SLOVENSKI STANDARD
SIST EN ISO/IEC 19788-5:2014

01-marec-2014

Informacijska tehnologija - Učenje, izobraževanje in usposabljanje - Metapodatki za učne vire - 5. del: Elementi izobraževanja (ISO/IEC 19788-5:2012)

Information technology - Learning, education and training - Metadata for learning resources - Part 5: Educational elements (ISO/IEC 19788-5:2012)

Informationstechnik - Lernen, Ausbildung und Weiterbildung - Metadaten für Lernressourcen - Teil 5: Ausbildungselemente (ISO/IEC 19788-5:2012)

Technologies de l'information - Apprentissage, éducation et formation - Métadonnées pour ressources d'apprentissage - Partie 5: Éléments pédagogiques (ISO/IEC 19788-5:2012)

Ta slovenski standard je istoveten z: **EN ISO/IEC 19788-5:2014**

ICS:

03.180	Vzgoja in izobraževanje	Education
35.240.99	Uporabniške rešitve IT na drugih področjih	IT applications in other fields

SIST EN ISO/IEC 19788-5:2014 **en**

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EUROPEAN STANDARD

NORME EUROPÉENNE

EUROPÄISCHE NORM

EN ISO/IEC 19788-5

January 2014

ICS 03.100.30; 35.240.99

English Version

Information technology - Learning, education and training - Metadata for learning resources - Part 5: Educational elements (ISO/IEC 19788-5:2012)

Technologies de l'information - Apprentissage, éducation et formation - Métadonnées pour ressources d'apprentissage - Partie 5: Éléments pédagogiques (ISO/IEC 19788-5:2012)

Informationstechnik - Lernen, Ausbildung und Weiterbildung - Metadaten für Lernressourcen - Teil 5: Ausbildungselemente (ISO/IEC 19788-5:2012)

This European Standard was approved by CEN on 1 December 2013.

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Ref. No. EN ISO/IEC 19788-5:2014 E

EN ISO/IEC 19788-5:2014 (E)

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Foreword

The text of ISO/IEC 19788-5:2012 has been prepared by Technical Committee JTC 1 "Information technology" of the International Organisation for Standardization (ISO) and the International Electrotechnical Commission (IEC) and has been taken over as EN ISO/IEC 19788-5:2014 by Technical Committee CEN/TC 353 "Information and Communication Technologies for Learning, Education and Training" the secretariat of which is held by UNI.

This European Standard shall be given the status of a national standard, either by publication of an identical text or by endorsement, at the latest by July 2014, and conflicting national standards shall be withdrawn at the latest by July 2014.

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. CEN [and/or CENELEC] shall not be held responsible for identifying any or all such patent rights.

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INTERNATIONAL
STANDARD

ISO/IEC
19788-5

First edition
2012-05-01

Information technology — Learning, education and training — Metadata for learning resources —

Part 5:
Educational elements

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Technologies de l'information — Apprentissage, éducation et formation — Métadonnées pour ressources d'apprentissage —

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Partie 5: Éléments pédagogiques

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Foreword

ISO (the International Organization for Standardization) and IEC (the International Electrotechnical Commission) form the specialized system for worldwide standardization. National bodies that are members of ISO or IEC participate in the development of International Standards through technical committees established by the respective organization deal with particular fields of technical activity. ISO and IEC technical committees collaborate in fields of mutual interest. Other international organizations, governmental and non-governmental, in liaison with ISO and IEC, also take part in the work. In the field of information technologies, ISO and IEC have established a joint technical committee, ISO/IEC JTC 1.

International Standards are drafted in accordance with the rules given in the ISO/IEC Directives, Part 2.

The main task of the joint technical committee is prepare International Standards. Draft International Standards adopted by the joint technical committee are circulated the national bodies for voting. Publication as an International Standard requires approval by at least 75 % of the national bodies casting a vote.

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ISO/IEC 19788-5 was prepared by Joint Technical Committee ISO/IEC JTC 1, *Information technology*, Subcommittee SC 36, *Information technology for learning, education and training*.

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ISO/IEC 19788 consists of the following parts, under the general title *Information technology — Learning, education and training — Metadata for learning resources*:

- *Part 1: Framework*

- *Part 2: Dublin Core elements*

- *Part 3: Basic application profile*

- *Part 5: Educational elements*

The following parts are under preparation:

- *Part 4: Technical elements*

- *Part 6: Availability, distribution, and intellectual property elements*

Bindings, *Data elements for MLR records*, and *Data elements for Persons* will form the subjects of future Parts 7, 8, and 9, respectively.

ISO/IEC 19788-5:2012(E)

0   Introduction

0.1 Overall purpose of ISO/IEC 19788

The primary purpose of ISO/IEC 19788 is to facilitate: (1) the description of a learning resource by providing a standards-based approach to the identification and specification of the metadata elements required to describe a learning resource, e.g. as a metadata learning resource (MLR) record; and (2) the search, discovery, acquisition, evaluation, and use of learning resources, for instance by learners, instructors or automated software processes. The interoperability of these functions can be achieved through harvesting or federated search processes, among other technologies and solutions. ISO/IEC 19788 is based on identified user requirements.

ISO/IEC 19788 is modularly structured with all subsequent parts corresponding to a specified set of user requirements for the identification and specification of metadata elements having a particular focus and intended use in the description of a learning resource. This includes categories of metadata elements focused on technical perspectives, pedagogical aspects, availability and intellectual property aspects, bindings, etc.

0.2 Purpose and overview of ISO/IEC 19788-5

Educational elements defined in this part of ISO/IEC 19788 provide a means to describe learning resources related to their use in learning activities, their relation to curricula or programs of teaching, their relation to specific target groups, etc.

This part of ISO/IEC 19788 provides a set of data elements to describe the educational use of learning resources. In the Information Technology for Learning Education and Training (ITLET) context, resources are often used to attain a specific educational outcome that can be described in some form of educational framework, for example as part of a curriculum, lesson plan, study program, etc. Information about a resource may include a curriculum topic, often associated with a specific educational level, and sometimes with a related description of a teaching method. Moreover, the achievement of the educational outcome can also be measured or ascertained through some form of assessment.

The data elements defined in this part of ISO/IEC 19788 can be used in combination with elements from other parts of ISO/IEC 19788, and/or in combination with elements from other standards, such as ISO 15836:2009 [5], IEEE 1484.12.1-2002 [3] or other metadata schemas. Accordingly, a great number of refinements of the data elements defined in this part of ISO/IEC 19788 are under the responsibility of communities.

INTERNATIONAL STANDARD   **ISO/IEC 19788-5:2012(E)**

Information technology — Learning, education and training — Metadata for learning resources —

Part 5:
Educational elements

1   Scope

ISO/IEC 19788 specifies, in a rule-based manner, metadata elements and their attributes for the description of learning resources. This includes the rules governing the identification of metadata elements and the specification of metadata attributes.

These metadata elements are used to form the description of a learning resource, i.e. as a metadata learning resource (MLR) record.

This part of ISO/IEC 19788 specifies, using the framework specified in ISO/IEC 19788-1, educational aspects of learning resources across various educational, cultural and linguistic settings.

2   Normative references

The following referenced documents are indispensable for the application of this document. For dated references, only the edition cited applies. The following referenced documents are indispensable for the application of this document. For dated references, only the edition cited applies.

ISO 639-2:1998(E/F)[1], *Codes for the representation of names of languages — Part 2: Alpha-3 code/Codes pour la représentation des noms de langue — Partie 2: Code alpha-3*

ISO 639-3:2007(E), *Codes for the representation of names of languages — Part 3: Alpha-3 code for comprehensive coverage of languages*

ISO/IEC 10646:2011(E), *Information technology — Universal Coded Character Set (UCS)*

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

ISO/IEC 19788-2(E), *Information technology — Learning, education and training — Metadata for learning resources — Part 2: Dublin Core elements*

3   Terms and definitions

For the purposes of this document, the following terms and definitions apply.

3.1
audience
set of entities for which the **learning resource** (3.6) is intended or useful

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[1] This part of ISO/IEC 19788 uses the ISO 639-2:1998 Table 4 Terminology Code set, hereafter referred to as "ISO 639-2/T" For additional information, see ISO 639-2:1998, 4.1, Form of language codes.

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