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

**Part 8:  
Data elements for MLR records**

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

*Partie 8: Éléments de données pour les enregistrements MLR*



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# Contents

Page

<b>Foreword</b> .....	<b>iv</b>
<b>Introduction</b> .....	<b>v</b>
<b>1 Scope</b> .....	<b>1</b>
1.1 Scope of MLR multipart standard.....	1
1.2 Scope of this part of ISO/IEC 19788.....	1
<b>2 Normative references</b> .....	<b>1</b>
<b>3 Terms and definitions</b> .....	<b>2</b>
<b>4 Symbols and abbreviated terms</b> .....	<b>2</b>
<b>5 Data element specifications</b> .....	<b>3</b>
5.1 Has Record (DES0100).....	3
5.2 Record Language (DES0200).....	3
5.3 Source Record ID (DES0300).....	4
5.4 Source Record Schema (DES0400).....	4
5.5 Previous Version (DES0500).....	4
5.6 Has Mutable Record (DES0600).....	5
5.7 Record Identifier (DES0700).....	5
5.8 Record Last Update (DES0800).....	6
5.9 Record Repository (DES0900).....	6
5.10 Compliant To (DES1000).....	7
5.11 Contribution (DES001100).....	7
5.12 Contribution Description (DES1200).....	7
5.13 Contribution Date (DES1300).....	8
5.14 Contributed By (DES1400).....	8
5.15 Application Profile ID (DES1500).....	9
5.16 Snapshot (DES1600).....	9
<b>6 Resource classes</b> .....	<b>9</b>
6.1 Resource classes from ISO/IEC 19788-1 and other parts.....	9
6.2 Resource classes defined in this part of ISO/IEC 19788.....	10
6.2.1 Resource class “ <i>MLR Record</i> ”.....	10
6.2.2 Resource class “ <i>Mutable MLR Record</i> ”.....	10
6.2.3 Resource class “ <i>Contribution</i> ”.....	10
6.2.4 Resource class “ <i>Application Profile</i> ”.....	10
<b>7 Predefined rule sets</b> .....	<b>10</b>
7.1 Predefined rule sets from ISO/IEC 19788-1 and other parts.....	10
7.2 Rule sets defined in this part of ISO/IEC 19788.....	11
<b>8 Predefined Data Element Group Specifications (DEGS)</b> .....	<b>11</b>
<b>Annex A (normative) MLR vocabularies</b> .....	<b>12</b>
<b>Annex B (normative) Language equivalents: English, French, and Russian</b> .....	<b>13</b>
<b>Annex C (normative) XML names: English, French, and Russian</b> .....	<b>15</b>
<b>Annex D (normative) Data Element Specification (DES) diagram</b> .....	<b>17</b>
<b>Annex E (normative) Generic Data Element Specifications (DESS) and Resource Classes (RCs)</b> .....	<b>18</b>
<b>Annex F (informative) Crosswalk to MLR</b> .....	<b>28</b>
<b>Bibliography</b> .....	<b>29</b>

## 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 to 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 technology, ISO and IEC have established a joint technical committee, ISO/IEC JTC 1.

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 document 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](http://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 and IEC 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](http://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 WTO principles in the Technical Barriers to Trade (TBT) see the following URL: [Foreword - Supplementary information](#)

The committee responsible for this document is ISO/IEC JTC 1, *Information technology*, Subcommittee SC 36, *Information technology for learning, education and training*.

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 4: Technical elements*
- *Part 5: Educational elements*
- *Part 7: Bindings*
- *Part 8: Data elements for MLR records*
- *Part 9: Data elements for Persons*

The following part is under preparation:

- *Part 11: Migration from the LOM to MLR*

## Introduction

The primary purpose of this part 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 example, by learners, instructors, or automated software processes.

This International Standard is modularly structured with all its 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.

This part of ISO/IEC 19788 uses the data element specification (DES) model and framework provided in ISO/IEC 19788-1 to specify data elements for the description of MLR records.

An MLR record is defined as a “specified set of data elements describing a learning resource and resources directly related to that learning resource” (see ISO/IEC 19788-1:2011, 3.24).

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

## Part 8: Data elements for MLR records

### 1 Scope

#### 1.1 Scope of MLR multipart standard

The primary purpose of this International Standard is to specify metadata elements and their attributes for the description of learning resources. This includes the rules governing the identification of data elements and the specification of their attributes.

This International Standard provides data elements for the description of learning resources and resources directly related to learning resources.

This International Standard provides principles, rules, and structures for the specification of the description of a learning resource. It also identifies and specifies the attributes of a data element, as well as the rules governing their use. The key principles stated in ISO/IEC 19788-1 are informed by a user requirements-driven context with the aim of supporting multilingual and cultural adaptability requirements from a global perspective.

ISO/IEC 19788-1 is information technology neutral and defines a set of common approaches, i.e. methodologies and constructs, which apply to the development of the subsequent parts of ISO/IEC 19788.

#### 1.2 Scope of this part of ISO/IEC 19788

This part of ISO/IEC 19788 provides data elements for the description of MLR records: sets of data elements describing a learning resource [and resources directly related to that learning resource, e.g. persons (authors, contributors), annotations, learning activities, metadata records, etc.]. It can also be used to keep track of the record editing process including global metadata author identification, last record update, and application profile used for the description of a learning resource.

These elements can later be combined with other descriptive elements from other parts of ISO/IEC 19788 or other standards to provide the description of a learning resource and of related entities needed for that description.

This part of ISO/IEC 19788 enables the storage of learning resource description in the traditional database approach and the exchange of descriptions through harvesting mechanisms<sup>1)</sup>.

### 2 Normative references

The following documents, in whole or in part, are normatively referenced in this document and are indispensable for its application. 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*

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1) RDA (Resource Description and Access), OAI PMH (Open Archives Initiative Protocol for Metadata Harvesting), etc.