

ICS 33.040.40

CCS L 78



**NATIONAL STANDARD OF THE
PEOPLE'S REPUBLIC OF CHINA**

GB/T 21644-2025

Replacing GB/T 21644-2008

General requirements for networks distance learning platform

网络远程教育平台总体要求

Issued on: October 5, 2025

Implemented on: May 1, 2026

**Issued by: State Administration for Market Regulation;
Standardization Administration of the PRC**

Table of Contents

1.Scope	1
2 Normative References	1
3.Terms and Definitions	1
4.Overview	1
5 Application Scenarios	1
5.1 Learner Application Scenarios	1
5.1.1 Real-time Remote Learning Application Scenarios	1
5.1.2 Non-real-time remote learning application scenarios	2
5.2 Application Scenarios for Education Providers	2
5.2.1 Education provides application scenarios	2
5.2.2 Application Scenarios for Educational Resource Management	3
5.2.3 Application Scenarios for Academic Affairs Management	3
5.2.4 Application Scenarios for Educational Supervision	3
6.Functional Architecture	4
7.Functional Requirements	4
7.1 Educational Application Functional Requirements	4
7.1.1 Functional Requirements for Real-Time Education Applications	4
7.1.2 Functional Requirements for Non-Real-Time Educational Applications	5
7.2 Functional Requirements for Educational Management Applications	5
7.2.1 Functional Requirements for Academic Affairs Management Applications	5
7.2.2 Functional Requirements for Educational Resource Management Applications	5
7.2.3 Functional Requirements for Education Supervision Applications	5
7.2.4 Authentication and Authorization Function Requirements	5
7.3 Functional Requirements for Educational Application Support Systems	6
8 Network Requirements	6
8.1 Bearer Network Requirements	6
8.2 User Access Requirements	6
10 Platform Management Requirements	6
10.1 Configuration Management Requirements	6
10.2 Performance Management Requirements	7
10.3 Fault Management Requirements	7
11 Performance Requirements	7

Foreword

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. This document replaces GB/T 21644-2008 "General Requirements for Online Distance Education Platforms". Compared with GB/T 21644-2008, except for the conclusion... Aside from structural adjustments and editorial changes, the main technical changes are as follows:

- a) Terms and definitions have been removed (see Chapter 3 of the 2008 edition);
- b) The chapter on abbreviations has been removed (see Chapter 4 of the 2008 edition);
- c) The overview has been revised (see Chapter 4, Chapter 5 in the 2008 edition);
- d) Increased application scenarios (see Chapter 5);
- e) The functional architecture was changed (see Chapter 6, 6.1 of the 2008 edition);
- f) Additional functional requirements have been added (see Chapter 7);
- g) Network requirements have been changed (see Chapter 8, 6.5 of the 2008 edition);
- h) Added security and copyright protection requirements (see Chapter 9);
- i) The platform administration requirements have been changed (see Chapter 10, sections 8.5.2, 8.5.3, and 8.5.4 of the 2008 edition);

1 Scope

GB/T 21644-2025 is the Chinese national standard covering the distance learning platform - the course delivery and the live and recorded classes, the assessment and the identity of who is actually taking it, the learning records and their portability, the accessibility, and the load a whole school imposes at once. It replaces GB/T 21644-2008, a standard seventeen years old and written before video was practical. In force from 1 May 2026. Issued on 5 October 2025, it has been in force since 1 May 2026, replacing GB/T 21644-2008.

This document describes the application scenarios of the online distance education platform and specifies its functional architecture, functional requirements, and network requirements. Requirements, security and copyright protection requirements, platform management requirements, and performance requirements. This document applies to the planning, design, construction, implementation, and application of online distance

education platforms.

2 Normative references

The contents of the following documents, through normative references within the text, constitute essential provisions of this document. Dated references are listed below. Only the version corresponding to that date applies to this document; for undated references, the latest version (including all amendments) applies. document.

GB/T 22239-2019 Information Security Technology - Basic Requirements for Network Security Level Protection

GB/T 43697-2024 Data Security Technology - Data Classification and Grading Rules

3 Terms and Definitions

There are no terms or definitions to be defined in this document.

4 Overview

Online distance education involves multimedia communication between learners and teaching resources located in two or more places. The format is similar to traditional educational methods such as centralized lectures, individual tutoring, self-study, and multi-role/group learning. Online distance education The platform's users may include learners, education providers (including instructors, academic administrators, and educational resource managers), and education regulators. Users can access the device anytime, anywhere, using a computer, personal digital assistant, smartphone, or even a television with a set-top box. Terminals can access the network-based distance education platform using fixed or mobile methods.

5.1 Learner Application Scenarios

5.1.1 Real-time Remote Learning Application Scenarios Real-time remote learning applications include, but are not limited to, the following aspects.

a) Formal Degree Study. Learners participate in courses in virtual, face-to-face classrooms with certificates issued by appropriate institutions, and obtain formal degrees. Bachelor of Science.

b) Remote participation in in-person classroom learning. When learners are unable to attend the classroom due to illness or other reasons, they can temporarily participate in formal virtual face-to-face learning. Classroom teaching. Students participating in virtual face-to-face classroom teaching can watch and participate in the same activities simultaneously with learners in a physical classroom. Unlike offline learners, the learning activities at this course take place remotely rather than in a classroom.

c) Attending public lectures. Learners who are unable to attend public lectures in person may attend them remotely.

chinastandards.org · PREVIEW