ICS 03.180
CCS A 18

NATIONAL STANDARD OF THE PEOPLE'S REPUBLIC OF CHINA

GB/Z 144-2025

Course development guide for education about standardization - Automotive standardization and application

标准化教育课程建设指南 汽车标准化与应用

Issued on: December 3, 2025 **Implemented on: December 3, 2025**

Issued by: State Administration for Market Regulation;
Standardization Administration of China

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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 Automotive Technology & Research Center Co., Ltd., Shenzhen Technology University, Shenzhen Institute of Standards and Technology, and Liaoning Institute of Technology. University of Technology, Beijing Automotive Research Institute Co., Ltd., Beiqi Foton Motor Co., Ltd., Dongfeng Commercial Vehicle Co., Ltd., SAIC-GM-Wuling Automobile Co., Ltd., Guangzhou Xiaopeng Automobile Technology Co., Ltd., Shenzhen Polytechnic, and BYD Auto Industry Co., Ltd. The main drafters of this document are. Li Weijing, Li Yunwei, Sun Chuyi, Dai Xingda, Huang Manxue, Jia Peng, Liu Hongwei, Wang Hui, Wu Jieyu, and Hu Jian. Lü Jiaying, Cui Changmei, Liu Lei, Li Tianhui, Wang Tong, Xu Duo, Li Zhengguo, Gong Enzhong, Meng Xue. Guidelines for the Development of Standardized Educational Curriculum Automotive Standardization and Application

1 Scope

This document gives guidance on building a course on automotive standardization and its application: the mandatory national standards a vehicle has to meet before it can be sold in China, how they relate to the UN regulations, and how type approval and CCC certification are built on top of them. The Chinese automotive standards system is the one a foreign manufacturer meets first and understands last. It borrows heavily from the UN framework and then diverges in places that matter - occupant protection, battery safety, the intelligent

cockpit - and the divergences are exactly what a homologation engineer has to know. A course guide is the map of that system. 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 establishes the general principles for the development of automotive standardization and application courses, and outlines the procedures for course development, design, implementation, evaluation, and improvement. Examples of guidance and teaching syllabus in this area. This document applies to the development and implementation of automotive standardization and application courses in regular higher education, as well as automotive courses in vocational education, continuing education, and other forms. This is for reference in the vehicle standardization curriculum.

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 36642 Online courses for information technology learning, education and training

GB/T 42411.1 Online Curriculum System for Information Technology Learning, Education and Training - Part

1.Framework and Basic Requirements GB /Z 43946-2024 Guidelines for the Construction of Standardized Educational Curricula. Basic Knowledge of Standardization

3 Terms and Definitions

The terms and definitions defined in GB /Z 43946-2024, as well as the following terms and definitions, apply to this document.

3.1 To ensure product quality, improve production efficiency, promote technological innovation, and facilitate international trade, the design, production, and inspection of automobiles are subject to stricter regulations. Activities to establish unified technical and management requirements for testing, service, and management.

4 General Principles

4.1 Systemic To meet the teaching needs of general higher education, take into account the development trends of the automotive industry, and the future career paths of learners in the automotive field. The necessary knowledge and skills. Curriculum development comprehensively considers all aspects, including curriculum system, teaching content,

teaching methods, and evaluation standards, in conjunction with learning resources. By coordinating resources, a unified system with close connections between all links is formed.

4.2 Practicality Guided by the practical needs of automotive standardization, and combined with the standardization development of the automotive industry, practical teaching activities are designed to cultivate learners' skills. The ability to think innovatively and solve practical problems enables the application of theoretical knowledge to automotive standardization practices.

4.3 International Following the international trend of automotive standardization, we integrate international rules into the curriculum, utilize international resources to design teaching activities, and cultivate learners.