

# ISO/IEC 19788-1:2011-01 (E)

## Information technology - Learning, education and training - Metadata for learning resources - Part 1: Framework

---

<b>Contents</b>		<b>Page</b>
Foreword .....		v
Introduction .....		vi
<b>1</b>	<b>Scope .....</b>	<b>1</b>
<b>2</b>	<b>Normative references .....</b>	<b>1</b>
<b>3</b>	<b>Terms and definitions .....</b>	<b>2</b>
<b>4</b>	<b>Abbreviated terms .....</b>	<b>6</b>
<b>5.1</b>	<b>A multipart standard .....</b>	<b>6</b>
<b>5.2</b>	<b>Development driven by user requirements .....</b>	<b>6</b>
<b>5.3</b>	<b>Multilingual equivalencies and multicultural requirements support .....</b>	<b>7</b>
<b>5.4</b>	<b>Support for various levels of granularity .....</b>	<b>7</b>
<b>5.5</b>	<b>Re-use of international standards and specifications .....</b>	<b>7</b>
<b>5.6</b>	<b>User extensions .....</b>	<b>7</b>
<b>6</b>	<b>Specification of MLR data elements .....</b>	<b>7</b>
<b>6.1</b>	<b>Introduction .....</b>	<b>7</b>
<b>6.2</b>	<b>Data element specification attributes .....</b>	<b>7</b>
<b>6.3</b>	<b>Data element specification: Matrix template .....</b>	<b>12</b>
<b>6.4</b>	<b>A "Data element specification" example .....</b>	<b>12</b>
<b>7</b>	<b>MLR data elements .....</b>	<b>13</b>
<b>7.1</b>	<b>Data element .....</b>	<b>13</b>
<b>8</b>	<b>Resource class .....</b>	<b>14</b>
<b>8.1</b>	<b>Definition of a Resource class .....</b>	<b>14</b>
<b>8.2</b>	<b>Attributes of a Resource class .....</b>	<b>14</b>
<b>8.3</b>	<b>Example of the definition of a Resource class .....</b>	<b>15</b>
<b>8.4</b>	<b>Predefined Resource classes .....</b>	<b>15</b>
<b>9</b>	<b>Predefined rule sets .....</b>	<b>16</b>
<b>9.1</b>	<b>Introduction .....</b>	<b>16</b>
<b>9.2</b>	<b>MLR string .....</b>	<b>16</b>
<b>9.3</b>	<b>Date .....</b>	<b>17</b>
<b>9.4</b>	<b>Date &amp; Time .....</b>	<b>17</b>
<b>9.5</b>	<b>Duration .....</b>	<b>18</b>
<b>10</b>	<b>Metadata learning resource record .....</b>	<b>18</b>
<b>10.1</b>	<b>Definition of a MLR record .....</b>	<b>18</b>
<b>10.2</b>	<b>Attributes of a MLR record .....</b>	<b>18</b>
<b>11</b>	<b>Data element groups .....</b>	<b>19</b>
<b>11.1</b>	<b>Introduction .....</b>	<b>19</b>
<b>11.2</b>	<b>Data element group .....</b>	<b>19</b>
<b>11.3</b>	<b>Data element group specification attributes .....</b>	<b>19</b>
<b>11.4</b>	<b>Specification of a data element group .....</b>	<b>21</b>
<b>11.5</b>	<b>Tree notation for data element group specifications .....</b>	<b>24</b>

<b>12</b>	<b>Specification of application profiles .....</b>	<b>24</b>
<b>12.1</b>	<b>Introduction .....</b>	<b>24</b>
<b>12.2</b>	<b>Application profile attributes .....</b>	<b>25</b>
<b>12.3</b>	<b>Data element specification in an application profile specification .....</b>	<b>26</b>
<b>12.4</b>	<b>Issues related to vocabularies .....</b>	<b>26</b>
<b>12.5</b>	<b>Specification of an application profile .....</b>	<b>26</b>
<b>13</b>	<b>Rules governing the management and addition of new parts of the multipart MLR .....</b>	<b>27</b>
<b>13.1</b>	<b>Introduction .....</b>	<b>27</b>
<b>13.3</b>	<b>Content of parts specifying data elements .....</b>	<b>27</b>
<b>13.4</b>	<b>Content of parts specifying MLR application profiles .....</b>	<b>29</b>
<b>13.5</b>	<b>Other rules .....</b>	<b>30</b>
<b>Annex A (informative) Clause 3 terms and definitions: ISO French and Chinese .....</b>		<b>31</b>
<b>Annex B (normative) MLR Identifiers .....</b>		<b>46</b>
<b>Annex C (informative) Concept Maps for the MLR-1 .....</b>		<b>49</b>
<b>Bibliography .....</b>		<b>53</b>
<b>Index of Clause 3 terms and definitions .....</b>		<b>54</b>