

Хампонго Чондэ Чилала, Виктор Александров

Hampongo Jeongdae Chilala, Victor Alexandrov

СЕРТИФИКАЦИЯ ТЕХНИКИ В РЕСПУБЛИКЕ ЗАМБИЯ

CERTIFICATION OF TECHNOLOGY IN THE REPUBLIC OF ZAMBIA

Уральский государственный аграрный университет, г. Екатеринбург

Ural State Agriculture University, Ekaterinburg

Представлены материалы по обзору стандартов и правилам сертификации техники в условиях Республики Замбия.

Submitted here is a material on the review of standards and rules on the certification of tech machinery in the republic of Zambia.

Ключевые слова: сертификация, стандарт, техника, международная организация, качество.

Key words: certification, standard, machinery, international organization, quality.

A standard is a technical document detailing the requirements necessary to ensure that a material, product, service or procedure is fit for the purpose it was intended

The Zambia Bureau of Standards is a statutory body under the Ministry of Commerce, Trade and Industry. It implements the Standards Act No. 4 of 2017 of the laws of Zambia and was established by an Act of Parliament in 1982 which was repealed by CAP 416 of 1994. Prior to 1st January 2018, ZABS operated under CAP 416 which mandated the Bureau to produce Standards, Enforce the Compulsory Standards, Test Products and offer Metrology Services to Industry. The implementation of the National Quality Policy (NQP) which required re-aligning of the National Quality Infrastructure saw the birth of three new institutions namely Zambia Compulsory Standards Agency (ZCSA), Zambia Metrology Agency (ZMA) and Zambia Bureau of Standards (ZABS) itself through the enactments of various Acts. The Zambia Bureau of Standards is the service provider for Standards Certification to industry in Zambia.

Certification refers to confirmation or an attestation that products, processes or systems of an organization meet the requirements of a standard or specification. It provides assurance that products, services and processes meet national or international standards/specifications. This is done through a review, assessment or audit. The Bureau offers two types of certification schemes namely Product Certification and Systems Certification.

Product Certification

Product certification involves the issuance of a certificate or mark (or both) to demonstrate that a specific product meets a defined set of requirements such as safety, fitness for use and/or interchangeability characteristics for that product, usually specified in a standard. It promises guaranteed quality to the consumer and acceptable manufacturing practices to the manufacturer. The product certification mark is normally found on the product or its packaging and may also appear on a certificate issued by the product certification body. The mark carries a reference to the number or name of the relevant product standard against which the product has been certified.

Procedures for Product Certification

There are some important steps to follow in order to obtain a license to apply the certification mark on a product

- Manufacturer applies to ZABS for the license to apply the mark on their product
- ZABS begins a series of systematic inspections of the manufacturers' factory and laboratory
- Samples are randomly selected for testing
- Submission of audit report to client
- Closure of corrective actions (if any)
- Certification decision by independent committee
- Issuance of certificate of conformity
- Surveillance audit
- Market surveillance
- Re-certification(after 1 year)

Systems Certification

A Management System is a company's structure for managing its processes and activities that transform inputs of resources into a product or service that meets the company's objectives while satisfying the customers' quality requirements, complying with regulations meeting environmental and public health objectives

ZABS offers training and certification in the following management systems;

- Quality Management System (ISO 9001)
- Environmental Management System (EMS 14001)
- Occupational Health and Safety Management System (OHSAS 18001)
- Food Safety Management System/HACCP (ISO 22000:2005)
- Information Management System (ISO 27001)

- Business Continuity Management System (ISO 22301)

Preparation of a Zambian Standard

There are different processes of preparing a National Standard which include the following

- a. Adoption of an International Standard
- b. Adaptation/adoption of a foreign standard
- c. Developing a National Standard (from “scratch”) using local/international information where international/regional/national standards do not exist

a) Adoption of an International Standard

- the need for a standard is identified
- Applicability of an international standard is analysed
- Public enquiry
- Resolution of comments
- Approval and publication

b) ADOPTION OF A FOREIGN STANDARD

- The need for a standard is identified
- Applicability of a foreign standard is analysed
- Public enquiry (standard is circulated for public comments)
- Resolution of comments
- Translation if need be
- Approval and Publication

Preparation of a Zambian Standard

There are different processes of preparing a National Standard which include the following

- a. Adoption of an International Standard
- b. Adaptation/adoption of a foreign standard
- c. Developing a National Standard (from “scratch”) using local/international information where international/regional/national standards do not exist

a) Adoption of an International Standard

- the need for a standard is identified
- Applicability of an international standard is analysed
- Public enquiry
- Resolution of comments
- Approval and publication

b) ADOPTION OF A FOREIGN STANDARD

- The need for a standard is identified
- Applicability of a foreign standard is analysed
- Public enquiry (standard is circulated for public comments)
- Resolution of comments
- Translation if need be
- Approval and Publication

ZABS specializes in standardization, quality assurance, metrology and testing.

Its vision is: "The Zambia Bureau of Standards in partnership with its stakeholders will be the leader in the transformation of Zambian products and services into world class quality for National prosperity."

Its role can be summarized as:

- to prepare Zambian Standards and to promote their use;
- to make arrangements or to provide facilities for the examination and testing of commodities, materials and substance from which commodities may be manufactured, processed, treated or finished;
- to provide quality control and quality assurance schemes for commodities in order to promote and improve trade;
- to coordinate the efforts of producers and consumers in the improvement of appliances, tech machinery, processes, new materials and products;
- to provide training and consultancy in standardization, quality management and quality assurance; and
- to establish metrological laboratories and other testing laboratories.

The Zambia Bureau of Standards (ZABS) is the Statutory National Standards Body for Zambia established under an Act of Parliament, the Standards Act, Cap 416 of 1994 of the Laws of Zambia for the preparation and promulgation of Zambian Standards

ZABS is a specialized organization of National importance serving the country in the field of standardization, standards formulation, quality control, quality assurance,

import and export quality inspections, certification and removal of technical barriers to trade.

ZABS MISSION STATEMENT

To provide efficient and effective standardization, quality assurance and metrology services to industry and consumers in order to contribute to the improvement of the quality of products and services and promote sustainable socio – economic development in Zambia.

The Zambia Bureau of Standards (ZABS) is a specialised organisation of National importance serving the country in the field of standardization, standards formulation, quality control / assurance, Import and Export quality inspections, certification and removal of technical barriers to trade. The Zambia Bureau of Standards is established by the standards Act CAP 416 of the laws of Zambia.

SGA and Bureau Veritas/BIVAC was appointed by the Zambia Bureau of Standards (ZABS) for the pre-export Verification of Conformity (PVoC) of products before shipment and according to 3 Routes of Verification:

- Route A - applicable to any good and any trader
- Route B - for frequent traders of homogeneous goods that have been registered by Bureau Veritas
- Route C - for manufacturers who had their goods licensed for Zambia the aim of the program is to establish a quality import inspection regime that is in harmony with member states of the East African Community [EAC].

Products covered by the scheme is listed here. A full detailed list is available at the end of this document:

- Toys, sport equipment & childcare products
- Electrical and electronic products
- Vehicles parts
- Chemical products
- Mechanical products & building materials
- Gas Equipment and appliances
- Textile products & footwear
- Furniture (wood & metal articles)
- Paper & stationary
- Safety (personal protective) equipment
- Food & food products

Request for verification The Importer/Exporter lodges a request for verification with Bureau Veritas (see contacts overleaf). This request should include:

- The list and designation of goods intended to be exported, name and address of the importer and exporter (invoice,...)

- Conformity documents (usually provided by the exporter) that may be available for the goods intended to be exported, such as: Third party certificate / Test reports / Reports of analysis according to safety/hygiene standards

- Information related to the location and provisional date of availability of goods to carry out the physical inspection of goods before shipment. (Filling up of the Request for verification (RFV) Form). Routes to compliance to facilitate trade and to adjust intervention according to the risk, the PVoC programme offers 3 different routes to demonstrate compliance (see the process overleaf):

- Route A: Applicable to any good and any trader

- Route B: Option for frequent traders of goods that have been registered by Bureau Veritas

- Route C: Option for frequent traders of goods that have been licensed by Bureau Veritas

Documentary review / Testing Bureau Veritas reviews the information provided by the exporter and checks the adequacy against the Zambian standards. If necessary, samples are taken and laboratory testing/analysis is carried out. Inspection The objective of the inspection is to check that:

- Goods presented for inspection are those identified during the documentary review

- Products comply with applicable standard

- Goods match the description in the import documents In case of doubt, Bureau Veritas inspector may take samples for additional assessment. PVoC certificate Bureau Veritas verifies the inspection report against the provided documents. Upon satisfactory result, the secured Certificate of Conformity is issued. This certificate shall be used for the clearance of the goods. When non conformities are detected, a Non Conformity Report is issued.

СПИСОК ИСПОЛЬЗОВАННЫХ ИСТОЧНИКОВ

1. [/https://www.sgs.com/~media/Global/Documents/Technical%20Documents/Technical%20Datasheets/SGS-PCA-ZM-Datasheet-A4-EN-12.pdf](https://www.sgs.com/~media/Global/Documents/Technical%20Documents/Technical%20Datasheets/SGS-PCA-ZM-Datasheet-A4-EN-12.pdf)

2. [/https://www.iso.org/member/2215.html](https://www.iso.org/member/2215.html)

3. http://www.parliament.gov.zm/sites/default/files/documents/acts/The%20Compulsory%20Standards%20Act%20of%202017_0.pdf

4. <https://www.cma-cgm.com/static/eCommerce/Attachments/Zambia%2011115.pdf>