



Uganda National Bureau of Standards (UNBS) Technical Committee (TC) Structure as of 1 January 2024

Engineering and construction standards

1. UNBS/TC 100, Building and Construction

Scope: Standardization in the field of buildings and civil engineering works, including: general terminology;

- ❖ organization of information in the processes of design, manufacture and construction;
- ❖ general geometric requirements for buildings, building elements and components including modular coordination and its basic principles, general rules for joints, tolerances and fits;
- ❖ general rules for other performance requirements, including functional and user requirements related to service life, sustainability, accessibility and usability;
- ❖ general rules and guidelines for addressing the economic, environmental and social impacts and aspects related to sustainable development;
- ❖ geometric and performance requirements for components procurement processes, methods and procedure

2. UNBS/TC 101, Structural designs

Scope: Standardization of the bases for design of structures irrespective of the material of construction including especially terminology and symbols, load, forces and other actions and limitations of deformations. Consideration and coordination of basic reliability requirements concerning the structures as a whole, including consideration of structures made of particular materials (steel, stone, concrete, wood, etc.) as far as is necessary for the preparation of a common approach to reliability in liaison with the relevant technical committees

3. UNBS/TC 102, Geotechnics

Scope: Standardization of geotechnical aspects in the field of building and civil engineering, including (related) properties of soil and rock.

4. UNBS/TC 103, Transport safety

Standardization in the field of road, air, railway, water transport safety and management needs,

5. UNBS/TC 104, Railways

Scope: Standardization of all products and services specifically related to the rail industry, including construction, operation and maintenance of parts and equipment, methods and technology, interfaces between infrastructure, vehicles, and rail specifications, environmental aspects, excluding Electrotechnical and electronic products and services for railways.

6. UNBS/TC 105, Water and Sanitation

Scope: Standardization of design and construction of water supply and wastewater systems, or maintenance techniques; and standardization of water for construction and agriculture

7. UNBS/TC 106, Cement, Concrete products and tiles

Scope: Standardization in the field of all types of cement and related products like gypsum, lime, etc

Standardization of the technology of concrete, of the design and construction of concrete, reinforced concrete and pre-stressed concrete structures, plastic paving units, and tiles used for floor coverings and wall facings so as to ensure progressive development both in quality and in price reduction; and of definitions and terms, as well as testing procedures, to facilitate international exchange of research work.

8. UNBS/TC 107, Mechanical Engineering

Scope: Standardization in the field of mechanical engineering covering boilers and pressure vessels; refrigeration and air-conditioning, mechanical and thermal energy systems (excluding solar energy), material handling systems and equipment, construction plant and machinery; pumps and hand pumps; compressors and blowers, gas cylinders, mechanical security equipment and devices, mining 13 equipment; printing machinery, sewing machines, water well drilling, utensils, cutlery and domestic hardware; wire ropes and wire products, gaskets and packing; methods and equipment for gasification, mechanical equipment for petroleum, petro-chemical industries.

9. UNBS/TC 108, Steel and Aluminium

Scope: Standardization in the field of cast, wrought and cold-formed steel, including technical delivery conditions for steel tubes for pressure purposes and aluminium and its alloys.

10. UNBS/TC 109, Pipes, fittings and valves

Scope: Standardization of pipes, fittings, valves and auxiliary equipment intended for the transport of fluids and made from all types of plastic materials, including all types of reinforced plastics.

Metal pipes and fittings are also included. Metal tubes used in construction are excluded.

This standardization includes pipes, flanges, fittings, valves and auxiliary equipment's, dimensions and their tolerances; requirements for chemical, mechanical and physical properties and appropriate test methods; requirements and test

methods for other properties relevant to particular applications; temperature and pressure ratings.

11. UNBS/TC 110, Fire fighting and fire safety

Scope: Standardization in the field of fire protection and firefighting equipment including firefighting hose, portable fire pumps, fire hose reels, fire monitors, firefighting nozzles.

12. UNBS/TC111, Sanitary appliances and fittings

Scope: Standardization of glazed earthenware sanitary appliances, water closets, bath tubs vitreous sanitary appliances, non-ferrous waste fittings for wash basins and sinks, traps waste plug and accessories for wash basins, flushing cisterns, manhole covers for use in drainage works(except concrete), pillar taps, ball valves,copper and plastic floats for ball valves, caulking lead, ferrules, plug cocks, foot valves, surface boxes.

13. UNBS/TC 112, Production and General Engineering

Scope: Standardization in the field of basic and production engineering such as engineering drawings, screw threads, fasteners, transmission devices, bearings, gears, horology, machine tools, hand tools, cutting tools, pneumatic tools and fluid power system including automation in manufacturing and robotics.

14. UNBS/TC 113, Renewable energy

Scope: Standardization in the field of renewable energy including codes of practicefor the performance, manufacture, installation and maintenance of the following renewable energy technologies; Hydro power, Geothermal, Wind power, Biomass,Solar power, Hydrogen and tidal

15. UNBS/TC 114, Light and lighting

Scope: Standardization in the field of application of lighting including all types of electric lamps, caps and their auxiliaries

To prepare standards for lights and lighting systems, regarding their terminology, safety, performance, test methods and compatibility specifications for:

- ❖ Electric lamps and electric light sources
- ❖ Caps and holders
- ❖ Control gear and control devices for electric lamps, electric light sources, and electronic lighting equipment
- ❖ Luminaires
- ❖ Lighting systems

16. UNBS/TC 115, Primary/secondary cells and batteries

Scope: Standardization of all primary and secondary cells and batteries, regarding their terminology, design, construction, performance, safety, test methods and application. 14

17. UNBS/TC 116, Electrical appliances and accessories

Scope: Standardization in the field of electrical appliances, accessories and related systems covering performance, safety test methods and other required aspects for electrical appliances for household and other uses.

18. UNBS/TC 117, Transport vessels and accessories

Scope: Standardization in the field of transport vessels, including motor vehicles, mopeds, cycles, trailers, ships, boats, cable cars, light trailers and trucks, aircraft andspace crafts, freight containers, spare parts.

19. UNBS/TC 118, Metrology

Scope: Standardization of quantities and units, metrological requirements of measuring equipment. It also includes standardization in the field of Microbeam analysis (measurement, parameters, methods and reference materials) where incident electrons/beams are used as detection signals.

20. UNBS/TC 119, Furniture

Scope: Standardization in the field of furniture including terms and definitions; performance, safety and dimensional requirements; requirements for specific components (such as hardware); test methods.

By furniture is meant- freestanding or built-in units, used for storing, lying, sitting, working etc.

21. UNBS/TC 120, Energy Management

Scope: Standardization of energy efficiency and saving products, systems and practices including terms and definitions, performance, safety and operational requirements of energy production and consumption units.

22. UNBS/TC 123, Information and Communication Technology

Scope: Standardization in the field of Information security, cybersecurity and privacy protection, Interconnection of information technology equipment, User interfaces, artificial intelligence, Cloud Computing and Distributed Platforms. It also handles Software and systems engineering, Cards and security devices for personal identification, Programming languages, their environments and system software interfaces

23. UNBS/TC 124, Telecommunications and information exchange

Scope: Standardization in the field of telecommunications dealing with the exchange of information between open systems, including system functions, procedures, parameters as well as the conditions for their use. This standardization encompasses protocols and services of lower layers including physical, data link, network, and transport as well as those of upper layers including but not limited to Directory and ASN.1: MFAN, NFC, PLC, Future Networks and OID.

24. UNBS/TC 125, Packaging and Packaging Products

Standardization in the field of packaging with regard to terminology and definitions, characteristics, performance requirements and tests, and utilization of related technologies on packaging.

25. UNBS/TC 126, Timber and timber products

Scope: Standardization in the field of round, sawn and processed timber, and timber materials in and for use in all applications, including terminology, specifications and test methods.

26. UNBS/TC 127 Conductors, cables, transformers, switch gear and control gear

Scope: Standardization of conductors and cables of all gauges and applications; power transformers, switchgear and control gear for transmission and distribution purposes; associated insulators, systems and assemblies.

Food, agriculture and forestry standards

27. UNBS/TC 200, Milk and milk products and processes

Scope: Standardization of milk and milk products covering the dairy chain from primary production to consumption including terminology, specifications, guidelines, codes of practice, requirements for packaging, storage and transportation, methods of sampling and test.

28. UNBS/TC 201, Food packaging and handling and materials in contact with food

Scope: Standardization of packaging and handling of foods including standards on migration from plastics, metal release, paper and board in contact with foodstuffs, reuse, recycling and disposal of materials related to food packaging. The standards may include terminology, codes of practices, specifications, classifications, guides, dimensions, marking, quality and performance requirements, test methods and impact of packaging and packaging materials on health and the environment (air, water, land, natural resources, flora, fauna and human and their interactions).

29. UNBS/TC 202, Oilseeds, oils, fats and related products and processes

Scope: Standardization of oleaginous seeds and fruits, oilseed residues, edible fats and oils of animal, vegetable and marine origin including olive oil and blends of fats and oils and emulsions but not products originating from milk and milk products. The standards may include specifications, codes of practice, methods of sampling and test.

30. UNBS/TC 203, Cereals, pulses and related products and processes

Scope: Standardization of cereals, pulses, legumes and their processed products including terminology, specifications, codes of practice, requirements for packaging, storage and transportation, methods of sampling and test.

31. UNBS/TC 204, Fruits, vegetables, tubers and processed products

Scope: Standardization of fruits, vegetables, tubers and processed products including nuts, in particular terminology, specifications, codes of practice, requirements for packaging, storage, transportation, methods of sampling and test.

32. UNBS/TC 205, Spices, culinary herbs and condiments

Scope: Standardization of spices, culinary herbs and condiments, in particular terminology, specifications, codes of practice, requirements for packaging, storage and transportation, methods of sampling and test.

33. UNBS/TC 206, Nutrition and special dietary foods

Scope: Standardization of nutritional standards for all foods including foods for special dietary uses, in particular terminology, specifications, codes of practice, guidelines, requirements for packaging, storage and transportation, methods of sampling and test.

34. UNBS/TC 207, Food additives and contaminants

Scope: Standardization of maximum or guideline levels for individual food additives, for contaminants (including environmental contaminants) and for naturally occurring toxicants in food and feed, in particular specifications of identity and purity for food additives, labelling of food additives, codes of practice, guidelines, methods of sampling and test.

35. UNBS/TC 208, Food labelling and hygiene

Scope: Standardization in the field of food labelling applicable to all foods and food hygiene and safety management systems, covering the food supply chain from primary production to consumption, human and animal foodstuffs as well as animal and vegetable propagation materials. The standards may include terminology, codes of practice, guidelines and microbiological criteria.

36. UNBS/TC 209, Seeds and planting Materials

Scope: Standardization of seeds and propagation materials, in particular terminology, specifications, purity, codes of practice, guidelines, methods of sampling, and test. 16

37. UNBS/TC 210, Animal feeds and feeding Stuffs

Standardization of animal feeds and feeding stuffs including terminology, specifications of raw material & finished product, guidelines and requirements for packaging, storage and transportation, methods of sampling and test.

38. UNBS/TC 211, Fish and fishery products

Scope: Standardization of fresh fish including shellfish and fresh, frozen (including quick-frozen) or otherwise processed fish products, in particular terminology, codes of practices, specifications, requirements for packaging, storage and transportation, methods of sampling and test.

39. UNBS/TC 212, Sugars, edible starches and related confectionery products

Scope: Standardization of sugar, starch and related confectionery products including terminology, specifications, codes of practice, materials, methods of sampling and test.

40. UNBS/TC 213, Live animals, meat and meat products

Scope: Standardization of live animals, meat and meat products, including game and related products and meat co-products, in particular terminology, specifications, guidelines, codes of practice, requirements for packaging, storage and transportation, methods of sampling and test.

41. UNBS/TC 214, Poultry and poultry products

Scope: Standardization of poultry and poultry products and processed poultry meat products, in particular terminology, codes of practices, specifications, requirements for packaging, storage and transportation and methods of sampling and test.

42. UNBS/TC 215, Tobacco and related products

Scope: Standardization of production, postharvest handling, storage and transport of tobacco, in particular terminology, guidelines, codes of practice, specification, methods of sampling and test.

43. UNBS/TC 216, Apiculture and apiculture Products

Scope: Standardization of apiculture and apiculture products, in particular terminology, codes of practice, guidelines, specifications, requirements for packaging, storage and transportation and methods of sampling and test.

44. UNBS/TC 217, Organic agriculture

Scope: Standardization of organic farming, inputs used in organic production and organic products, in particular terminology, codes of practice, guidelines, labelling, specifications and methods of sampling and test.

45. UNBS/TC 218, Drinking water and soft drinks

Scope: Standardization of drinking water and soft drinks (beverages), in particular terminology, specifications, codes of practice, requirements for packaging, storage and transportation, methods of sampling and test.

46. UNBS/TC 219, Alcoholic beverages

Scope: Standardization of alcoholic beverages of various kinds, in particular terminology, specifications, codes of practice, requirements for packaging, storage and transportation, methods of sampling and test.

47. UNBS/TC 220, Coffee, tea, cocoa and related products

Scope: Standardization of tea, coffee, cocoa and their processed products, in particular terminology, specifications, codes of practice, requirements for packaging, storage and transportation, verification criteria for determination of the sustainability and traceability, methods of sampling and test.

48. UNBS/TC 221, Agriculture, forestry and biotechnology

Scope: Standardization for production, processing, distribution and marketing of crops and animals and other agricultural products such as ornamentals, fibres and pets as well as non-timber forest products and agricultural biotechnology. The standards may include terminology, codes of practice, good agriculture practice, guidelines, sustainability criteria, labelling, methods of sampling and test. 17

49. UNBS/TC 222, Agrochemicals and Veterinary Drugs

Scope: Standardization of common names for pesticides and other agrochemicals including fertilizers and soil conditioners as well as maximum or guideline levels for individual pesticide and veterinary drugs residues in food and feed, in particular terminology, codes of practice, guidelines, specifications, methods of sampling and test.

Chemicals and consumer products

50. UNBS/TC 300, Industrial and public health chemicals

Scope: Standardization in the field of the chemical industry in general, particularly the basic chemical products that are widely used in different industries.

Standardization will cover specifications, guidelines, codes of practice, performances, terminologies and definitions, methods of sampling and test of industrial and public health chemicals.

51. UNBS/TC 301, Chemistry

Scope: Standardization in the area of chemical products covering specifications, guidelines, codes of practice, performance, terminologies and definitions, methods of sampling and test.

Excluded: Products falling within the scope of any other UNBS technical committee (e.g. UNBS / TC 505, UNBS / TC 306, UNBS / TC 308 and UNBS / TC 310) unless specifically requested

52. UNBS/TC 302, Paints, varnishes and related products

Scope: Standardization in the field of paints, varnishes and related products including specifications, guidelines, codes of practice, performance, terminologies and definitions, methods of sampling and test, for paints, varnishes and related products.

53. UNBS/TC 303, Plastics and Related Products

Scope: Standardization in the field of plastics and related products including specifications, guidelines, codes of practice, performance, terminologies and definitions, methods of sampling and test, for plastics and polymer products.

54. UNBS/TC 304, Environment

Scope: Standardization in the field of air quality, water quality and soil quality including establishment of limit values for air pollutants, limits of acceptability for water quality, and effluents to water and soil.

Excluded: limits of acceptability for drinking water quality and Fertilizers and soil inputs

55. UNBS/TC 305, Leather and leather products

Scope: Standardization in the areas of raw hides and skins, pickled pelts; tanned hides and skins and finished leather and leather products including specifications, guidelines, codes of practice, performance, terminologies and definitions, methods of sampling and test.

56. UNBS/TC 306, Paper and paper products

Scope: Standardization in the field of paper, board and pulps and cellulosic nanomaterials (CNM), including terminology, sampling procedures, test methods, product and quality specifications.

57. UNBS/TC 307, Medical devices and equipment

Scope: Standardization in the field of medical devices and equipment including specifications, performance, codes of practice, methods of test, sampling, guidelines, biological evaluation, terminology and definition of medical devices and equipment

58. UNBS/TC 308, Personal protective gear

Scope: Standardization in the field of personal protective gear including specifications, guidelines, codes of practice, performance, terminologies and definitions, methods of sampling and test.

59. UNBS/TC 309, Surface active agents

Scope: Standardization in the field of surface-active agents such as soaps, detergents, emollients and cleansers and mixtures containing one or more surface-active agents with or without other conventional components of soap and detergent formulations. 18

60. UNBS/TC 310, Cosmetics and related products

Scope: Standardization of cosmetics and related products. The standards may include specifications, guidelines, codes of practice, performance requirements, methods of sampling and testing, terminology and definitions for cosmetics and related products with respect to material and product quality and safety.

61. UNBS/TC 311, Crafts and related products

Scope: Standardization in the field of art and crafts involving the creation of impressions from natural or artificial materials such as wood, glass, paper, plastics, rubber or clay, or any other material including cultural and modern arts and crafts and related products covering materials, specifications, dimensions, safety requirements, terminology and test methods

62. UNBS/TC 312, Minerals

Scope: Standardization in the field of minerals and mineral concentrates including specifications, guidelines, codes of practice, performance, terminologies and definitions, methods of sampling and test

63. UNBS/TC 313, Petroleum and Petrochemical Products

Scope: Standardization of petroleum products, lubricants and petrochemicals including specifications, guidelines, codes of practice, performance, terminologies and definitions, methods of sampling and test.

64. UNBS/TC 314, Petroleum Drilling, Development and Production Materials and Equipment

Scope: Standardization in the field of drilling, development and production equipment structures and materials including offshore structures, Central Processing Facility (CPF) and measurement equipment.

65. UNBS/TC 315, Textiles and related products

Scope: Standardization in the field of fibres, yarns, cloth and other fabricated textile products and accessories including terminology, sampling procedures, test methods and specifications for textile products with respect to safety, health, environmental protection, material and product safety and quality.

66. UNBS/TC 316 Footwear

Scope: Standardization of test methods, terminology and performance requirements for components for footwear; test methods and terminology for whole shoe.
Excluded: Footwear as a protective gear

67. UNBS/TC 317, Petroleum refining and transportation materials, equipment and structures

Scope: Standardization of materials, equipment and structures used in the refining and transportation by pipeline of petroleum, petrochemical and natural gas.

68. UNBS/TC 318, Petroleum distribution

Scope: standardization in the field of petroleum product distribution, storage and dispensing equipment and facilities

69. UNBS/TC 319, Toys

Scope: Standardization of toys relating to their mechanical, physical and chemical properties
Excluded: electrical properties

Services and business management

70. UNBS/TC 400, Quality Management

Scope: Standardization in the field of quality management (generic quality management systems and supporting technologies), as well as quality management standardization in specific sectors at the request of the affected sector. 19

71. UNBS/TC 401, Conformity Assessment

Scope: Standardization in the field of preparation of international guides and International Standards related to the practice of testing, inspection and certification of products, processes and services, and to the assessment of management systems, testing laboratories, inspection bodies, certification bodies, accreditation bodies and their operation and acceptance facilitating national, regional and global trade due to increased competitiveness of Ugandan goods and services. This TC shall promote mutual recognition and acceptance of national and regional conformity assessment systems, and the appropriate use of International Standards for testing, inspection, certification, assessment and related purposes; and study means of assessing the conformity of products, processes, services and management systems to appropriate standards or other technical specifications.

72. UNBS/TC 402, Environmental Management

Scope: Standardization in the field of environmental management systems and tools in support of sustainable development.

Excluded: Test methods of pollutants, setting limit values and levels of environmental performance, and standardization of products.

73. UNBS/TC 403, Tourism, leisure & hospitality

Scope: Standardization of the terminology and specifications of the services offered by tourism, leisure and hospitality service providers, including: related activities, touristic destinations, leisure and hospitality and the requirements of facilities and equipment used by them, to provide tourism buyers, providers and consumers with criteria for making informed decisions and/or review of standards in the area of tourism.

74. UNBS/TC 404, Financial and insurance services

Scope: Standardization in the field of banking, securities, insurance and other financial services.

75. UNBS/TC 405, Health services

Scope: Standardization in the field of health services and healthcare organization management including: classification, terminology, nomenclature, management practices and metrics that comprise the non-clinical operations in healthcare entities.

76. UNBS/TC 406, Education & Learning Services

Scope: Standardization in the field of education and learning services focused on: management, facilitators, assessments, terminologies, and ethical conduct;

The TC will base its work on market needs, state of the art and feedback taking into account the net benefit of the interested parties and learners with special need.

77. UNBS/TC 407, Logistics and supply chain management

Scope: Standardization in the field of Chain of Custody (CoC), including terminology, principles, requirements for and control systems used by supply chain actors with regards to the management of products in terms of their specified characteristics.

The work is intended to be applicable to all products and services.

The TC shall define a generic CoC process framework, which serves a wide range of sectors, raw materials and products, and covers specific product characteristics, to enhance the transparency, process efficiency and comparability of CoC models.

78. UNBS/TC 408, Occupational health & safety

Scope: Standardization in the field of Occupational Health and Safety best practices, metrics and implementation designed to enable an organization control its OHS risks and improve its OHS performance.

79. UNBS/TC 409, Consumer Policy Committee (COPOLCO)

Scope: Standardization in the area of consumer issues and concerns with a view to develop a national Consumer Policy.

80. UNBS/TC 410, UNBS/TC 410, Business and innovation management 20

Scope: Standardization of tools and methods and interactions between relevant parties to enable Businesses and innovation.

81. UNBS/TC 411, Halal Integrity

Scope: Standardization in the field of generic management systems, food and non-food (excluded: preparation of standards related to specific products and industry sectors) from Islamic perspectives.

82. UNBS/TC 412, Applied Statistics

Scope: Standardization in the application of statistical methods, including generation, collection (planning and design), analysis, presentation and interpretation of data.

83. UNBS/TC 413, Governance of Organizations

Scope: Standardization in the field of governance relating to aspects of direction, control and accountability of organizations

84. UNBS/TC 414, Risk, Security & Resilience

Scope: Standardization in the field of risk management, security and resilience to enhance the safety and resilience of society.

85. UNBS/TC 415, Cosmetology & Wellness

Scope: Standardization in the field of cosmetology and wellness the holistic treatment of skin, hair and nails and includes, but is not limited to, manicures, pedicures, application of artificial nails, special occasion hairstyling, shampooing hair, cosmetic application, body hair removal, chemical hair relaxers or straighteners, permanent waves, colouring and highlighting of hair and hair extensions or wig treatments and wellness which includes: physical, mental and social wellbeing.

86. UNBS/TC 416, Health Informatics

Scope: Standardization in the field of health informatics, to facilitate capture, interchange and use of health-related data, information, and knowledge to support and enable all aspects of the health system.

87. UNBS/TC 417, Urban planning and sustainable development

Scope: Standardization in the field of sustainability aspects, which includes the development of requirements, frameworks, guidance and supporting techniques and tools related to the achievement of sustainable development considering smartness and resilience, to help all Cities and Communities and their interested parties in both rural and urban areas become more sustainable.