

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
ARP 0109:2014	<i>Recommendations for specifying sets of tests for periodic testing of sound level meters and accompanying instruments.</i> Outlines the minimum set of parameters and ranges proposed for periodic testing of sound level meters, microphones used with sound level meters, sound calibrators, fractional octave band filters and personal sound exposure meters in order to state conformance to the relevant IEC standards.
SANS 519:2014	<i>Management and implementation requirements for projects that use non-metallic materials in hazardous or pressurized applications.</i> Covers the requirements for equipment and systems, as defined in the relevant national legislation, that use non-metallic materials. Also includes applications where dangerous substances are used.
SANS 721:2014	<i>Polypropylene (PP) pipes and pipe fittings for soil, waste and vent applications for above-ground use.</i> Covers polypropylene (PP) pipes (including vent pipes) and pipe fittings of nominal sizes 40 mm to 160 mm intended for above-ground non-pressure applications.
SANS 1314:2014	<i>Industrial fuel oil for burner applications.</i> Specifies requirements and test methods for three categories with multiple grades of industrial fuel oils for burner use.
SANS 1347:2014	<i>Paper carry bags.</i> Covers paper bags that are intended for use primarily in the wholesale and retail trade as carry bags.
SANS 1368:2014	<i>Automatic identification and data capture techniques - Data structures - Digital Signature meta structure.</i> Specifies effective and interoperable methods to verify the integrity and authenticity of data objects carried in an Automated Identification Data Carrier in an offline environment as a Digital Signature.
SANS 1414:2014	<i>General specification and testing procedures for sealed insulated glass units (SIGU).</i> Specifies performance requirements and associated test methods for the sealing arrangements and fabrication of factory made sealed insulating glass units.
SANS 1541:2014	<i>Hospital loan sets.</i> Covers requirements for loan set management principles between manufacturers, suppliers and health care facilities.
SANS 1630-2:2014/ ISO 10263-2:2009	<i>Earth-moving machinery - Operator enclosure environment - Part 2: Air filter element test method.</i> Specifies a uniform test method to determine performance levels of operator enclosure panel-type air filters used to filter the air entering an earth-moving machine operator enclosure with a powered fresh air system.
SANS 1630-3:2014/ ISO 10263-3:2009	<i>Earth-moving machinery - Operator enclosure environment - Part 3: Pressurization test method.</i> Specifies a test method which will provide for uniform measurement of the maximum pressurization inside an operator enclosure of an earth-moving machine when equipped with a pressurization system.
SANS 1630-4:2014/ ISO 10263-4:2009	<i>Earth-moving machinery - Operator enclosure environment - Part 4: Heating, ventilating and air conditioning (HVAC) test method and performance.</i> Specifies a uniform test method for measuring the contribution to operator environmental temperature provided by a heating, ventilating and air conditioning system operating in a specific ambient environment.
SANS 1641:2014/ ISO 10264:1990	<i>Earth-moving machinery - Key-locked starting systems.</i> Specifies the performance requirements and location for a key-locked starting system or other equivalent means of obviating unauthorized starting of earth-moving machinery. Applies to all types of earth-moving machinery as defined in ISO 6165 (published in South Africa as an identical adoption under the designation SANS 261).
SANS 1717-3:2014	<i>The design and approval of detonator initiation systems for use in mining and civil blasting applications - Part 3: Controlled blasting systems.</i> Covers the constructional requirements of blasting and other related systems, used in the controlled initiation of explosive blasts.

Standard No. and year	Title, scope and purport
SANS 3001-AG14:2014	<i>Civil engineering test methods - Part AG14: Determination of the ethylene glycol durability index for rock.</i> Applies to aggregates and describes a method to classify the durability of rock by soaking it in ethylene glycol and rating the disintegration that occurs over time.
SANS 3001-AG16:2014	<i>Civil engineering test methods - Part AG16: Determination of the durability mill index values for aggregates.</i> Describes a method for determining the durability mill index values of a prepared aggregate sample, by measuring the fines generated by rotating the sample in a drum with a set of steel spheres.
SANS 3001-NG1:2014	<i>Civil engineering test methods - Part NG1: Administration, handling and maintenance of a nuclear density gauge.</i> Describes procedures in terms of the relevant national legislation to control the administration, handling and maintenance of a nuclear density gauge, as well as the requirements for calibration and verification of a nuclear density gauge.
SANS 3001-NG2:2014	<i>Civil engineering test methods - Part NG2: Validation of standard calibration blocks for nuclear density gauges.</i> Describes a procedure to validate a standard set of calibration blocks against a national reference set.
SANS 3001-NG3:2014	<i>Civil engineering test methods - Part NG3: Calibration of a nuclear density gauge.</i> Describes a procedure to calibrate a nuclear density gauge using a standard set of blocks.
SANS 3001-NG4:2014	<i>Civil engineering test methods - Part NG4: Verification of a nuclear density gauge.</i> Describes a procedure to verify a nuclear density gauge using a standard set of blocks.
SANS 3001-NG5:2014	<i>Civil engineering test methods - Part NG5: Determination of in situ density using a nuclear density gauge.</i> Describes a method to determine the in situ density of gravels, sands and soils using a nuclear density gauge.
SANS 3382-1:2014/ ISO 3382-1:2009	<i>Acoustics - Measurement of room acoustic parameters - Part 1: Performance spaces.</i> Specifies methods for the measurement of reverberation time and other room acoustical parameters in performance spaces. Describes the measurement procedure, the apparatus needed, the coverage required, and the method of evaluating the data and presenting the test report. Is intended for the application of modern digital measuring techniques and for the evaluation of room acoustical parameters derived from impulse responses.
SANS 3382-2:2014/ ISO 3382-2:2008	<i>Acoustics - Measurement of room acoustic parameters - Part 2: Reverberation time in ordinary rooms.</i> Specifies methods for the measurement of reverberation time in ordinary rooms. Describes the measurement procedure, the apparatus needed, the required number of measurement positions, and the method for evaluating the data and presenting the test report. The measurement results can be used for correction of other acoustic measurements.
SANS 3382-3:2014/ ISO 3382-3:2012	<i>Acoustics - Measurement of room acoustic parameters - Part 3: Open plan offices.</i> Specifies methods for the measurement of room acoustic properties in open plan offices with furnishing. Specifies measurement procedures, the apparatus needed, the coverage required, the method for evaluating the data, and the presentation of the test report.
SANS 3411:2014/ ISO 3411:2007	<i>Earth-moving machinery - Physical dimensions of operators and minimum operator space envelope.</i> Provides the dimensions of operations of earth-moving machinery as defined in ISO 6165 (published in South Africa as an identical adoption under the designation SANS 261) and specifies the minimum normal operating space envelope within the operator enclosures. Does not apply to machines manufactured prior to the date of its publication.
SANS 4001-BT3:2014	<i>Civil engineering specifications - Part BT3: Anionic bitumen road emulsion.</i> Covers the requirements for three types (each of 60 % binder content) of anionic bitumen road emulsions suitable for the preparation and treatment of road and other surfaces carrying wheeled and foot traffic.
SANS 4001-BT4:2014	<i>Civil engineering specifications - Part BT4: Cationic bitumen road emulsion.</i> Covers the requirements for three types of cationic bitumen road emulsions suitable for the preparation and treatment of road and other surfaces carrying wheeled and foot traffic.
SANS 4001-BT5:2014	<i>Civil engineering specifications - Part BT5: Inverted bitumen road emulsion.</i> Covers the requirements for one type of inverted bitumen emulsion intended for use as a primer on dry, firm, and dust-free road bases, and especially where rapid drying (within 48 h) characteristics are required.
SANS 4210:2014/ ISO 4210:1996	<i>Cycles - Safety requirements for bicycles.</i> Specifies safety and performance requirements for the design, assembly and testing of bicycles and sub-assemblies and lays down guidelines for instructions on the use and care of bicycles.
SANS 6405-1:2014/ ISO 6405-1:2004	<i>Earth-moving machinery - Symbols for operator controls and other displays - Part 1: Common symbols.</i> Establishes the common symbols for use on operator controls and other displays on earth-moving machinery as defined in ISO 6165 (published in South Africa as an identical adoption under the designation SANS 261). It is also applicable to other types of self-propelled work machines designed to operate off public roads.
SANS 6682:2014/ ISO 6682:1986	<i>Earth-moving machinery - Zones of comfort and reach for controls.</i> Defines zones of comfort and reach for controls derived from the overlapping reach capability of large and small operators in the seated position.
SANS 6742-1:2014/ ISO 6742-1:1987	<i>Cycles - Lighting and retro-reflective devices - Photometric and physical requirements - Part 1: Lighting equipment.</i> Specifies photometric and physical requirements, test methods, and marking requirements for lighting equipment for cycles.

Standard No. and year	Title, scope and purport
SANS 6750:2014/ ISO 6750:2005	<i>Earth-moving machinery - Operator's manual - Content and format.</i> Specifies the content and gives guidance on the format of operator's manuals for earthmoving machinery as defined in ISO 6165 (published in South Africa as an identical adoption under the designation SANS 261). Is intended to assist manufacturers of the machinery in the drafting and presentation of these manuals.
SANS 7346-1:2014/ ISO 7346-1:1996	<i>Water quality - Determination of the acute lethal toxicity of substances to a freshwater fish [Brachydanio rerio Hamilton-Buchanan (Teleostei, Cyprinidae)] - Part 1: Static method.</i> Specifies a static method for the determination of the acute lethal toxicity of stable, non-volatile, single substances, soluble in water under specified conditions, to a freshwater fish [Brachydanio rerio Hamilton-Buchanan (Teleostei, Cyprinidae) - common name, zebra fish] in water of a specified quality.
SANS 8098:2014/ ISO 8098:2002	<i>Cycles - Safety requirements for bicycles for young children.</i> Specifies safety and performance requirements and test methods for the design, assembly and testing of bicycles for young children of about four to eight years of age, as well as these bicycles' sub-assemblies. Also provides guidelines for instructions on the use and care of bicycles.
SANS 10177-12:2014/ ASTM E 108:2011	<i>Fire testing of materials, components and elements used in buildings - Part 12: Test methods for fire tests of roof coverings.</i> Covers the measurement of the relative fire characteristics of roof coverings under simulated fire originating outside the building.
SANS 10904:2014/ ISO 10904:2011	<i>Fibre-cement corrugated sheets and fittings for roofing and cladding.</i> Specifies technical requirements and methods for the inspection and testing of straight short and long fibre-cement profiled sheets and their fibre-cement fittings designed to provide the weather-exposed surfaces on roofs and internal and external walls of buildings.
SANS 11243:2014/ ISO 11243:1994	<i>Cycles - Luggage carriers for bicycles - Concepts, classification and testing.</i> Specifies dimensions and performance requirements for luggage carriers intended for mounting above the rear wheels of bicycles.
SANS 11348-3:2014/ ISO 11348-3:2007	<i>Water quality - Determination of the inhibitory effect of water samples on the light emission of Vibrio fischeri (Luminescent bacteria test) - Part 3: Method using freeze-dried bacteria.</i> Describes three methods for determining the inhibition of the luminescence emitted by the marine bacterium <i>Vibrio fischeri</i> (NRRL B-11177).
SANS 11469:2014/ ISO 11469:2000	<i>Plastics - Generic identification and marking of plastics products.</i> Specifies a system of uniform marking of products that have been fabricated from plastics materials. Does not include provision for the process or processes to be used for marking.
SANS 14380:2014/ ISO 14380:2011	<i>Water quality - Determination of the acute toxicity to Thamnocephalus platyurus (crustacea, Anostraca).</i> Specifies a method for the determination of the lethal effects of toxicants to <i>Thamnocephalus platyurus</i> test organisms after 24 h exposure.
SANS 14401-1:2014/ ISO 14401-1:2009	<i>Earth-moving machinery - Field of vision of surveillance and rear-view mirrors - Part 1: Test methods.</i> Specifies a static test method for determining the field of vision provided by surveillance and rear view mirrors fitted on earthmoving machinery as defined in ISO 6165 (published in South Africa as an identical adoption under the designation SANS 261).
SANS 16073:2014/ ISO 16073:2011	<i>Wildland firefighting personal protective equipment - Requirements and test methods.</i> Specifies minimum performance requirements and methods of test for wildland firefighters' personal protective equipment (PPE) designed for use for extended periods of wildland firefighting.
SANS 16528-1:2014/ ISO 16528-1:2007	<i>Boilers and pressure vessels - Part 1: Performance requirements.</i> Defines the performance requirements for the construction of boilers and pressure vessels.
SANS 16528-2:2014/ ISO 16528-2:2007	<i>Boilers and pressure vessels - Part 2: Procedures for fulfilling the requirements of ISO 16528-1.</i> Provides a procedure and a standard format for standard-issuing bodies to demonstrate that their standards fulfil the performance requirements of ISO 16528-1 (published in South Africa as an identical adoption under the designation SANS 16528-1).
SANS 17063:2014/ ISO 17063:2003	<i>Earth-moving machinery - Braking systems of pedestrian-controlled machines - Performance requirements and test procedures.</i> Specifies minimum performance criteria and tests for braking systems, enabling uniform assessment of the braking capability of pedestrian-controlled, self-propelled earth-moving machinery with a machine mass greater than 115 kg and a travel speed of less than 6 km/h. Applies to both service and parking brakes.
SANS 17067:2014/ ISO /IEC 17067:2013	<i>Conformity assessment - Fundamentals of product certification and guidelines for product certification schemes.</i> Describes the fundamentals of product certification and provides guidelines for understanding, developing, operating or maintaining certification schemes for products, processes and services. It is intended for use by all with an interest in product certification, and especially by certification scheme owners.
SANS 20665:2014/ ISO 20665:2008	<i>Water quality - Determination of chronic toxicity to Ceriodaphnia dubia.</i> Specifies a method for the determination of the chronic toxicity to <i>Ceriodaphnia dubia</i> (Cladocera, Crustacea), based on reproduction inhibition after (7 ± 1) d. Is applicable to chemical substances which are soluble or which can be maintained as stable suspensions or dispersions under the conditions of the test, industrial or sewage effluents, if appropriate after decantation, filtration or centrifugation, and fresh waters as well as aqueous extracts. Is not applicable to the testing of aquatic samples from the estuarine or marine environment.

Standard No. and year	Title, scope and purport
SANS 21500:2014/ ISO 21500:2012	<i>Guidance on project management.</i> Provides guidance for project management and can be used by any type of organization, including public, private or community organizations, and for any type of project, irrespective of complexity, size or duration. Provides high-level description of concepts and processes that are considered to form good practice in project management.
SANS 28927-1:2014/ ISO 28927-1:2009	<i>Hand-held portable power tools - Test methods for evaluation of vibration emission - Part 1: Angle and vertical grinders.</i> Specifies a laboratory method for measuring hand-transmitted vibration emission at the handles of hand-held power-driven angle and vertical grinders. This is a type-test procedure for establishing the magnitude of vibration in the gripping areas of a machine fitted with a specified test wheel and run under no-load conditions.
SANS 28927-2:2014/ ISO 28927-2:2009	<i>Hand-held portable power tools - Test methods for evaluation of vibration emission - Part 2: Wrenches, nutrunners and screwdrivers.</i> Specifies a laboratory method for measuring hand-transmitted vibration emission at the handles of hand-held power-driven wrenches, nutrunners and screwdrivers used for tightening and loosening threaded fasteners.
SANS 28927-3:2014/ ISO 28927-3:2009	<i>Hand-held portable power tools - Test methods for evaluation of vibration emission - Part 3: Polishers and rotary, orbital and random orbital sanders.</i> Specifies a laboratory method for measuring hand-transmitted vibration emission at the handles of hand-held, power-driven, portable polishers and rotary, orbital and random orbital sanders used for surface-finishing processes, not for material removal. It is a type-test procedure for establishing the magnitude of vibration in the gripping areas of a machine when operating under type-test conditions. It is intended that the results be used to compare different models of the same type of machine.
SANS 28927-4:2014/ ISO 28927-4:2009	<i>Hand-held portable power tools - Test methods for evaluation of vibration emission - Part 4: Straight grinders.</i> Specifies a laboratory method for measuring hand-transmitted vibration emission at the handles of straight grinders. It is a type-test procedure for establishing the magnitude of vibration in the gripping areas of a machine fitted with a specified test wheel and run under no-load conditions.
SANS 28927-5:2014/ ISO 28927-5:2009	<i>Hand-held portable power tools - Test methods for evaluation of vibration emission - Part 5: Drills and impact drills.</i> Specifies a laboratory method for measuring hand-transmitted vibration emission at the handles of hand-held, power-driven drills and impact drills. It is a type-test procedure for establishing the magnitude of vibration in the gripping areas of a drill fitted with a drill bit. It is intended that the results be used to compare different models of the same type of machine.
SANS 28927-6:2014/ ISO 28927-6:2009	<i>Hand-held portable power tools - Test methods for evaluation of vibration emission - Part 6: Rammers.</i> Specifies a laboratory method for measuring hand-transmitted vibration emission at the handles of hand-held, power-driven rammers. It is a type-test procedure for establishing the magnitude of vibration in the gripping areas of a machine run under specified test conditions. It is intended that the results be used to compare different models of the same type of machine.
SANS 28927-7:2014/ ISO 28927-7:2009	<i>Hand-held portable power tools - Test methods for evaluation of vibration emission - Part 7: Nibblers and shears.</i> Specifies a laboratory method for measuring hand-transmitted vibration emission at the handles of hand-held, power-driven nibblers and shears. It is a type-test procedure for establishing the magnitude of vibration in the gripping areas of a machine run under specified test conditions. It is intended that the results be used to compare different models of the same type of machine.
SANS 28927-9:2014/ ISO 28927-9:2009	<i>Hand-held portable power tools - Test methods for evaluation of vibration emission - Part 9: Scaling hammers and needle scalars.</i> Specifies a laboratory method for measuring hand-transmitted vibration emission at the handles of hand-held, power-driven scaling hammers and needle scalars. It is a type-test procedure for establishing the magnitude of vibration in the gripping areas of a machine run under specified test conditions. It is intended that the results be used to compare different models of the same type of machine.
SANS 28927-10:2014/ ISO 28927-10:2009	<i>Hand-held portable power tools - Test methods for evaluation of vibration emission - Part 10: Percussive drills, hammers and breakers.</i> Specifies a laboratory method for measuring hand-transmitted vibration emission at the handles of hand-held power driven percussive machines with and without rotary action [portable rock drills, plug hole drills, rotary hammers, breakers (e.g. pavement breakers, concrete breakers or road breakers), riveting hammers, chipping hammers, pick hammers or similar]. It is a type-test procedure for establishing the magnitude of vibration in the gripping areas of a machine fitted with an inserted tool bit.
SANS 28927-11:2014/ ISO 28927-11:2009	<i>Hand-held portable power tools - Test methods for evaluation of vibration emission - Part 11: Stone hammers.</i> Specifies a laboratory method for measuring hand-transmitted vibration emission at the handles of hand-held stone hammers. It is a type-test procedure for establishing the magnitude of vibration in the gripping areas of a stone hammer when operated in laboratory conditions. It is intended that the results be used to compare different models of the same type of machine.
SANS 28927-12:2014/ ISO 28927-12:2009	<i>Hand-held portable power tools - Test methods for evaluation of vibration emission - Part 12: Die grinders.</i> Specifies a laboratory method for measuring hand-transmitted vibration emission at the handles of hand-held power driven portable die grinders. It is a type-test procedure for establishing the magnitude of vibration in the gripping areas of the machines where operating under type test conditions. It is intended that the results be used to compare different models of the same type of machine.
SANS 29100:2014/ ISO/IEC 29100:2011	<i>Information technology - Security techniques - Privacy framework.</i> Provides a privacy framework which specifies a common privacy terminology, describes privacy safe-guarding considerations, provides references to known privacy principles for information technology, and defines the actors and their roles in processing personally identifiable information (PII).

Standard No. and year	Title, scope and purport
SANS 50469:2014/ EN 469:2005	<i>Protective clothing for firefighters - Performance requirements for protective clothing for firefighting.</i> Specifies minimum levels of performance requirements for protective clothing to be worn during firefighting operations and associated activities (excluding chemical or gas cleaning operations). Covers the general clothing design, the minimum performance levels of the materials used, and the methods of test to be used to determine these performance levels.
SANS 51717:2014/ EN 1717:2000	<i>Protection against pollution of potable water in water installations and general requirements of devices to prevent pollution by backflow.</i> Deals with the means to be used to prevent the pollution of potable water inside premises and the general requirements of protection devices to avoid pollution by backflow.
SANS 53743:2014/ EN 13743:2009	<i>Safety requirements for coated abrasive products.</i> Applies to the following coated abrasive products: flap wheels, flap discs, vulcanised fibre discs and spindle mounted flap wheels. Also applies to back-up pads for vulcanised fibre discs. Specifies requirements or measures (or both) for the removal or reduction of hazards resulting from the design and application of the coated abrasive products and clamping devices. Contains procedures and tests for verification of compliance with the requirements as well as safety information for use, which is to be made available to the user by the manufacturer.
SANS 53831:2014/ EN 13831:2007	<i>Closed expansion vessels with built in diaphragm for installation in water.</i> Specifies requirements for the design, manufacture and testing of closed expansion vessels with built in diaphragm.
SANS 60601-2-63:2014/ IEC 60601-2-63:2012	<i>Medical electrical equipment - Part 2-63: Particular requirements for the basic safety and essential performance of dental extra-oral X-ray equipment.</i> Applies to the basic safety and essential performance of dental extra-oral X-ray equipment, hereafter also called ME equipment. Includes ME systems that contain such ME equipment. Provides a complete set of basic safety and essential performance requirements for dental extra-oral x-ray equipment. Covers the system level of dental extra-oral x-ray equipment. Covers components and their functions as far as necessary.
SANS 60601-2-65:2014/ IEC 60601-2-65:2012	<i>Medical electrical equipment - Part 2-65: Particular requirements for the basic safety and essential performance of dental intra-oral X-ray equipment.</i> Applies to the basic safety and essential performance of dental intra-oral X-ray equipment and its main components. Only applies to X-ray equipment where the X-ray tube assembly contains the high-voltage transformer assembly. Excludes dental extra-oral X-ray equipment. Provided a complete set of basic safety and essential performance requirements for dental intra-oral X-ray equipment. Covers the system level of dental intra-oral X-ray equipment.
SANS 60601-2-66:2014/ IEC 60601-2-66:2012	<i>Medical electrical equipment - Part 2-66: Particular requirements for the basic safety and essential performance of hearing instruments and hearing instrument systems.</i> Applies to the basic safety of hearing instruments and hearing instrument systems.
SANS 60947-7-4:2014/ IEC 60947-4:2013	<i>Low-voltage switchgear and controlgear - Part 7-4: Ancillary equipment - PCB terminal blocks for copper conductors.</i> Specifies requirements for PCB terminal blocks primarily intended for industrial or similar use.
SANS 60974-8:2014/ IEC 60974-8:2009	<i>Low-voltage switchgear and controlgear - Part 8: Control units for built-in thermal protection (PTC) for rotating electrical machines.</i> Specifies rules for control units, which perform the switching functions in response to the thermal detectors incorporated in rotating electrical machines according to IEC 60034-11 (published in South Africa as an identical adoption under the designation SANS 60034-11), and the industrial application.
SANS 61851-1:2014/ IEC 61851-1:2010	<i>Electric vehicle conductive charging system - Part 1: General requirements.</i> Applies to on-board and off-board equipment for charging electric road vehicles at standard a.c. supply voltages (as per IEC 60038) up to 1 000 V and at d.c. voltages up to 1 500 V, and for providing electrical power for any additional services on the vehicle if required when connected to the supply network.
SANS 61851-21:2014/ IEC 61851-21:2001	<i>Electric vehicle conductive charging system - Part 21: Electric vehicle requirements for conductive connection to an a.c./d.c. supply.</i> Gives the electric vehicle requirements for conductive connection to an a.c. or d.c. supply, for a.c. voltages according to IEC 60038 up to 690 V and for d.c. voltages up to 1 000 V, when the electric vehicle is connected to the supply network. Does not cover class II vehicles.
SANS 61851-22:2014/ IEC 61851-22:2001	<i>Electric vehicle conductive charging system - Part 22: AC electric vehicle charging station.</i> Gives the requirements for a.c. electric vehicle charging stations for conductive connection to an electric vehicle, with a.c. supply voltages according to IEC 60038 up to 690 V.
SANS 62053-61:2014/ IEC 62053-61:1998	<i>Electricity metering equipment (a.c.) - Particular requirements - Part 61: Power consumption and voltage requirements.</i> Applies only to a new manufacture measuring more than one type of electric energy and meters integrating additional functions which are not in the scope of the IEC 60687, IEC 61036, IEC 61268 standards and the standard in preparation for static apparent energy meters, these additional functions, all related to electric energy metering are, for instance, maximum demand indicator, time switches.
SANS 62056-6-1:2014/ IEC 62056-6-1:2011	<i>Electricity metering data exchange - The DLMS/COSEM suite - Part 6-1: Object Identification System (OBIS).</i> Specifies the overall structure of the OBject Identification System (OBIS) and the mapping of all commonly used data items in metering equipment to their identification codes. Provides a unique identifier for all data within the metering equipment, including not only measurement values, but also abstract values used for configuration or obtaining information about the behaviour of the metering equipment.

Standard No. and year	Title, scope and purport
SANS 62196-1:2014/ IEC 62196-1:2011	<i>Plugs, socket-outlets, vehicle connectors and vehicle inlets - Conductive charging of electric vehicles - Part 1: General requirements.</i> Applicable to plugs, socket-outlets, connectors, inlets and cable assemblies for electric vehicles (EV), herein referred to as accessories, intended for use in conductive charging systems which incorporate control means, with a rated operating voltage not exceeding 690 V a.c. 50 Hz to 60 Hz at a rated current not exceeding 250 A and 1 500 V d.c. at a rated current not exceeding 400 A.
SANS 62196-2:2014/ IEC 62196-2:2011	<i>Plugs, socket-outlets, vehicle connectors and vehicle inlets - Conductive charging of electric vehicles - Part 2: Dimensional compatibility and interchangeability requirements for a.c. pin and contact-tube accessories.</i> Applies to plugs, socket-outlets, vehicle connectors and vehicle inlets with pins and contact-tubes of standardized configurations, herein referred to as accessories. They have a nominal rated operating voltage not exceeding 500 V a.c., 50 to 60 Hz, and a rated current not exceeding 63 A three-phase or 70 A single phase, for use in conductive charging of electric vehicles.
SANS 62271-4:2014/ IEC 62271-4:2013	<i>High-voltage switchgear and controlgear - Part 4: Handling procedures for sulphur hexafluoride (SF<sub>6</sub>) and its mixtures.</i> Applies to the procedures for handling of SF <sub>6</sub> during installation, commissioning, normal and abnormal operations, disposal at the end-of-life of high-voltage switchgear and controlgear.
SANS 62271-112:2014/ IEC 62271-112:2013	<i>High-voltage switchgear and controlgear - Part 112: Alternating current high-speed earthing switches for secondary arc extinction on transmission lines.</i> Applies to a.c. high-speed earthing switches designed for indoor and outdoor installation and for operation at service frequencies of 50 Hz and 60 Hz on systems with voltages of 550 kV and above.
SANS 62282-3-201:2014/ IEC 62282-3-201:2013	<i>Fuel cell technologies - Part 3-201: Stationary fuel cell power systems - Performance test methods for small fuel cell power systems.</i> Provides test methods for the electric/thermal and environmental performance of small stationary fuel cell power systems. Covers fuel cell power systems whose primary purpose is the production of electric power and whose secondary purpose may be the utilization of by-product heat.
SANS 62386-201:2014/ IEC 62386-201:2009	<i>Digital addressable lighting interface Part 201: Particular requirements for control gear - Fluorescent lamps (device type 0).</i> Specifies a protocol and methods of test for the control by digital signals of electronic control gear for use on a.c. or d.c. supplies, associated with fluorescent lamps.
SANS 62606:2014/ IEC 62606:2013	<i>General requirements for arc fault detection devices.</i> Applies to arc fault detection devices (AFDDs) for household and similar uses in a.c. circuits.
SATR 14047:2014/ ISO/TR 14047:2012	<i>Environmental management - Life cycle assessment - Illustrative examples on how to apply ISO 14044 to impact assessment situations.</i> Provides examples to illustrate current practice of life cycle impact assessment according to ISO 14044:2006 (published in South Africa as an identical adoption under the designation SANS 14044). These examples are only a sample of all possible examples that could satisfy the provisions of ISO 14044. They offer "a way" or "ways" rather than the "unique way" of applying ISO 14044. They reflect the key elements of the life cycle impact assessment (LCIA) phase of the LCA.
SATR 61508-0:2014/ IEC/TR 61508-0:2010	<i>Functional safety of electrical/electronic/programmable electronic safety-related systems - Part 0: Functional safety and IEC 61508.</i> Introduces the concept of functional safety and gives an overview of the IEC 61508 series.
SATR 61850-90-4:2014/ IEC/TR 61850-90-4:2013	<i>Communication networks and systems for power utility automation - Part 90-4: Network engineering guidelines.</i> Is intended for an audience familiar with network communication and IEC 61850-based systems and particularly for substation protection and control equipment vendors, network equipment vendors and system integrators.
SATS 14033:2014/ ISO/IEC TS 14033:2012	<i>Environmental management - Quantitative environmental information - Guidelines and examples.</i> Supports the application of standards and reports on environmental management. Provides guidelines on how to acquire quantitative environmental information and data and implement methodology. Gives guidelines to organizations on general principles, policy, strategy and activities necessary to obtain quantitative environmental information for internal and/or external purposes.
SATS 14067:2014/ ISO/TS 14067:2013	<i>Greenhouse gases - Carbon footprint of products - Requirements and guidelines for quantification and communication.</i> Specifies principles, requirements and guidelines for the quantification and communication of the carbon footprint of a product, based on international standards on life cycle assessment for quantification and on environmental labels and declarations for communication.
SATS 22002-1:2014/ ISO/TS 22002-1:2009	<i>Prerequisite programmes on food safety - Part 1: Food manufacturing.</i> Specifies the requirements for establishing, implementing and maintaining prerequisite programmes (PRPs) to assist in controlling food safety hazards. Applies to all organizations, regardless of size and complexity, that are involved in food manufacturing and that wish to implement PRP.
SATS 22002-2:2014/ ISO/TS 22002-2:2013	<i>Prerequisite programmes on food safety - Part 2: Catering.</i> Specifies the requirements for the design, implementation, and maintenance of prerequisite programmes (PRPs) to assist in controlling food safety hazards in catering. Is applicable to all organizations which are involved in the processing, preparation, distribution, transport and serving of food and meals and wish to implement PRPs in accordance with the requirements specified in ISO 22002:2005,7.2.

## 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 17:2014 (Ed. 1.1)	<i>Glass and plastics in furniture. Consolidated edition incorporating amendment No. 1.</i> Amended to update referenced standards, and to add requirements for mirrors as glazing material.
SANS 148-1:2014/ISO 148-1:2009 (SANS 148-1:2007)	<i>Metallic materials - Charpy pendulum impact test - Part 1: Test method.</i> Specifies the Charpy pendulum impact (V-notch and U-notch) test method for determining the energy absorbed in an impact test of metallic materials. Does not apply to instrumented impact testing, which is specified in ISO 14556.
SANS 329:2014 (SANS 329:2008)	<i>Industrial thermoprocessing equipment - Safety requirements for combustion and fuel-handling systems.</i> Specifies the lists of hazards, the safety requirements and associated measures, as well as the user instructions relating to fuel-handling and combustion equipment, and its design, ordering, construction and use.
SANS 342:2014 (SANS 342:2006)	<i>Automotive fuel - Requirements and test methods for diesel.</i> Specifies the grades of automotive diesel fuel containing up to a volume fraction of 5 % of automotive biodiesel in accordance with SANS 1935, and suitable for use in compression-ignition engines, including high-speed engines.
SANS 507-1:2014/NRS 034-1:2007 (Ed. 1.1)	<i>Electricity distribution - Guidelines for the provision of electricity distribution networks in residential areas - Part 1: Planning and design of distribution networks. Consolidated edition incorporating amendment No. 1.</i> Amended to update referenced standards, and to move reference to legislation and national organizations to the foreword.
SANS 529:2014 (Ed. 3.1)	<i>Heat-resisting wiring cables. Consolidated edition incorporating amendment No. 1.</i> Amended to update referenced standards.
SANS 561:2014/ISO 10133:2012 (SANS 561:2008)	<i>Small craft - Electrical systems - Extra-low-voltage d.c. installations.</i> Covers the requirements for the design, construction and installation of extra-low-voltage direct current (d.c.) electrical systems that operate at nominal potentials of 50 V d.c. or less on small craft of hull length up to 24 m. Does not cover engine wiring as supplied by the engine manufacturer.
SANS 597:2014 (SANS 597:2008)	<i>Sterilized compound sodium lactate intravenous infusion (Ringer-lactate solution for injection).</i> Covers chemical and biological requirements for a solution of sodium chloride, potassium chloride, calcium chloride and sodium lactate in water for injections that have been dispensed into suitable containers, sealed and sterilized.
SANS 681:2014 (Ed. 3.3)	<i>Undercoats for paints. Consolidated edition incorporating amendment No. 3.</i> Amended to update referenced standards and add application properties for dilution stability of paints for brush application.
SANS 892:2014 (Ed. 3.4)	<i>General purpose detergent (beads, granules and powders). Consolidated edition incorporating amendment No. 4.</i> Amended to update referenced standards.
SANS 950:2014 (Ed. 2.3)	<i>Unplasticized polyvinyl chloride rigid conduit and fittings for use in electrical installations. Consolidated edition incorporating amendment No. 3.</i> Amended to add a tolerance on the depth L1 in table 2 (Dimensions of fittings) and modify figure 1 (Typical configurations of circular boxes).
SANS 1019:2014 (Ed. 2.6)	<i>Standard voltages, currents and insulation levels for electricity supply. Consolidated edition incorporating amendment No. 6.</i> Amended to add the definition of "impulse" and update applicable standards.
SANS 1085:2014 (Ed. 3.4)	<i>Wall outlet boxes for the enclosure of electrical accessories. Consolidated edition incorporating amendment No. 4.</i> Amended to change the wall thickness from 2 mm to 3 mm in the table on the dimensions of wall outlet boxes.
SANS 1150:2014 (Ed. 2.4)	<i>Glass-reinforced polyester (GRP) laminated sheets (profiled or flat). Consolidated edition incorporating amendment No. 4.</i> Amended to update a reference to exposure stations in the test for resistance to weathering, to correct a cross-reference and to update the number of a referenced standard.
SANS 1164:2014 (Ed. 1.1)	<i>Automotive fuels - Requirements and specifications for fuel ethanol as a blending component with petrol. Consolidated edition incorporating amendment No. 1.</i> Amended to update referenced standards.
SANS 1227:2014 (Ed. 1.5)	<i>Textured wall coatings, emulsion base, for interior and exterior use. Consolidated edition incorporating amendment No. 4.</i> Amended to update referenced standards, to move reference to legislation to the foreword, and to delete a reference to the standardization mark.
SANS 1231:2014 (SABS 1231:1993)	<i>Sterilized half-concentrated Darrow's solution with dextrose (glucose) for intravenous infusion.</i> Covers chemical and biological requirements for a solution of sodium lactate, potassium chloride, sodium chloride and anhydrous dextrose (glucose) in water for injections that have been dispensed into suitable containers, sealed and sterilized. It also specifies the required marking.
SANS 1232:2014 (SABS 1232:1993)	<i>Sterilized sodium bicarbonate intravenous infusion.</i> Covers chemical and biological requirements for a solution of sodium bicarbonate of various concentrations in water for injections that have been dispensed into suitable containers, sealed and sterilized. It also specifies the required marking.
SANS 1233:2014 (SABS 1233:1993)	<i>Sterilized balanced solution of electrolytes for intravenous infusion.</i> Covers chemical and biological requirements for a solution of sodium chloride, potassium chloride, sodium bicarbonate and magnesium chloride in water for injections that have been dispensed into suitable containers, sealed and sterilized. It also specifies the required marking.
SANS 1274:2014 (Ed. 2.1)	<i>Coatings applied by the powder-coating process. Consolidated edition incorporating amendment No. 1.</i> Amended to update referenced standards, the table on maximum permissible delta E values (table 8) and the table on specular gloss categories (table 9).
SANS 1281:2014 (Ed. 1.3)	<i>Rinse aid for use in dishwashing machines. Consolidated edition incorporating amendment No. 3.</i> Amended to remove reference to legislation in the text to the foreword, and to update referenced standards.
SANS 1288:2014 (Ed. 3.4)	<i>Preservative-treated timber. Consolidated edition incorporating amendment No. 4.</i> Amended to change the moisture content requirements of eucalyptus poles and round timber before preservative treatment with class W preservatives and to change the marking requirements.

Standard No. and year	Title, scope and purport
SANS 1319:2014 (Ed. 3.1)	<i>Zinc phosphate primer for steel. Consolidated edition incorporating amendment No. 1.</i> Amended to update referenced standards.
SANS 1387-2:2014 (SANS 1387-2:2009)	<i>Woven cotton and similar apparel fabrics - Part 2: Polyester-and-cotton workwear fabrics.</i> Covers the specific requirements for five types of polyester and cotton fabric suitable for use in the manufacture of light-weight suits, workwear garments and uniforms, and for one type (type PC 64L) suitable for use as liners in the manufacture of sleeping bags.
SANS 1409:2014 (Ed. 1.5)	<i>Outlet sockets and probes for medical (gas and vacuum) services used in hospitals. Consolidated edition incorporating amendment No. 5.</i> Amended to add a note to figure 1 (Fixing dimensions for sockets), modify a tolerance in table 2 (Dimensions of probes and outlet sockets), add probes and outlet sockets shapes and include a reference standard in the bibliography.
SANS 1411-2:2014 (Ed. 2.4)	<i>Materials of insulated electric cables and flexible cords - Part 2: Polyvinyl chloride (PVC). Consolidated edition incorporating amendment No. 4.</i> Amended to update referenced standards.
SANS 1411-3:2014 (Ed. 2.3)	<i>Materials of insulated electric cables and flexible cords - Part 3: Elastomers. Consolidated edition incorporating amendment No. 3.</i> Amended to update referenced standards.
SANS 1411-4:2014 (Ed. 2.4)	<i>Materials of insulated electric cables and flexible cords - Part 4: Cross-linked polyethylene (XLPE). Consolidated edition incorporating amendment No. 4.</i> Amended to update referenced standards.
SANS 1411-7:2014 (Ed. 2.2)	<i>Materials of insulated electric cables and flexible cords - Part 7: Polyethylene (PE). Consolidated edition incorporating amendment No. 2.</i> Amended to update referenced standards.
SANS 1418-2:2014 (Ed. 1.6)	<i>Aerial bundled conductor systems - Part 2: Assembled insulated conductor bundles. Consolidated edition incorporating amendment No. 6.</i> Amended to update referenced standards.
SANS 1446:2014 (Ed. 1.3)	<i>Glass rovings. Consolidated edition incorporating amendment No. 3.</i> Amended to delete a footnote that refers to the Rubber and Plastics Division of the South African Bureau of Standards.
SANS 1448:2014 (Ed. 2.1)	<i>Wax emulsion for coating citrus fruit. Consolidated edition incorporating amendment No. 1.</i> Amended to update referenced standards.
SANS 1451-3:2014 (Ed. 1.3)	<i>Hearing protectors - Part 3: Ear-muffs attached to an industrial safety helmet. Consolidated edition incorporating amendment No. 3.</i> Amended to update a referenced standard.
SANS 1489-1:2014 (Ed. 1.1)	<i>Electrical connectors in group I and group II hazardous areas - Part 1: General requirements for group I hazardous areas.</i> Amended to change the table on insulating materials (table 24).
SANS 1515-1:2014/ (SANS 1515-1:2006)	<i>Gas measuring equipment primarily for use in mines - Part 1: Battery-operated portable, flammable gas measuring instruments and warning devices.</i> Covers requirements for the design, construction, safety and performance of hand-held and portable battery-powered instruments and devices for the routine detection and measurement of flammable gases in air by electrical and electronic means and that are intended primarily for use in mines. Covers only the detection of methane and hydrogen and mixtures of both. Does not cover the requirements for calibration kits.
SANS 1519-1:2014 (Ed. 2.3)	<i>Road signs - Part 1: Retro-reflective sheeting material. Consolidated edition incorporating amendment No. 3.</i> Amended to update referenced standards, move reference to legislation to the foreword, modify the definition of "specimen" and rezone the coordinates of yellow by removing classes I and II together with their coordinates and reference to classes III, IV A and IV B in the table on chromaticity co-ordinates and weathered materials (table 2) and in the chromaticity diagram (figure 2).
SANS 1545-1:2014 (Ed. 3.4)	<i>Safety rules for the construction and installation of lifts - Part 1: Electric lifts. Consolidated edition incorporating amendment No. 4.</i> Amended to update the annex on comprehensive report for electric lifts (annex B).
SANS 1555:2014 (Ed. 2.2)	<i>Roadworks delineators. Consolidated edition incorporating amendment No. 2.</i> Amended to update the requirements for retro-reflective sheeting.
SANS 1567:2014 (Ed. 2.2)	<i>Portable rechargeable fire extinguishers - CO<sub>2</sub> type extinguishers. Consolidated edition incorporating amendment No. 2.</i> Amended to update referenced standards.
SANS 1602:2014 (Ed. 1.2)	<i>Electrodeposited coatings of copper and copper alloys. Consolidated edition incorporating amendment No. 2.</i> Amended to update referenced standards.
SANS 1643:2014 (Ed. 1.3)	<i>Dried yeast for use in wet sorghum beer brewing. Consolidated edition incorporating amendment No. 3.</i> Amended to update referenced standards and to move reference to legislation to the foreword.
SANS 1796:2014 (Ed. 3.1)	<i>Application of durable organic powder coatings for architectural aluminium. Consolidated edition incorporating amendment No. 1.</i> Amended to move references to a national system to the foreword, to update referenced standards, to incorporate requirements for class 2 and class 3 coatings, to modify the requirements for coating defects, to update the table on specular gloss categories, to correct cross references, to update the table on maximum allowable delta E values, to modify the procedure for resistance to acetic acid and salt fog, and resistance to artificial weathering, to modify the requirements for testing and to delete reference to the SABS (see table G.1), and to clarify a term in the annex on the typical proprietary non-chrome pre-treatment process.
SANS 1850:2014 (SANS 1850:2003)	<i>The design and manufacture of commercial kitchen extraction/ventilation systems.</i> Specifies the requirements for the design, manufacture, installation and inspection (including the safety requirements) for the extraction and ventilation systems of commercial kitchens.
SANS 1913:2014 (Ed. 2.1)	<i>Kerosene for domestic heating and illuminating. Consolidated edition incorporating amendment No. 1.</i> Amended to update referenced standards, and to move reference to South African legislation in the text to the foreword.



Standard No. and year	Title, scope and purport
SANS 2450:2014/ ISO 2450:2008 (SANS 2450:2005)	<i>Cream - Determination of fat content - Gravimetric method (Reference method).</i> Specifies the reference method for the determination of the fat content of raw, processed and sour cream in which no appreciable separation or breakdown of fat, due to lipolysis, has occurred. Does not apply to sour creams with starch or other thickening agents.
SANS 3001-AG1:2014 (Ed 1.2)	<i>Civil engineering test methods - Part AG1: Particle size analysis of aggregates by sieving. Consolidated edition incorporating amendment No. 2.</i> Amended to change the aperture size of a sieve in the clause on apparatus and in the tables on typical sigma values and conversion, to change a maximum particle size in the table on size of test sample, and to correct the table on typical E values.
SANS 3001-AG4:2014 (Ed 1.1)	<i>Civil engineering test methods - Part AG4: Determination of the flakiness index of coarse aggregate. Consolidated edition incorporating amendment No. 1.</i> Amended to update the tables on slot dimensions, size and mass of fractions, and sigma values for nominal sizes.
SANS 3001-BT10:2014 (Ed 1.1)	<i>Civil engineering test methods - Part BT10: Ball penetration test for the design of surfacing seals. Consolidated edition incorporating amendment No. 1.</i> Amended to update the note in the clause on penetration testing, to update the clauses on calculations and the test report, and to update the annex on example of the calculation procedure.
SANS 3382-2:2014/ ISO 3382-2:2008	<i>Acoustics - Measurement of room acoustic parameters - Part 2: Reverberation time in ordinary rooms. ISO corrigendum No. 1.</i> Corrected to replace a figure (figure A.2) which shows the curves that represent survey, engineering and precision methods.
SANS 4001-BT1:2014 (Ed. 1.2)	<i>Civil engineering specifications - Part BT1: Penetration grade bitumen. Consolidated edition incorporating amendment No. 2.</i> Amended to change the title, to include requirements for two additional penetration grades, and to update a referenced standard.
SANS 5483:2014/ (Ed. 2.1)	<i>Non-fibrous material content of textiles (petroleum ether and water extraction method). Consolidated edition incorporating amendment No. 2.</i> Amended to delete a cited standard from the foreword and the bibliography.
SANS 6405-1:2013/ ISO 6405:2004	<i>Earth-moving machinery - Symbols for operator controls and other displays - Part 1: Common symbols. ISO amendment No. 1.</i> Amended to include additional engine symbols.
SANS 9227:2014/ ISO 9227:2012 (SANS 9227:2007)	<i>Corrosion tests in artificial atmospheres - Salt spray tests.</i> Specifies the apparatus, the reagents and the procedure to be used in conducting the neutral salt spray (NSS), acetic acid salt spray (AASS) and copper-accelerated acetic acid salt spray (CASS) tests for assessment of the corrosion resistance of metallic materials, with or without permanent or temporary corrosion protection.
SANS 10087-7:2014 (SANS 10087-7:2011)	<i>The handling, storage, distribution and maintenance of liquefied petroleum gas in domestic, commercial, and industrial installations - Part 7: Storage and filling premises for refillable liquefied petroleum gas (LPG) containers of gas capacity not exceeding 19 kg and the storage of individual gas containers not exceeding 48 kg.</i> Specifies the minimum requirements for the gas supply, its location and the installation of, and operations at, filling premises for the filling of liquefied petroleum gas (LPG) containers of gas capacity not exceeding 19 kg and the storage of individual gas containers not exceeding 48 kg.
SANS 10123:2014 (Ed. 1.3)	<i>The control of undesirable static electricity. Consolidated edition incorporating amendment No. 3.</i> Amended to update referenced standards.
SANS 10142-2:2014 (Ed. 1.1)	<i>The wiring of premises - Part 2: Medium-voltage installations above 1 kV a.c. not exceeding 22 kV a.c. and up to and including 3 MVA installed capacity. Consolidated edition incorporating amendment No. 1.</i> Amended to change the power rating 3 000 kW to 3 MVA, to update referenced standards and applicable standards (in table 1), to delete definitions and re-number the remaining definitions accordingly, to delete tables, to change the requirements for testing of transformers, testing of batteries, type test reports and installed capacity levels, and to merge requirements in the medium-voltage installation safety report.
SANS 10156:2014 (Ed. 1.2)	<i>The handling of chilled and frozen foods. Consolidated edition incorporating amendment No. 2.</i> Amended to update referenced standards.
SANS 10183-2:2014 (SANS 10183-2:2009)	<i>Adhesives for wood - Part 2: Requirements for structural applications.</i> Specifies requirements for adhesives to be used in load-bearing structures.
SANS 10322:2014 (Ed. 2.1)	<i>Surface finishing of architectural aluminium. Consolidated edition incorporating amendment No. 1.</i> Amended to refer to the decorative function of a surface in a note, to change requirements for the expected life of exterior finishes (in table 1), to exclude sealed surfaces from coating applications, to change a requirement for powder application and the thickness of polyester films, and to indicate another form of fluorocarbon-based powder coating.
SANS 10405:2014 (SANS 10405:2009)	<i>Transport of dangerous goods by rail - Operational and design requirements and emergency preparedness.</i> Specifies the requirements for the safe transport of dangerous goods by rail in terms of: operational requirements; design requirements; and emergency preparedness.
SANS 11591:2014 ISO 11591:2011 (SANS 11591:2008)	<i>Small craft, engine-driven - Field of vision from helm position.</i> Specifies requirements for the field of vision from the helm position, forward and astern, in engine-driven small craft of up to 24 m length of hull.
SANS 12402-2:2007/ ISO 12402-2:2006	<i>Personal flotation devices - Part 2: Lifejackets, performance level 275 - Safety requirements. ISO amendment No. 1.</i> Amended to update a referenced standard, to modify general requirements, the requirements for inflatable buoyancy chambers, the requirements for inherently buoyant material, and the requirements for strength, and to update the information on the lifejacket.

Standard No. and year	Title, scope and purport
SANS 12402-7:2007/ ISO 12402-7:2006	<i>Personal flotation devices - Part 7: Materials and components - Safety requirements and test methods. ISO amendment No. 1.</i> Amended to update normative references, modify the requirements for temperature cycling, performance and colour, add a NOTE under the subclause on accelerated weathering, update table on fabric (table 2), delete a subclause and renumber a subclause accordingly, replace table 3 (Chromaticity coordinates x and y and luminance factor $\beta$ for yellow, orange and red non-fluorescent colours of lifejacket material), table 4 (Chromaticity coordinates x and y and luminance factor $\beta$ for yellow, yellow-orange, orange, orange-red and red fluorescent colours of lifejacket material), table 8 (Zippers), table 9 (Webbing closures and adjusters), table 10 (Lacing closures and adjusters), table 12 (Foam flotation material), table 13 (Inflation chamber), table 15 (Fabric tests for knitted fabric laminated foam flotation material having fabric on both sides), table 16 (Fabric tests for knitted fabric laminated foam flotation material having fabric on one side), table 17 (Automatic inflation systems), table 18 (Manual inflation systems), table 19 (Oral inflation systems), and table 20 (Over-pressure relief valve systems), and change the requirements for thermal stability of buoyancy material and for the test method for the compressibility of inherently buoyant material.
SANS 12402-8:2007/ ISO 12402-8:2006	<i>Personal flotation devices - Part 8: Accessories - Safety requirements and test methods. ISO amendment No. 1.</i> Amended to delete footnotes and renumber footnotes accordingly, add a new normative reference, modify the definition of "emergency light", update a requirement for specifications and test methods, delete two subclauses and renumber subclauses accordingly, change the requirements for buddy lines, include the year of publication of a referenced standard, and add a new subclause on emergency lights.
SANS 12402-9:2007/ ISO 12402-9:2006	<i>Personal flotation devices - Part 9: Test methods. ISO amendment No. 1.</i> Amended to update normative references, delete footnote 1 and renumber footnote 2 accordingly, modify the general information on test methods, change the requirements for sampling, add a new subclause and renumber the current clause, subsequent subclauses and existing tables accordingly, modify a requirement for apparatus, the lifting loop test, boarding test, and for tests using child manikins, add information on procedure, the horizontal load test, and figure 1 (Test tummy), modify the requirement for the temperature cycling test, change a requirement for the over-pressure test and for the test of resistance to burning, delete the subclause on air retention test, delete footnote 3, modify requirements for measurement of buoyancy of the whole device and for the inflation test, add a requirement for human subject performance tests, replace the notes in table 1 (Adult test subjects) and table 2 (Child test subjects) with new information, modify requirements for the self-righting and stability test, add a new subclause on floating attitude, modify a procedure for mouth freeboard, replace figure 15 (Mouth freeboard and floatation attitude), modify a requirement for the construction and assembly of the device, modify table B.2 (Parts, quantity and assembly), and table B.3 (Foam insert buoyancy specifications), replace table B.4 with a new table (List of dimensions in figures B.2 to B.14), replace figure B.5 (Outer and inside cover, collar), replace the title and the relevant key to figure B.12 (Attachments to front and back cover (dimensions on pattern, before sewing), replace figure B.13 (Attachments to inside cover (dimensions on pattern, before sewing), and figure B.14 (Attachments to outer and inside collar cover (dimensions on pattern, before sewing), and add a new table on list of dimensions shown in figures B.16 and B.17 and the relevant figures.
SANS 13253:2014/ ISO 13253:2011 (SANS 13253:2003)	<i>Ducted air-conditioners and air-to-air heat pumps - Testing and rating for performance.</i> Specifies the standard conditions for capacity and efficiency ratings of ducted, air-cooled air-conditioners and ducted air-to-air heat pumps. Applies to the test methods for determining the capacity and efficiency ratings. Includes residential, commercial, and industrial single-package and split-system air-conditioners and heat pumps are included. Shall be factory-made equipment (taken to mean ducted air-conditioners and/or ducted heat pumps) and electrically driven and shall use mechanical compression.
SANS 14907-1:2014/ ISO/TS 14907-1:2010 (SANS 14907-1:2007)	<i>Road transport and traffic telematics - Electronic fee collection - Test procedures for user and fixed equipment - Part 1: Description of test procedures.</i> Specifies the test procedures of EFC road-side equipment (RSE) and on-board equipment (OBE) with regard to the conformance to standards and requirements for type approval and acceptance testing which is within the realm of EFC application specifically.
SANS 14907-2:2014/ ISO/TS 14907-2:2011 (SANS 14907-1:2007)	<i>Electronic fee collection - Test procedures for user and fixed equipment - Part 2: Conformance test for the onboard unit application interface.</i> Describes tests that verify on-board unit (OBU) conformance of implementations of functions and data structures, as defined in the implementation conformance statement based on ISO 14906:2011, for electronic fee collection (EFC) applications.
SANS 15189:2014/ ISO 15189:2012 (SANS 15189:2009)	<i>Medical laboratories - Particular requirements for quality and competence.</i> Specifies requirements for quality and competence in medical laboratories.
SANS 19117:2013/ ISO 19117:2012 (SANS 19117:2006)	<i>Geographic information - Portrayal.</i> Specifies a conceptual schema for describing symbols, portrayal functions that map geospatial features to symbols, and the collection of symbols and portrayal functions into portrayal catalogues.
SANS 19118:2014/ ISO 19118:2011 (SANS 19118:2006)	<i>Geographic information - Encoding.</i> Specifies the requirements for defining encoding rules for use for the interchange of data that conform to the geographic information in the set of International Standards known as the ISO 19100 series. Specifies requirements for creating encoding rules based on UML schemas, requirements for creating encoding services, and requirements for XML-based encoding rules for neutral interchange of data. Does not specify any digital media, does not define any transfer services or transfer protocols, nor does it specify how to encode inline large images.
SANS 19785-1:2007/ ISO/IEC 19785-1:2006	<i>Information technology - Common Biometric Exchange Formats Framework - Part 1: Data element specification. ISO amendment No. 1.</i> Amended to include support for additional data elements.

Standard No. and year	Title, scope and purport
SANS 19790:2014/ ISO/IEC 19790:2012 (SANS 19790:2009)	<i>Information technology - Security techniques - Security requirements for cryptographic modules.</i> Specifies the security requirements for a cryptographic module utilised within a security system protecting sensitive information in computer and telecommunication systems and defines four security levels for cryptographic modules to provide for a wide spectrum of data sensitivity (e.g. low value administrative data, million dollar funds transfers, life protecting data, personal identity information, and sensitive information used by government) and a diversity of application environments (e.g. a guarded facility, an office, removable media, and a completely unprotected location).
SANS 19794-1:2014/ ISO/IEC 19794-1:2011 (SANS 19794-1:2007)	<i>Information technology - Biometric data interchange formats - Part 1: Framework.</i> Describes the general aspects and requirements for defining biometric data interchange formats.
SANS 19794-1:2014/ ISO/IEC 19794-1:2011 (SANS 19794-1:2007)	<i>Information technology - Biometric data interchange formats - Part 1: Framework. ISO amendment No. 1.</i> Amended to include conformance testing methodology so that components of biometric systems can be substituted with other components from different vendors with the minimum effort.
SANS 19794-2:2014/ ISO/IEC 19794-2:2011 (SANS 19794-2:2007)	<i>Information technology - Biometric data interchange formats - Part 2: Finger minutiae data.</i> Specifies a concept and data formats for the representation of fingerprints using the fundamental notion of minutiae. Contains definitions of relevant terms, a description of how minutiae are to be determined, data formats for containing the data for both general use and for use with cards, and conformance information. Provides guidelines and values for comparing and decision parameters.
SANS 20000-2:2014/ ISO/IEC 20000-2:2012 (SANS 20000-2:2006)	<i>Information technology - Service management - Part 2: Guidance on the application of service management systems.</i> Provides guidance on the application of an SMS based on ISO/IEC 20000-1 (published in South Africa as an identical adoption under the designation SANS 20000-1). Provides examples and suggestions to enable organizations to interpret and apply ISO/IEC 20000-1, including references to other parts of ISO/IEC 20000 and other relevant standards. Is independent of specific best practice frameworks and service providers can apply a combination of generally accepted guidance and their own techniques.
SANS 20344:2014/ ISO 20344:2011 (SANS 20344:2008)	<i>Personal protective equipment - Test methods for footwear.</i> Specifies methods for testing footwear designed as personal protective equipment.
SANS 20345:2014/ ISO 20345:2011 (SANS 20345:2008)	<i>Personal protective equipment - Safety footwear.</i> Specifies basic and additional (optional) requirements for safety footwear used for general purpose. Includes, for example, mechanical risks, slip resistance, thermal risks, and ergonomic behaviour.
SANS 20347:2014/ ISO 20347:2012 (SANS 20347:2010)	<i>Personal protective equipment - Occupational footwear.</i> Specifies basic and additional (optional) requirements for occupational footwear that is not exposed to any mechanical risks (impact and compression).
SANS 27000:2014/ ISO/IEC 27000:2012 (SANS 27000:2009)	<i>Information technology - Security techniques - Information security management systems - Overview and vocabulary.</i> Describes the overview and the vocabulary of information security management systems, and defines related terms and definitions.
SANS 27002:2014/ ISO/IEC 27002:2013 (SANS 27002:2008)	<i>Information technology - Security techniques - Code of practice for information security controls.</i> Gives guidelines for organizational information security standards and information security management practices including the selection, implementation and management of controls taking into consideration the organization's information security risk environment(s).
SANS 50196-3:2006/ EN 196-3:2005	<i>Methods of testing cement - Part 3: Determination of setting times and soundness. EN amendment No. 1.</i> Amended to include an alternative method for testing the setting times of slow setting cements.
SANS 50196-5:2014/ EN 196-5:2011 (SANS 50196-5:2009)	<i>Methods of testing cement - Part 5: Pozzolanicity test for pozzolanic cement.</i> Specifies the method of measuring the pozzolanicity of pozzolanic cements.
SANS 50196-6:2014/ EN 196-6:2010 (SANS 50196-6:1989)	<i>Methods of testing cement - Part 6: Determination of fineness.</i> Describes three methods of determining the fineness of cement.
SANS 50450-1:2014/ EN 450-1:2012 (SANS 50450-1:2011)	<i>Fly ash for concrete - Part 1: Definition, specifications and conformity criteria.</i> Specifies requirements for the chemical and physical properties as well as quality control procedures for siliceous fly ash for use as a type II addition for production of concrete conforming to EN 206-1.
SANS 50771-4:2014/ EN 771-4:2011 (SANS 50771-4:2007)	<i>Specification for masonry units - Part 4: Autoclaved aerated concrete masonry units.</i> Specifies the characteristics and performance requirements of autoclaved aerated concrete (AAC) masonry units for which the main intended uses are types of load bearing and non-load bearing applications in all forms of walling.
SANS 60076-3:2014/ IEC 60076-3:2013 (SANS 60076-3:2000)	<i>Power transformers - Part 3: Insulation levels, dielectric tests and external clearances in air.</i> Applies to power transformers as defined by and in the scope of IEC 60076-1 (published in South Africa as an identical adoption under the designation SANS 10076-1).
SANS 60076-14:2014/ IEC 60076-14:2013 (SANS 60076-14:2009)	<i>Power transformers - Part 14: Liquid-immersed power transformers using high-temperature insulation materials.</i> Applies to liquid-immersed power transformers employing either high-temperature insulation or combinations of high-temperature and conventional insulation, operating at temperatures above conventional limits.

Standard No. and year	Title, scope and purport
SANS 60099-5:2014/ IEC 60099-5:2013 (SANS 60099-5:2007)	<i>Surge arresters - Part 5: Selection and application recommendations.</i> Provides information, guidance and recommendations for the selection and application of surge arresters to be used in three-phase systems with nominal voltages above 1 kV. Applies to gapless metal-oxide surge arresters, surge arresters that contain both series and parallel gapped structure and metal-oxide surge arresters with external series gap for overhead transmission and distribution lines.
SANS 60146-1-2:2014/ IEC/TR 60146-1-2:2011 (SANS 60146-1-2:1991)	<i>Semiconductor convertors - General requirements and line commutated convertors - Part 1-2: Application guide.</i> Gives guidance on variations to the specifications given in IEC 60146-1-1:2009 to enable the specification to be extended in a controlled form for special cases. Background information is also given on technical points which should facilitate the use of IEC 60146-1-1:2009.
SANS 60269-3:2013/ IEC 60269-3:2013	<i>Low-voltage fuses - Part 3: Supplementary requirements for fuses for use by unskilled persons (fuses mainly for household and similar applications) - Examples of standardized systems of fuses A to F. IEC corrigendum 1 to IEC amendment 1.</i> Changed to correct dimensions in figures of D01, D02 and D03 test dummies in figure 126. <i>IEC corrigendum 2 to IEC amendment 1.</i> Changed to correct a dimension in figure 126 (drawing DII).
SANS 60317-0-3:2014/ IEC 60317-0-3:2013 (Ed. 1.1)	<i>Specifications for particular types of winding wires - Part 0-3: General requirements - Enamelled round aluminium wire. Consolidated edition incorporating amendment No. 1.</i> Amended to update the scope, referenced standards and the terms and definitions, to modify the clause on the requirements for conductor diameters and temperature index requirements, and to delete the bibliography.
SANS 60335-2-9:2014/ IEC 60335-2-91:2012 (Ed. 4.1)	<i>Household and similar electrical appliances - Safety - Part 2-9: Particular requirements for grills, toasters and similar portable cooking appliances. Consolidated edition incorporating amendment No. 1.</i> Amended to update the scope, referenced standards, and terms and definitions, modify the requirements for marking and instructions, change the requirements for heating, add requirements for moisture resistance and leakage current and electric strength of operating temperature, induction wok hotplates and hotplates, update figure 105 (Probe for measuring surface temperatures) and figure 106 (Front view of appliance with identification of excluded areas), and to add annex R (Software evaluation).
SANS 60335-2-11:2014/ IEC 60335-2-11:2012 (Ed. 4.1)	<i>Household and similar electrical appliances - Safety - Part 2-11: Particular requirements for tumble dryers. Consolidated edition incorporating amendment No. 1.</i> Amended to add definitions and change the heading of the clause on marking and instructions, and to change requirements for exhaust temperature, CTI, stability and mechanical hazard, construction, software (annex R), and equipment protection (annex CC).
SANS 60335-2-24:2014/ IEC 60335-2-24:2012 (Ed. 5.1)	<i>Household and similar electrical appliances - Safety - Part 2-24: Particular requirements for refrigerating appliances, ice-cream appliances and ice-makers. Consolidated edition incorporating amendment No. 1.</i> Amended to update referenced standards, to change the heading of the definitions clause to read "terms and definitions", to update requirements in the clauses on marking and instructions; components; clearances, creepage distances and solid insulation, and to update requirements in the annex on non-sparking "n" electrical apparatus.
SANS 60335-2-37:2014/ IEC 60335-2-37:2011 (Ed. 3.2)	<i>Household and similar electrical appliances - Safety - Part 2-37: Particular requirements for commercial electric doughnut fryers and deep fat fryers. Consolidated edition incorporating amendment No. 2.</i> Amended to update the title and the scope to include doughnut fryers, to update definitions, to modify the requirements for marking and instructions, heating, leakage current and electric strength at operating temperature, leakage current and electric strength, abnormal operation and construction.
SANS 60335-2-51:2014/ IEC 60335-2-51:2012 (Ed. 3.2)	<i>Household and similar electrical appliances - Safety - Part 2-51: Particular requirements for stationary circulation pumps for heating and service water installations. Consolidated edition incorporating amendment No. 2.</i> Amended to add the implementation date to the foreword, and to update the scope.
SANS 60335-2-71:2014/ IEC 60335-2-71:2012 (Ed. 2.2)	<i>Household and similar electrical appliances - Safety - Part 2-71: Particular requirements for electrical heating appliances for breeding and rearing animals. Consolidated edition incorporating amendment No. 2.</i> Amended to allow for abnormal usage and to introduce a transitional period following the publication of the standard, to change the heading of the definitions clause to read "Terms and definitions", to update the requirements for marking and instructions and abnormal operation, and the bibliography.
SANS 60335-2-73:2014/ IEC 60335-2-73:2009 (Ed. 2.2)	<i>Household and similar electrical appliances - Safety - Part 2-73: Particular requirements for fixed immersion heaters. Consolidated edition incorporating amendment No. 2.</i> Amended to introduce the transitional period required following publication, update the introduction, modify the scope to exclude the safety requirements for persons (including children) whose physical, sensory or mental capabilities; or lack of experience and knowledge prevents them from using the appliance safely without supervision or instruction and add an informative reference to the bibliography.
SANS 60335-2-74:2014/ IEC 60335-2-74:2009 (Ed. 2.2)	<i>Household and similar electrical appliances - Safety - Part 2-74: Particular requirements for portable immersion heaters. Consolidated edition incorporating amendment No. 2.</i> Amended to introduce the transitional period required following publication, update the introduction, modify the scope to exclude the safety requirements for persons (including children) whose physical, sensory or mental capabilities; or lack of experience and knowledge prevents them from using the appliance safely without supervision or instruction, add a requirement for general conditions for the tests and add an informative reference to the bibliography.
SANS 60335-2-79:2014/ IEC 60335-2-79:2012 (SANS 60335-2-79:2008)	<i>Household and similar electrical appliances - Safety - Part 2-79: Particular requirements for high pressure cleaners and steam cleaners.</i> Deals with the safety of high-pressure cleaners without traction drive, intended for household and commercial indoor or outdoor use, having a rated pressure not less than 2,5 MPa and not exceeding 35 MPa. Applies to steam cleaners and those parts of hot water high pressure cleaners incorporating a steam stage which have a capacity not exceeding 100 l, a rated pressure not exceeding 2,5 MPa and a product of a capacity and a rated pressure not exceeding 5 MPa/l.

Standard No. and year	Title, scope and purport
SANS 60335-2-81:2014/ IEC 60335-2-81:2012 (Ed. 2.2)	<i>Household and similar electrical appliances - Safety Part - 2-81: Particular requirements for foot warmers and heating mats. Consolidated edition incorporating amendment No. 2.</i> Amended to add note 4 in the foreword, to add a normative reference, and to include heating elements with PTC characteristics in the standard (by adding the definition, requirements for power input and current, heating mats, microenvironment pollution degree 3, supply connection, insulation of heating elements and wiring, test requirements, and a figure (figure 101) to provide for the inclusion of the heating elements).
SANS 60335-2-89:2014/ IEC 60335-2-89:2012 (Ed. 2.1)	<i>Household and similar electrical appliances - Safety - Part 2-89: Particular requirements for commercial refrigerating appliances with an incorporated or remote refrigerant unit or compressor. Consolidated edition incorporating amendment No. 1.</i> Amended to update normative references, to change the heading of the definitions clause to "terms and definitions", to modify the requirements for general conditions for the tests, classification, marking and instructions, protection against access to live parts, heating, mechanical strength, components, and the requirements in the annex on non-sparking "n" electrical apparatus (annex BB), and to update the bibliography.
SANS 60335-2-90:2014/ IEC 60335-2-90:2010 (Ed. 3.1)	<i>Household and similar electrical appliances - Safety - Part 2-90: Particular requirements for commercial microwave ovens. Consolidated edition incorporating amendment No. 1.</i> Amended to update the introduction, modify the scope, add normative references, change the requirements for marking and instructions, and endurance, add requirements for electronic circuits and include annex on microwave ovens intended to be used on board ships (annex EE).
SANS 60598-2-24:2014/ IEC 60598-2-24:2013 (SANS 60598-2-24:1997)	<i>Luminaires - Part 2-24: Particular requirements - Luminaires with limited surface temperatures.</i> Specifies requirements for luminaires intended for use where the necessity of limited temperature on the outer surface exists, due to the risk of combustible dust accumulating on the luminaires, but where the risk of explosion in the atmosphere does not exist. The luminaires are for use with electric light sources on supply voltages not exceeding 1 000 V.
SANS 60601-1-2:2014/ IEC 60601-1-2:2007 (SANS 60601-1-2:2005)	<i>Medical electrical equipment - Part 1-2: General requirements for basic safety and essential performance - Collateral standard: Electromagnetic compatibility - Requirements and tests. IEC amendment 1.</i> Included to clarify the subclauses on ME equipment and ME systems.
SANS 60745-2-3:2014/ IEC 60745-2-3:2012 (Ed. 2.2)	<i>Hand-held motor-operated electric tools - Safety - Part 2-3: Particular requirements for grinders, polishers and disk-type sanders. Consolidated edition incorporating amendment No. 2.</i> Amended to update the scope, referenced standards, definitions, the clauses on marking and instructions, mechanical hazards, mechanical strength, to include vertical grinders to the clause on construction, and to update the bibliography.
SANS 60745-2-4:2014/ IEC 60745-2-4:2008 (Ed. 2.1)	<i>Hand-held motor-operated electric tools - Safety - Part 2-4: Particular requirements for sanders and polishers other than disk type. Consolidated edition incorporating amendment No. 1.</i> Amended to update the foreword and the scope, change the heading of the definitions clause (clause 3) to read "terms and definitions", add subclause for marking and instructions, modify subclause under endurance, replace a paragraph under mechanical strength, and construction, add new normative annexes on battery tools and battery packs (annex K) and battery tools and battery packs provided with mains connection or non-isolated sources (annex L), and update a reference under the bibliography.
SANS 60745-2-6:2014/ IEC 60745-2-6:2008 (Ed. 2.2)	<i>Hand-held motor-operated electric tools - Safety - Part 2-6: Particular requirements for hammers. Consolidated edition incorporating amendment No. 2.</i> Amended to update the table of contents, the foreword and the scope, change the heading of the definitions clause (clause 3) to read "terms and definitions", add a subclause on hammer safety warnings under clause 8 (marking and instructions), replace paragraphs under clause 20 (mechanical strength) and clause 21 (construction), and add information to annex K (battery tools and battery pack) and annex L (battery tools and battery packs provided with mains connection or non-isolated sources).
SANS 60745-2-17:2014/ IEC 60745-2-17:2010 (SANS 60745-2-17:2003)	<i>Hand-held motor-operated electric tools - Safety - Part 2-17: Particular requirements for routers and trimmers.</i> Deals with the safety of routers and trimmers for which the rated voltage is not more than 250 V for single-phase a.c. or d.c. tools, and 440 V for three-phase a.c. tools.
SANS 60751:2014/ IEC 60751:2008 (SANS 60751:1983)	<i>Industrial platinum resistance thermometers and platinum temperature sensors.</i> Specifies the requirements and temperature/resistance relationship for industrial platinum resistance temperature sensors and industrial platinum resistance thermometers.
SANS 60851-3:2014/ IEC 60851-3:2013 (Ed. 2.1)	<i>Winding wires - Test methods Part 3: Mechanical properties. Consolidated edition incorporating amendment No. 1.</i> Amended to update annex B (friction test methods) and the contents page accordingly.
SANS 60927:2014/ IEC 60927:2013 (Ed. 3.1)	<i>Auxiliaries for lamps - Starting devices (other than glow starters) - Performance requirements. Consolidated edition incorporating amendment No. 1.</i> Amended to change the definitions, marking and the endurance test.
SANS 60947-2:2014/ IEC 60947-2:2013 (Ed. 4.2)	<i>Low-voltage switchgear and controlgear - Part 2: Circuit-breakers. Consolidated edition incorporating amendment No. 2.</i> Amended to modify the scope, add definitions, add requirements on rated service short-circuit breaking capacity, product information, constructional and performance requirements, test sequence, general test conditions, and special tests, modify a NOTE in the table on selectivity categories (table 4), add requirements to annexes on co-ordination under short-circuit conditions between a circuit-breaker and another short-circuit protective device associated in the same circuit (annex A), circuit-breakers incorporating residual current protection (annex B), individual pole short-circuit test sequence (annex C), items subject to agreement between manufacturer and user (annex E), test sequence for circuit-breakers for IT systems (annex H), glossary of symbols and graphical representation of characteristics (annex K), circuit-breakers not fulfilling the requirements for overcurrent protection (annex L), and modular residual current devices (without integral current breaking device) (annex M).
SANS 60947-5-3:2014/ IEC 60947-5-3:2013 (SANS 60947-5-3:2005)	<i>Low-voltage switchgear and controlgear - Part 5-3: Control circuit devices and switching elements - Requirements for proximity devices with defined behaviour under fault conditions (PDDb).</i> Provides additional requirements to those given in IEC 60947-5-2 (published in South Africa as an identical adoption under the designation SANS 60947-5-2). Addresses the fault performance aspects of proximity devices with a defined behaviour under fault conditions (PDDb).

Standard No. and year	Title, scope and purport
SANS 60974-7:2014/ IEC 60974-7:2013 (SANS 60974-7:2006)	<i>Arc welding equipment - Part 7: Torches.</i> Specifies safety and construction requirements for torches for arc welding and allied processes.
SANS 61148:2014/ IEC 61148:2011 (SANS 61148:2005)	<i>Terminal markings for valve device stacks and assemblies and for power conversion equipment.</i> Applies to the terminal markings for the main circuits of valve device stacks and assemblies, and of integrated conversion equipment. The terminal markings refer to stacks, assemblies and equipment comprising semiconductor valve devices. Specifies a logical alphanumeric marking system for the identification of the external main terminals of the main power circuits in a stack, valve device assembly or integrated conversion equipment, which is applicable for the purpose of reference in circuit diagrams, catalogues, descriptions, information exchange and storage. In the case of stacks and assemblies, alphanumeric terminal marking systems are indicated for those converter connections that are the most important and most commonly used ones. Terminal marking systems making use of graphic symbols or identifying colours are not considered.
SANS 62271-103:2012/ IEC 62271-103:2011	<i>High-voltage switchgear and controlgear - Part 103: Switches for rated voltages above 1 kV up to and including 52 kV. IEC corrigendum 1.</i> Changed to correct voltage variation values in the subclause on characteristics of supply circuit (6.101.7.3.3) and to replace a table on general test circuit for three and single-phase capacitive switching tests (figure 5).
SANS 62271-304:2008/ IEC 62271-304:2008	<i>High-voltage switchgear and controlgear - Part 304: Design classes for indoor enclosed switchgear and controlgear for rated voltages above 1 kV up to and including 52 kV to be used in severe climatic conditions. IEC corrigendum 1.</i> Corrected to replace a figure for the power-frequency withstand voltage test with high humidity after ageing (figure 3).
SANS 300113-1:2014/ ETSI EN 300113-1:2011 (SANS 300113-1:2005)	<i>Electromagnetic compatibility and Radio spectrum Matters (ERM); Land mobile service; Radio equipment intended for the transmission of data (and/or speech) using constant or non-constant envelope modulation and having an antenna connector - Part 1: Technical characteristics and methods of measurement.</i> Covers technical requirements for radio transmitters and receivers used in stations in the Private Mobile Radio used for continuous and/or discontinuous transmission of data and/or digital speech.
SANS 300386:2014/ ETSI EN 300386:2012 (SANS 300386:2006)	<i>Electromagnetic compatibility and Radio spectrum Matters (ERM); Telecommunication network equipment; ElectroMagnetic Compatibility (EMC) requirements.</i> Covers the EMC requirements for non-radio equipment intended to be used within a public telecommunications network, which provides telecommunications between Network Termination Points (NTPs) (i.e. excluding terminal equipment beyond the NTPs).
SANS 301489-4:2014/ ETSI EN 301489-4:2009 (SANS 301489-4:2005)	<i>Electromagnetic compatibility and Radio spectrum Matters (ERM); ElectroMagnetic Compatibility (EMC) standard for radio equipment and services Part 4: Specific conditions for fixed radio links; Broadband Data Transmission System Base stations, ancillary equipment and services.</i> Covers, together with EN 301 489-1 (published in South Africa as an identical adoption under the designation SANS 301489-1), the assessment of Fixed Radio Links, Broadband Data, Transmission System Base stations and ancillary equipment in respect of ElectroMagnetic Compatibility (EMC).
SANS 301908-10:2014/ ETSI EN 301908-10:2009 (SANS 301908-10:2006)	<i>Electromagnetic compatibility and Radio spectrum Matters (ERM); Base Stations (BS), Repeaters and User Equipment (UE) for IMT-2000 Third-Generation cellular networks - Part 10: Harmonized EN for IMT-2000, FDMA/TDMA (DECT) covering essential requirements of article 3.2 of the R&amp;TTE Directive.</i> Applies to terminal equipment for IMT-FT.
SANS 302217-2-2:2014/ ETSI EN 302217-2-2:2009 (SANS 302217-2-2:2008)	<i>Fixed Radio Systems; Characteristics and requirements for point-to-point equipment and antennas - Part 2-2: Digital systems operating in frequency bands where frequency co-ordination is applied; Harmonized EN covering the essential requirements of article 3.2 of the R&amp;TTE Directive.</i> Covers, together with EN 302217-4-2 (published in South Africa as an identical adoption under designation SANS 302217-4-2), a number of systems types and antennas alternatives, for selection by administrations, operators and manufacturers dependent on desired use of radio frequency and network/market requirements.
SANS 302217-3:2014/ ETSI EN 302217-3:2013 (SANS 302217-3:2008)	<i>Fixed Radio Systems; Characteristics and requirements for point-to-point equipment and antennas - Part 3: Equipment operating in frequency bands where both frequency coordinated or uncoordinated deployment might be applied; Harmonized EN covering the essential requirements of article 3.2 of the R&amp;TTE Directive.</i> Covers the essential requirements for point to point digital fixed radio systems operating in higher frequency bands which propagation characteristics might be suitable for different simplified frequency planning rather than conventional link-by-link co-ordinated deployment.
SANS 302217-4-2:2014/ ETSI EN 302217-4-2:2010 (SANS 302217-4-2:2008)	<i>Fixed Radio Systems; Characteristics and requirements for point-to-point equipment and antennas - Part 4-2: Antennas; Harmonized EN covering essential requirements of article 3.2 of the R&amp;TTE Directive.</i> Covers, together with EN 302217-2-2 (published in South Africa as an identical adoption under designation SANS 302217-2-2), a number of system types and antennas alternatives, for selection by administrations, operators and manufacturers dependent on the desired use of radio spectrum and network/market requirements.

### 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 1508:2007	<i>Expanded polystyrene thermal insulation boards.</i>

SANS 4524-1:1985/ ISO 4524-1:1985	<i>Metallic coatings - Test methods for electrodeposited gold and gold alloy coatings - Part 1: Determination of coating thickness.</i>
SANS 4524-4:1985/ ISO 4524-4:1985	<i>Metallic coatings - Test methods for electrodeposited gold and gold alloy coatings - Part 4: Determination of gold content.</i>
SANS 4524-5:1985/ ISO 4524-5:1985	<i>Metallic coatings - Test methods for electrodeposited gold and gold alloy coatings - Part 5: Adhesion tests.</i>
SANS 8662-2:1992/ ISO 8662-2:1992	<i>Hand-held portable power tools - Measurement of vibrations at the handle - Part 2: Chipping hammers and riveting hammers.</i>
SANS 8662-3:1992/ ISO 8662-3:1992	<i>Hand-held portable power tools - Measurement of vibrations at the handle - Part 3: Rock drills and rotary hammers.</i>
SANS 8662-4:1994/ ISO 8662-4:1994	<i>Hand-held portable power tools - Measurement of vibrations at the handle - Part 4: Grinders.</i>
SANS 8662-5:2003/ ISO 8662-5:1992	<i>Hand-held portable power tools - Measurement of vibrations at the handle - Part 5: Pavement breakers and hammers for construction work.</i>
SANS 8662-6:2003/ ISO 8662-6:1994	<i>Hand-held portable power tools - Measurement of vibrations at the handle - Part 6: Impact drills.</i>
SANS 8662-7:2003/ ISO 8662-7:1997	<i>Hand-held portable power tools - Measurement of vibrations at the handle - Part 7: Wrenches, screwdrivers and nut runners with impact, impulse or ratchet action.</i>
SANS 8662-8:2003/ ISO 8662-8:1997	<i>Hand-held portable power tools - Measurement of vibrations at the handle - Part 8: Polishers and rotary, orbital and random orbital sanders.</i>
SANS 8662-9:2003/ ISO 8662-9:1996	<i>Hand-held portable power tools - Measurement of vibrations at the handle - Part 9: Rammers.</i>
SANS 8662-10:2003/ ISO 8662-10:1998	<i>Hand-held portable power tools - Measurement of vibrations at the handle - Part 10: Nibblers and shears.</i>
SANS 8662-12:2003/ ISO 8662-12:1997	<i>Hand-held portable power tools - Measurement of vibrations at the handle - Part 12: Saws and files with reciprocating action and saws with oscillating or rotating action.</i>
SANS 8662-13:2003/ ISO 8662-13:1997	<i>Hand-held portable power tools - Measurement of vibrations at the handle - Part 13: Die grinders.</i>
SANS 8662-14:2003/ ISO 8662-14:1996	<i>Hand-held portable power tools - Measurement of vibrations at the handle - Part 14: Stone-working tools and needle scalers.</i>
SANS 9933:1995/ ISO 9933:1995	<i>Products in fibre-reinforced cement - Long corrugated or asymmetrical section sheets and fittings for roofing and cladding.</i>
SANS 60044-1:2003/ IEC 60044-1:2003	<i>Instrument transformers - Part 1: Current transformers.</i>
SANS 60044-2:2003/ IEC 60044-2:2003	<i>Instrument transformers - Part 2: Inductive voltage transformers.</i>
SANS 60044-5:2005/ IEC 60044-5:2004	<i>Instrument transformers - Part 5: Capacitor voltage transformers.</i>
SANS 60044-6:2004/ IEC 60044-6:1992	<i>Instrument transformers - Part 6: Requirements for protective current transformers for transient performance.</i>
SANS 60614-2-3:1990/ IEC 60614-2-3:1990	<i>Specification for conduits for electrical installations - Part 2: Particular specifications for conduits - Section 3: Pliable conduits of insulating material.</i>
SANS 60614-2-4:1985/ IEC 60614-2-4:1985	<i>Specification for conduits for electrical installations - Part 2: Particular specifications for conduits - Section 4: Pliable self-recovering conduits of insulating materials.</i>
SANS 60614-2-6:1992/ IEC 60614-2-6:1992	<i>Specification for conduits for electrical installations - Part 2: Particular specifications for conduits - Section 6: Pliable conduits of metal or composite materials.</i>
SANS 60614-2-7:1995/ IEC 60614-2-7:1995	<i>Conduits for electrical installations - Specification - Part 2: Particular specifications for conduits - Section 7: Rigid non-threadable conduits of aluminium alloy.</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.
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