# INTERNATIONAL STANDARD

## ISO/IEC 19788-3

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**AMENDMENT 1**
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# Information technology — Learning, education and training — Metadata for learning resources —

## Part 3:
## Basic application profile

### AMENDMENT 1

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

*Partie 3: Profil d'application de base*

*AMENDEMENT 1*

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# Foreword

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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).

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Amendment 1 to ISO/IEC 19788-3:2011 was prepared by ISO/IEC JTC 1, *Information technology*, Subcommittee SC 36, *Information technology for learning, education and training*.

ISO/IEC 19788-3:2011/Amd 1:2016
https://standards.iteh.ai/catalog/standards/sist/9cb5115b-27c3-41b2-9d99-
6f6456b9a523/iso-iec-19788-3-2011-amd-1-2016

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

## Part 3:
## Basic application profile

## AMENDMENT 1

*Page iv, Foreword*

Replace the list of parts by the following:

A list of parts in the ISO 19788 series can be found on the ISO website.

*Page v, Introduction*

Add the following paragraph after the first paragraph of 0.2:

As allowed by the amendment to ISO/IEC 19788-1:2011, this document added a new attribute to Data Element Specifications (DESs). The attribute "Best practice(s)" has been added to provide optional informative good practice guidance.

*Page 1, Clause 2*

Replace the last two references by their undated versions:

ISO/IEC 19788-1, *Information technology — Information technology — Metadata for learning resources — Part 1: Framework*

ISO/IEC 19788-2, *Information technology — Information technology — Metadata for learning resources — Part 2: Dublin Core elements*

*Page 3, Clause 5*

Replace the table by the following.

| Application profile specification | |
|---|---|
| Application profile Identifier (AP_Identifier) | ISO_IEC_19788-3:2011:AMD.1:2016::AP0002 |
| Name (ISO English) | MLR Basic Application Profile (v2) |
| Description | MLR entry level element set, based on Dublin Core |
| Underlying data element group specification | ISO_IEC_19788-3:2011:AMD.1:2016::DEGS0002 |

*Page 4, 6.1*

Replace the first table by the following.

| Data element group specification | | | | | | |
|---|---|---|---|---|---|---|
| Identifier (DEGS_Identifier) | ISO_IEC_19788-3:2011:AMD.1:2016::DEGS0002 | | | | | |
| Name (ISO English) | MLR Basic data element group specification (v2) | | | | | |
| Description | MLR entry level element set designed to provide basic interoperability among catalogues or repositories | | | | | |
| **Position** | **DES_Identifier/ DEGS_Identifier** | **Name (ISO English)** | **Presence type indicator** | **Repeatability indicator** | **Order indicator** | **Order semantic** |
| (01) | (02) | (03) | (04) | (05) | (06) | (07) |
| 1 | ISO_IEC_19788-3: 2011:AMD.1:2016:: DEGS0003 | Learning resources DEGS | mandatory | non-repeatable | — | — |
| 2 | ISO_IEC_19788-3: 2011:AMD.1:2016:: DEGS0004 | Persons DEGS | mandatory | non-repeatable | — | — |

Remove the following footnote.

While this edition of the MLR Basic application profile is based on ISO/IEC 19788-2:2011, further editions are likely to include data elements from other parts.

*Page 5, 6.1*

Delete the Conditions Table.

*Page 5, 6.2*

Replace "N/A" by the following subclauses (6.2.1 and 6.2.2).

**6.2.1 Learning resources data element group specification**

| Data element group specification | | | | | | |
|---|---|---|---|---|---|---|
| Identifier (DEGS_Identifier) | ISO_IEC_19788-3:2011:AMD.1:2016::DEGS0003 | | | | | |
| Name (ISO English) | Learning resources DEGS | | | | | |
| Description | MLR entry level element set designed to provide basic description of *Learning Resource* resource class instances. | | | | | |
| **Position** | **DES_Identifier/ DEGS_Identifier** | **Name (ISO English)** | **Presence type indicator** | **Repeatability indicator** | **Order indicator** | **Order semantic** |
| (01) | (02) | (03) | (04) | (05) | (06) | (07) |
| 1 | ISO_IEC_19788-2: 2011::DES0100 | title | conditional C0001 | repeatable | unordered | — |
| 2 | ISO_IEC_19788-2: 2011::DES0200 | creator | conditional C0002 | repeatable | ordered | entities listed by importance of contributions, primary entity first |
| 3 | ISO_IEC_19788-2: 2011::DES0300 | subject | conditional C0001 | repeatable | unordered | — |

| 4 | ISO_IEC_19788-2: 2011::DES0400 | description | conditional C0001 | repeatable | unordered | — |
|---|---|---|---|---|---|---|
| 5 | ISO_IEC_19788-2: 2011::DES0500 | publisher | conditional C0002 | repeatable | unordered | — |
| 6 | ISO_IEC_19788-2: 2011::DES0600 | contributor | conditional C0002 | repeatable | ordered | entities listed by importance of contributions, primary entity first |
| 7 | ISO_IEC_19788-2: 2011::DES0700 | date | optional | repeatable | unordered | — |
| 8 | ISO_IEC_19788-2: 2011::DES0800 | type | optional | repeatable | unordered | — |
| 9 | ISO_IEC_19788-2: 2011::DES0900 | format | optional | repeatable | unordered | — |
| 10 | ISO_IEC_19788-2: 2011::DES1000 | identifier | mandatory | repeatable | unordered | — |
| 11 | ISO_IEC_19788-2: 2011::DES1100 | source | optional | repeatable | unordered | — |
| 12 | ISO_IEC_19788-2: 2011::DES1200 | language | optional | repeatable | unordered | — |
| 13 | ISO_IEC_19788-2: 2011::DES1300 | relation | optional | repeatable | unordered | — |
| 14 | ISO_IEC_19788-2: 2011::DES1400 | coverage | optional | repeatable | unordered | — |
| 15 | ISO_IEC_19788-2: 2011::DES1500 | rights | conditional C0003 | repeatable | unordered | — |
| 16 | ISO_IEC_19788-2: 2011:AMD.1:2016:: DES1600 | creator | conditional C0002 | repeatable | ordered | entities listed by importance of contributions, primary entity first |
| 17 | ISO_IEC_19788-2: 2011:AMD.1:2016:: DES1700 | subject | conditional C0001 | repeatable | unordered | — |
| 18 | ISO_IEC_19788-2: 2011:AMD.1:2016:: DES1800 | description | conditional C0001 | repeatable | unordered | — |
| 19 | ISO_IEC_19788-2: 2011:AMD.1:2016:: DES1900 | publisher | conditional C0002 | repeatable | unordered | — |
| 20 | ISO_IEC_19788-2: 2011:AMD.1:2016:: DES2000 | contributor | conditional C0002 | repeatable | ordered | entities listed by importance of contributions, primary entity first |
| 21 | ISO_IEC_19788-2: 2011:AMD.1:2016:: DES2100 | source | optional | repeatable | unordered | — |

| 22 | ISO_IEC_19788-2: 2011:AMD.1:2016:: DES2200 | relation | optional | repeatable | unordered | — |
|---|---|---|---|---|---|---|
| 23 | ISO_IEC_19788-2: 2011:AMD.1:2016:: DES2300 | rights | conditional C0003 | repeatable | unordered | — |
| 24 | ISO_IEC_19788-3: 2011:AMD.1:2016:: DES0101 | date and time | optional | repeatable | unordered | — |
| 25 | ISO_IEC_19788-3: 2011:AMD.1:2016:: DES0201 | time inter-val | optional | repeatable | unordered | — |
| 26 | ISO_IEC_19788-3: 2011:AMD.1:2016:: DES0301 | content type | optional | repeatable | unordered | — |
| 27 | ISO_IEC_19788-3: 2011:AMD.1:2016:: DES0401 | calendar date | optional | repeatable | unordered | — |

**Conditions table**

| Code ID | Conditions |
|---|---|
| C0001 | A value shall be provided for at least one of these properties: ISO_IEC_19788-2:2011::DES0100 (**title**), ISO_IEC_19788-2:2011::DES0300 (**subject**), ISO_IEC_19788-2:2011:AMD.1:2016::DES1700 (**subject**), ISO_IEC_19788-2:2011::DES0400 (**description**) or ISO_IEC_19788-2:2011:AMD.1:2016:: DES1800 (**description**). |
| C0002 | A value shall be provided for at least one of these properties: ISO_IEC_19788-2:2011::DES0200 (**creator**), ISO_IEC_19788-2:2011:AMD.1:2016::DES1600 (**creator**), ISO_IEC_19788-2:2011:: DES0500 (**publisher**), ISO_IEC_19788-2:2011:AMD.1:2016::DES1900 (**publisher**), ISO_IEC_19788 -2:2011::DES0600 (**contributor**) or ISO_IEC_19788-2:2011:AMD.1:2016::DES2000 (**contributor**). A MLR record conforming to this application profile cannot use both properties ISO_IEC_19788-2: 2011::DES0200 (**creator**), ISO_IEC_19788-2:2011:AMD.1:2016::DES1600 (**creator**). A MLR record conforming to this application profile cannot use both properties ISO_IEC_19788-2: 2011::DES0600 (**contributor**), ISO_IEC_19788-2:2011:AMD.1:2016::DES2000 (**contributor**). |
| C0003 | A value shall be provided for at least one of these properties: ISO_IEC_19788-2:2011::DES1500 (**rights**) or ISO_IEC_19788-2:2011:AMD.1:2016::DES2300 (**rights**). |

### 6.2.2 Persons data element group specification

| Data element group specification | | | | | | |
|---|---|---|---|---|---|---|
| Identifier (DEGS_Identifier) | ISO_IEC_19788-3:2011:AMD.1:2016::DEGS0004 | | | | | |
| Name (ISO English) | Persons DEGS | | | | | |
| Description | MLR entry level element set designed to provide basic description of *Person* resource class instances. | | | | | |
| Position | DES_Identifier/DEGS_Identifier | Name (ISO English) | Presence type indicator | Repeatability indicator | Order indicator | Order semantic |
| (01) | (02) | (03) | (04) | (05) | (06) | (07) |
| 1 | ISO_IEC_19788-9:2015::DES0200 | name | mandatory | repeatable | unordered | — |

*Page 5, Clause 7*

Replace the entire content of Clause 7 with the following.

### 7.1 Title (MLR-2/DES0100)

| Data element specification | |
|---|---|
| Identifier | ISO_IEC_19788-2:2011::DES0100 |
| **Data element attributes** | |
| Property name | title |
| Definition | name given to the learning resource |
| Linguistic indicator | linguistic |
| Domain | *Learning Resource*<br>(ISO_IEC_19788-1:2011::RC0002) |
| Codomain | *literal* |
| Content value rules | MLR String<br>(ISO_IEC_19788-1:2011::PRS0001) |
| Refines | — |
| Example(s) | 1. 金葉和歌集 (Japanese)<br><br>2. Collection of Golden Leaves (English) |
| Note(s) | 1. The set of values of data elements conforming to this DES is a subset of the values of the element *title* described in ISO 15836:2009, Table 1.<br><br>2. More specific than properties http://purl.org/dc/elements/1.1/title and http://purl.org/dc/terms/title |
| Best practice(s) | — |

### 7.2 Creator (MLR-2/DES0200)

| Data element specification | |
|---|---|
| Identifier | ISO_IEC_19788-2:2011::DES0200 |
| **Data element attributes** | |
| Property name | creator |
| Definition | entity primarily responsible for making the learning resource |
| Linguistic indicator | linguistic |
| Domain | *Learning Resource*<br>(ISO_IEC_19788-1:2011::RC0002) |
| Codomain | *literal* |
| Content value rules | MLR String<br>(ISO_IEC_19788-1:2011::PRS0001) |
| Refines | ISO_IEC_19788-2:2011::DES0600 (contributor) |

| Example(s) | John Doe (English) |
|---|---|
| Note(s) | 1. The set of values of data elements conforming to this DES is a subset of the values of the element *creator* described in ISO 15836:2009, Table 1. |
| | 2. Examples of creator include a natural person, an organization, or a service. Typically, the name of the creator should be used to indicate the entity. |
| | 3. A DES with the same property name (creator), but with non-literal content value, is also provided. See 7.16. |
| | 4. More specific than property http://purl.org/dc/elements/1.1/creator |
| Best practice(s) | Best practice recommends the use of ISO_IEC_19788-2:2011:AMD.1:2016:: DES1600 (creator) instead of ISO_IEC_19788-2:2011::DES0200 (creator) |

### 7.3 Subject (MLR-2/DES0300)

| Data element specification | |
|---|---|
| Identifier | ISO_IEC_19788-2:2011::DES0300 |
| *Data element attributes* | |
| Property name | subject |
| Definition | topic of the learning resource |
| Linguistic indicator | linguistic |
| Domain | *Learning Resource* (ISO_IEC_19788-1:2011::RC0002) |
| Codomain | *literal* |
| Content value rules | MLR String (ISO_IEC_19788-1:2011::PRS0001) |
| Refines | |
| Example(s) | Creutzfeldt-Jakob disease (English) |
| Note(s) | 1. The set of values of data elements conforming to this DES is a subset of the values of the element *subject* described in ISO 15836:2009, Table 1. |
| | 2. To describe the spatial or temporal topic of the learning resource, use the ISO_IEC_19788-2:2011::DES1400 (coverage) element. |
| | 3. The content value of element instances of this data element specification is a keyword or a keyword index from a classification or a controlled vocabulary. |
| | 4. A DES with the same property name (subject), but with non-literal content value, is also provided. See 7.17. |
| | 5. More specific than property http://purl.org/dc/elements/1.1/subject |
| Best practice(s) | — |

### 7.4 Description (MLR-2/DES0400)

| Data element specification | |
|---|---|
| Identifier | ISO_IEC_19788-2:2011::DES0400 |
| *Data element attributes* | |
| Property name | description |
| Definition | account of the learning resource |
| Linguistic indicator | linguistic |
| Domain | *Learning Resource* (ISO_IEC_19788-1:2011::RC0002) |

| Codomain | *literal* |
|---|---|
| Content value rules | *MLR String* (ISO_IEC_19788-1:2011::PRS0001) |
| Refines | — |
| Example(s) | This Java applet shows a car moving with constant acceleration. The green control panel contains text fields where you can vary the values of initial position, initial velocity and acceleration. (English) |
| Note(s) | 1. The set of values of data elements conforming to this DES is a subset of the values of the element *description* described in ISO 15836:2009, Table 1. 2. Description may include, but is not limited to, an abstract, a table of contents, a graphical representation, or a free-text account of the learning resource. 3. The description is a statement of the essential content in the learning resource. 4. A DES with the same property name (description), but with non-literal content value, is also provided. See 7.18. 5. More specific than properties http://purl.org/dc/elements/1.1/description and http://purl.org/dc/terms/description |
| Best practice(s) | — |

## 7.5 Publisher (MLR-2/DES0500)

| Data element specification | |
|---|---|
| Identifier | ISO_IEC_19788-2:2011::DES0500 |
| **Data element attributes** | |
| Property name | publisher |
| Definition | entity responsible for making the learning resource available |
| Linguistic indicator | linguistic |
| Domain | *Learning Resource* (ISO_IEC_19788-1:2011::RC0002) |
| Codomain | *literal* |
| Content value rules | MLR String (ISO_IEC_19788-1:2011::PRS0001) |
| Refines | — |
| Example(s) | British Museum (English) |
| Note(s) | 1. The set of values of data elements conforming to this DES is a subset of the values of the element *publisher* described in ISO 15836:2009, Table 1. 2. Examples of publisher include a natural person, an organization, or a service. Typically, the name of the publisher should be used to identify the entity. 3. A DES with the same property name (publisher), but with non-literal content value, is also provided. See 7.19. 4. More specific than http://purl.org/dc/elements/1.1/publisher |
| Best practice(s) | Best practice recommends the use of ISO_IEC_19788-2:2011:AMD.1: 2016::DES1900 (publisher) instead of ISO_IEC_19788-2:2011::DES0500 (publisher) |

## 7.6 Contributor (MLR-2/DES0600)

| Data element specification | |
|---|---|
| Identifier | ISO_IEC_19788-2:2011::DES0600 |
| *Data element attributes* | |
| Property name | contributor |
| Definition | entity responsible for making contributions to the learning resource |
| Linguistic indicator | linguistic |
| Domain | *Learning Resource* (ISO_IEC_19788-1:2011::RC0002) |
| Codomain | *literal* |
| Content value rules | MLR String (ISO_IEC_19788-1:2011::PRS0001) |
| Refines | — |
| Example(s) | John Smith (English) |
| Note(s) | 1. The set of values of data elements conforming to this DES is a subset of the values of the element *contributor* described in ISO 15836:2009, Table 1. <br><br>2. Examples of a contributor include a natural person, an organization, or a service. Typically, the name of the contributor should be used to indicate the entity. <br><br>3. A DES with the same property name (contributor), but with non-literal content value, is also provided. See 7.20. <br><br>4. More specific than property http://purl.org/dc/elements/1.1/contributor |
| Best practice(s) | Best practice recommends the use of ISO_IEC_19788-2:2011:AMD.1:2016::DES2000 (contributor) instead of ISO_IEC_19788-2:2011::DES0600 (contributor) |

## 7.7 Date (MLR-2/DES0700)

| Data element specification | |
|---|---|
| Identifier | ISO_IEC_19788-2:2011::DES0700 |
| *Data element attributes* | |
| Property name | date |
| Definition | point or period of time associated with an event in the lifecycle of the learning resource |
| Linguistic indicator | non-linguistic |
| Domain | *Learning Resource* (ISO_IEC_19788-1:2011::RC0002) |
| Codomain | *literal* |
| Content value rules | MLR String (ISO_IEC_19788-1:2011::PRS0001) |
| Refines | — |