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**Course development guide for education about standardization
- Standardization of inorganic non-metallic materials**

标准化教育课程建设指南 无机非金属材料标准化

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Foreword

This document is a standard or guiding technical document. This document complies with the provisions of GB/T 1.1-2020 "Standardization Work Guidelines Part

1.Structure and Drafting Rules of Standardization Documents". Drafting. Please note that

some content in this document may involve patents. The issuing organization of this document assumes no responsibility for identifying patents. This document was proposed and is under the jurisdiction of the National Standardization Education Standardization Working Group (SAC/SWG27). This document was drafted by: China Building Materials Federation, Shenzhen Quality Standard Technology Co., Ltd., and Hangzhou Hezhi Standard Technical Service Co., Ltd. Hebei University of Technology, Wuhan University of Technology, Beijing University of Technology, Wuhan University of Science and Technology, Hohai University, Anhui University of Architecture, Jiaxing University, Shenzhen Technical University, China Jiliang University, Zaozhuang Vocational College of Science and Technology, Heilongjiang Construction Vocational and Technical College, and Meishan Special Equipment Supervision and Inspection Institute. The main drafters of this document are. Cao Yuanhui, Wang Shengjie, Huang Manxue, Gong Xianzheng, Wei Mei, Liang Jinsheng, Jian Shouwei, Song Zijian, Yin Yucheng, and Zhu Peiwu. Zhu Zhe, Liu Ning, Xiao Feng, Zheng Yunsheng, Ding Yi, Xiong Houren, Wang Xinyu, Chen Suqin, Zhang Hanwen, Cui Suping, Zhang Hong, Chen Meizhu, Han Bingqiang, Xu Qiang Ji Nan, Zhang Yi, Ma Rui, Xue Lili, Wu Duanjing, Peng Wenxiu, Li Xiangcheng, Liu Hongcun. Guidelines for the Development of Standardized Educational Curriculum Standardization of Inorganic Non-metallic Materials

1 Scope

This document gives guidance on building a course on the standardization of inorganic non-metallic materials: cement and concrete, glass, ceramics, refractories and the technical glass and fibre products derived from them. It is a family of materials held together by how they are tested rather than by what they are made of, and the test is often the standard's entire content - a compressive strength figure means nothing without the specimen geometry, the curing regime and the loading rate that produced it. Teaching the standardization alongside the materials is what stops a graduate reading a datasheet as if the number were absolute. Issued on 3 December 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.

This document provides the general principles for the development of standardized courses on inorganic non-metallic materials, as well as the curriculum design, implementation, evaluation, and quality assurance system. Guidance on systems and other aspects. This document applies to the development and implementation of standardized courses on inorganic non-metallic materials in regular higher education, as well as vocational education, continuing education, and other forms of education. The standardized curriculum for inorganic non-metallic materials can be used as a reference.

2 Normative references

The contents of the following documents, through normative references within the text, constitute essential provisions of this document. Dated citations are not included. For references to documents, only the version corresponding to that date applies to this document; for undated references, the latest version (including all amendments) applies. This document.

GB/T 20000.1 Guidelines for Standardization Work - Part

3 Terms and Definitions

The terms and definitions defined in GB/T 20000.1, GB/T 36642, GB/T 43294 and GB /Z 43946, as well as the following terms and definitions, apply to this document. document.

3.1 Education service The process of helping learners acquire and enhance their abilities through teaching, learning, or research. [Source: GB/T 43294-2023, 3.1.2]

3.2 higher education Education undertaken after completing high school education, through various colleges and universities and other higher education institutions.

Note. Higher education includes associate degree education, vocational college education, undergraduate education, and postgraduate education (master's and doctoral education). [Source: GB /Z 43946-2024, 3.1.2]

3.3 Vocational Education To equip learners with the professional ethics, scientific and cultural knowledge, professional knowledge, and technical skills required to engage in a particular profession or achieve career development. Education implemented to improve comprehensive professional qualities and action abilities.

Note. Vocational education includes vocational school education and vocational training. [Source: GB /Z 43946-2024, 3.1.3]