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**Course development guide for education about standardization
- Standardization and application of numbering technology**

标准化教育课程建设指南 编码技术标准化与应用

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Foreword

This document is in accordance with the provisions of GB/T 1.1-2020 "Guidelines for standardization work Part

1. Structure and drafting rules for standardization documents" Drafting. Please note that some of the contents of this document may involve patents. The issuing organization of this document does not assume the responsibility for identifying patents. This document was proposed and coordinated by the National Standardization Education Standardization Working Group (SAC/SWG27). This document was drafted by: China Article Coding Center, Shenzhen Institute of Standards and Technology, Shenzhen University of Technology, China Barcode Technology and Application Association, Shenzhen Quality Consumption Research Institute, Shenzhen Fuwai Hospital of Chinese Academy of Medical Sciences, Shenzhen BGI Technology Co., Ltd., Shenzhen Eternal Asia Supply Chain Co., Ltd., Xiamen Standardization Research Institute, Chongqing Quality and Standardization Research Institute, Zhejiang Quality Science Research Institute Institute of Standardization, Shenzhen Zhibiao Technology Co., Ltd., Guangzhou Institute of Standardization, China National Institute of Standardization, China Quality Standards Publishing and Media Co., Ltd. Qilu University of Technology (Shandong Academy of Sciences), Suzhou Jianxiong Vocational and Technical College, and the State Administration for Market Regulation's Certification and Accreditation Technology Research Institute Center, Shanghai Jiao Tong University, Shanghai Ocean University, Guangdong Research Institute of New Biomaterials and High-end Medical Devices. The main drafters of this document are. Zhang Chenghai, Xu Lifeng, Li Sucui, Huang Manxue, Kong Hongliang, Liang Dong, Su Wei, Xu Ziqu, Lian Xiao, Li Rong, Pan Tiewen, Chi Lijuan, Li Qianyi, Ling Xiang, Yang Guangdong, Shi Wei, Zhang Jianan, Yang Xingxing, Qiu Bin, Jiang Huayan, Chen Zhenyu, Chen Yu, Ding Wei, Wei Mei, Liu Hongzhao, Liu Hui, Wu Jieyu, Yang Xiaofeng, Xu Qing, Chen Junhua, Lü Jie,

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1 Scope

This document gives guidance on building a course on the standardization and application of numbering and coding technology: identification schemes, barcodes, product codes and the rules by which an object is given a designation that stays unique across the systems that handle it. Coding looks like plumbing until it fails. A product identifier that is not unique, not stable or not resolvable is the reason a shipment cannot be traced, a recall cannot be scoped and two databases cannot be joined. Teaching it as a discipline in its own right is what stops each new system inventing its own scheme. Issued on 28 February 2025 by SAMR and SAC as a guiding technical document, in force from the same day, under the technical jurisdiction of the Standardization Administration of China. Aimed at higher education, usable as a reference in vocational and continuing education.

This document provides guidance for coding technology standardization and application courses, and provides guidance for course design, course implementation, course evaluation, and course improvement. Description. This document applies to the development and implementation of optional courses on coding technology standardization and application in general higher education, vocational education, and continuing education. It is used as a reference for courses on coding technology standardization and application.

2 Normative references

The contents of the following documents constitute essential clauses of this document through normative references in this document. For referenced documents without a date, only the version corresponding to that date applies to this document; for referenced documents without a date, the latest version (including all amendments) applies to This document. GB /Z 43946-2024 Guidelines for the Construction of Standardization Education Curriculum Basic Knowledge of Standardization

3 Terms and definitions

The following terms and definitions apply to this document.

3.1 Article Tangible material resources and intangible service products involved in economic and social activities. [Source: GB/T 37056-2018, 2.1]

3.2 code A character or group of characters that represent a specific thing or concept. [Source: GB/T 10113-2003, 2.2.5]

3.3 Numbering The process of assigning a code to an object or concept.

Note. When used as a noun, it refers to the code itself. [Source: GB/T 37056-2018, 2.6]

3.4 Article numbering; article number The process of assigning codes to objects according to certain rules to facilitate identification and processing by machines and humans is to assign codes to objects. Note

1. Generally, item coding includes three types. item identification coding, item classification coding, and item attribute coding. Note

2. When used as a noun, it refers to the code itself assigned to the item. [Source: GB/T 37056-2018, 2.7]