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Introduction

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- All comments should be submitted online at <https://standardsdevelopment.bsigroup.com/>. You will need to register in order to comment.

Template for comments and secretariat observations

Date: xx/xx/20xx	Document: ISO/DIS xxxx
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1	2	(3)	4	5	(6)	7
MB	Clause No./ Subclause No./Annex (e.g. 3.1)	Paragraph/ Figure/Table/Note	Type of comment	Comment (justification for change) by the MB	Proposed change by the MB	Secretariat observations on each comment submitted
	3.1	Definition 1	ed	Definition is ambiguous and needs clarifying.	Amend to read '...so that the mains connector to which no connection...'	
	6.4	Paragraph 2	te	The use of the UV photometer as an alternative cannot be supported as serious problems have been encountered in its use in the UK.	Delete reference to UV photometer.	



DRAFT International Standard

ISO/IEC DIS 8808

Information technology for learning, education and training — Online course information model

ICS: 35.240.90

ISO/IEC JTC 1/SC 36

Secretariat: **KATS**

Voting begins on:
2024-08-06

Voting terminates on:
2024-10-29

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Foreword

ISO (the International Organization for Standardization) is a worldwide federation of national standards bodies (ISO member bodies). The work of preparing International Standards is normally carried out through ISO technical committees. Each member body interested in a subject for which a technical committee has been established has the right to be represented on that committee. International organizations, governmental and non-governmental, in liaison with ISO, also take part in the work. ISO collaborates closely with the International Electrotechnical Commission (IEC) on all matters of electrotechnical standardization.

The procedures used to develop this document and those intended for its further maintenance are described in the ISO/IEC Directives, Part 1. In particular the different approval criteria needed for the different types of ISO documents should be noted. This document was drafted in accordance with the editorial rules of the ISO/IEC Directives, Part 2 (see www.iso.org/directives).

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. ISO shall not be held responsible for identifying any or all such patent rights. Details of any patent rights identified during the development of the document will be in the Introduction and/or on the ISO list of patent declarations received (see www.iso.org/patents).

Any trade name used in this document is information given for the convenience of users and does not constitute an endorsement.

For an explanation on the meaning of ISO specific terms and expressions related to conformity assessment, as well as information about ISO's adherence to the World Trade Organization (WTO) principles in the Technical Barriers to Trade (TBT) see the following URL: www.iso.org/iso/foreword.html.

This document was prepared by Technical Committee ISO/IEC JTC1, SC36 .

This edition cancels and replaces the edition (ISO :), which has been technically revised.

The main changes compared to the previous edition are as follows:

A list of all parts in the ISO series can be found on the ISO website.

Any feedback or questions on this document should be directed to the user's national standards body. A complete listing of these bodies can be found at www.iso.org/members.html.

Introduction

For rules on the drafting of the introduction, refer to the ISO/IEC Directives, Part 2:2018, Clause 13.

The role of online learning within formal education and training has developed considerably since the advent of the world wide web. During the public health emergencies pandemic, this mode of teaching and learning was pivotal in maintaining continuity of delivery and access. As a result, there is renewed attention on issues associated with efficiency and interoperability of the systems that support online learning.

The primary purpose of this document is to:

- a) provide an information model that identifies opportunities for course interoperability;
- b) promote course sharing among different institutions and learning management systems, i.e., course information sharing and course importation and exportation;
- c) specify common elements of an online course for participants and suppliers using ISO/IEC 19788-1 Ed2;
- d) enhance user experience of participants and interested parties; and to
- e) guide e-learning related suppliers to provide more quality products and services.

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights other than those in the patent database. ISO [and/or] IEC shall not be held responsible for identifying any or all such patent rights.

Information technology for learning, education and training — Online course information model

1 Scope

This document presents an online course information model, highlighting common elements and their descriptions. This document also describes online courses. Its purpose is to support conceptual understanding of online courses and instructional strategies in online education. This model can be used to inform about the design and development of online courses, and to support migration of online courses between different platforms.

The information model of online courses can be extended based on MLR rules

2 Normative references

The following documents are referred to in the text in such a way that some or all of their content constitutes requirements of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

ISO/IEC 19788-1, *Information technology -- Learning, education and training -- Metadata for learning resources -- Part 1: Framework*

3 Terms and definitions

For the purposes of this document, the *following terms and definitions / terms and definitions given in , as well as the following [delete what doesn't apply] apply.*

ISO and IEC maintain terminological databases for use in standardization at the following addresses:

- IEC Electropedia: available at <http://www.electropedia.org/>
- ISO Online browsing platform: available at <http://www.iso.org/obp>

3.1

online course

instructional process that is provided via an online learning platform with a structured learning activities linked to related digital learning resources, according to certain instructional strategies and learning outcomes

Note 1 to entry: An online course is a type of learning and education, in a broad sense, it can be seen as learning resource(cf 19788-1 term 3.23 learning resource).

3.2

digital learning resource

entity that can be referred to and used for online learning, education and training. Digital learning resources referred to digital files, multimedia materials and relevant links

Note 1 to entry: Evaluation resources include but are not limited to: tests, assignments, quizzes, online examinations, question bank and others. Non-evaluation resources include but are not limited to: slides, videos, audios, pictures, digital books, digital lab, links, and others.

Note 2 to entry: A digital learning resource is a learning resource (cf 19788-1 term 13.3.2 learning resource).

3.3**learning activity**

a task or series of tasks assigned to learners according to instructional objectives

Note 1 to entry: It could be an arrangement of learning resources and schedules of instructional interactions to realize the information exchange among learners, learning resources and learning platform. A learning activity is an important element in online courses, which can include one or more sub-activities.

3.4**knowledge point**

a kind of label to the minimum unit of learning content (theory, principle and thought)

3.5**course content package**

a file package with a logical directory that contains the entire structure of an online course and the digital learning resources referenced

4 Symbols and abbreviated terms

IETF	Internet Engineering Task Force
IRI	Internationalized Resource Identifiers
MIME	Multipurpose Internet Mail Extensions
MLR	Metadata of Learning Resource
LOM	Learning Object Metadata
URI	Uniform Resource Identifier
URL	Uniform Resource Locator
W3C	World Wide Web Consortium
XML	Extensible Markup Language

5 General elements of online course**5.1 Online course**

Online course in this document means the instructional process that occurs or be operated in an online learning platform, with organized learning content, according to certain instructional strategies and learning outcomes.

An online course is the main reflection of learning content organization and teaching activity implementation in LMS. The information model of online courses includes an online course, learning activities, learning resources, the knowledge point set and extensions (to define personalized elements) shown in [Figure 1](#).

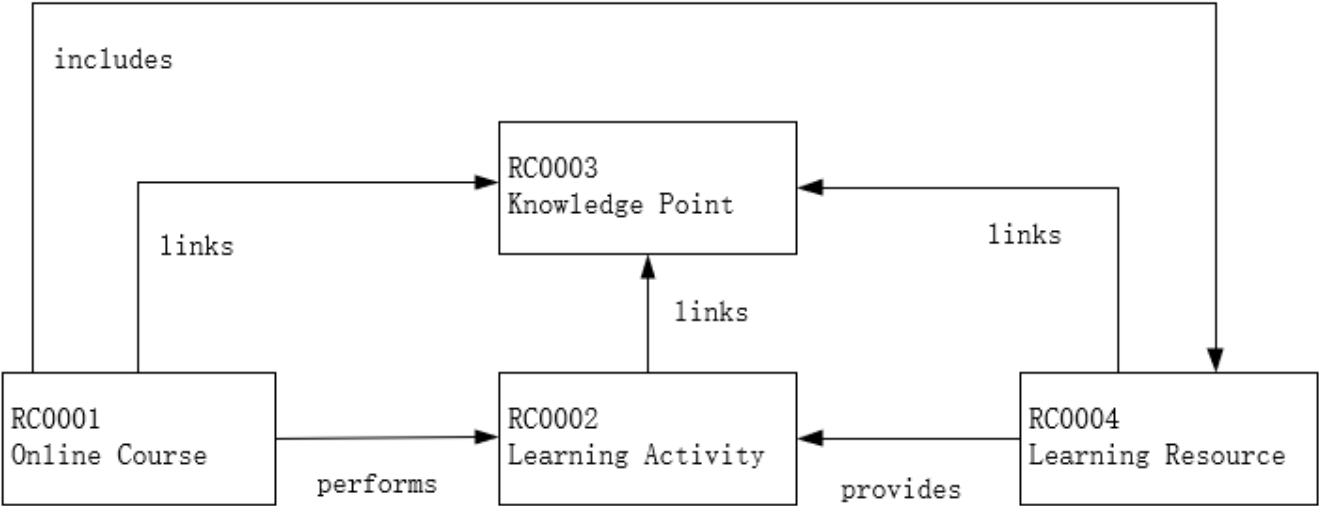


Figure 1 — General elements of online course

Table 1 — Class "Online Course"

Resource class specification	
Identifier	ISO_IEC_8808:202x::RC0001
Canonical Identifier	ISO_IEC_8808::RC0001
Label	Online Course
Name	OnlineCourse
Definition	Instances of this class are instructional process that are enabled in an online learning platform with a structured learning activities linked to related digital learning resources, according to certain instructional strategies and learning outcomes.
Subclass of	ISO_IEC_19788-5:2012::RC0004 (Curriculum)
Note	-

5.2 Learning activity

Table 2 — Class "Learning activity"

Resource class specification	
Identifier	ISO_IEC_8808:202x::RC0002
Canonical Identifier	ISO_IEC_8808::RC0002
Label	Learning Activity
Name	Learning Activity
Definition	Instances of the class Learning Activity(defined in ISO/IEC 19788-5)
Subclass of	ISO_IEC_8808:202x::RC0001 (Online Course)
Note	Learning activity is an important element in online courses, which can include one or more sub-activities.