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**Course development guide for education about standardization
- Green manufacturing standardization**

标准化教育课程建设指南 绿色制造标准化

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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: Shenzhen Institute of Standards and Technology, Shenzhen University of Technology, Dalian University, Shenzhen Polytechnic, Liaoning University of Technology University, Guangzhou CESI Standard Testing Institute Co., Ltd., Suzhou Jianxiong Vocational and Technical College, Huazhong Agricultural University, China University of Metrology, New Guangdong Institute of Biomaterials and High-end Medical Devices, China Quality Standards Publishing and Media Co., Ltd., China Southern Power Grid Co., Ltd. Liuzhou Branch of High Voltage Transmission Company, Electric Power Research Institute of State Grid Henan Electric Power Company, Shanghai Jiaotong University, China National Institute of Standardization, Shanghai University of Posts and Telecommunications Guangdong Province Dongguan Quality and Technical Supervision Standards and Coding Institute, Shenyang Ruima Technology Co., Ltd., Jinan University, Liaoning Gold Standard Quality Research Institute Institute Co., Ltd., Certification and Accreditation Technology Research Center of the State Administration for Market Regulation. The main drafters of this document are. Huang Xiangyan, Huang Manxue, Xu Lei, Qiao Xu, Feng Nianwen, Zhang Congguang, Li Gang, Huang Shenghua, Miao Xiangyang, Xu Lijie, Liu Ying, Ye Youquan, Zhang Hui, Wang Zhifang, Yue Shanyong, Zhai Jianpang, Liu Hui, Zhang Qian, Song Yang, Wang Donghui, Du Chenlin, Wei Xinlin, Hu Guanzi, Dai Zhiyou, Xu Jia, Liu Yanjun, Lai Yan, Xiao Tingting, Zhao Wanying, Zhou Ye, Huang Xiaoxia, Han Jin, Xiao Feng, Liu Jin, Li Meiting, Wang Ruobing. Guidelines for the Construction of Standardized Education Curriculum Green Manufacturing Standardization

1 Scope

This document gives guidance on building a course on green manufacturing standardization: the standards that govern how a product's environmental burden is measured, declared and reduced across design, production and end of life. Green manufacturing is the area where Chinese standardization has moved fastest, and where a claim is hardest to check without knowing the standard behind it. Teaching the framework - what a green factory evaluation covers, what a product carbon footprint declaration rests on, how a life cycle assessment is bounded - is what lets an engineer read those claims rather than repeat them. Issued on 28 February 2025 by SAMR and SAC as a guiding technical document, in force from the same day. It reads usefully alongside GB/Z 182, the 2026 evaluation guide for zero carbon factories in the machinery industry.

This document provides the general principles for the construction of a standardized green manufacturing course, as well as the course construction, course content design, implementation, evaluation and improvement. Guidance in areas such as advancement. This document is applicable to the construction and implementation of green manufacturing

standardized courses in general higher education, vocational education, continuing education and other forms of green manufacturing. It is used as a reference for the standardized curriculum of color manufacturing.

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/T 28612 Green Manufacturing Terminology GB /Z 43946 Guidelines for the Development of Standardization Education Curriculum Basic Knowledge of Standardization

3 Terms and definitions

The terms and definitions defined in GB/T 28612 and GB /Z 43946 and the following apply to this document.

3.1 basicmodule The course provides the most basic and core theoretical knowledge, core concepts and methodological skills.

3.2 Extension moduleextensionmodule In the course, students can choose to further deepen the subject knowledge, concept connotation and method skills according to actual needs.

4 General Principles

4.1 Integration Combined with manufacturing-related disciplines and majors, through design teaching activities, the concept of green development, standardized thinking and manufacturing-related disciplines are realized. Professional integration and promotion.

4.2 Practicality Guided by social practice needs, we focus on integrating theory with practice and cultivate learners' standardized thinking and problem-solving skills through designing practical teaching activities. Ability to solve practical problems.

4.3 Internationalization Keep up with the development trend of international green manufacturing, integrate international rules and cutting-edge achievements into the curriculum, use international resources to design teaching activities, and cultivate Cultivate learners' international perspectives.