

Data Definitions for XCRI-CAP 1.2 for Postgraduate Taught Courses

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Abstract

The 'Data Definitions for XCRI-CAP 1.2 for Postgraduate Taught courses' document defines the data content of elements and attributes in XCRI-CAP 1.2 instances produced for aggregation of postgraduate courses by Prospects and other PG aggregating organisations. Its purpose is to assist publishers of XCRI-CAP feeds to produce high quality, interoperable data sets for aggregation of postgraduate courses data.

Status of this document

- 1 This document is version 3.2. Subsequent releases will be published under version control.
- 2 This document should be used alongside the following facilities:
 - [XCRI-CAP 1.2 specification](#)¹, which defines the information model;
 - [XCRI-CAP 1.2 W3C xsd schemas](#)², which provide an XML binding for the specification; these are not exclusive, and other bindings may also be relevant;

Relationship to standards

- 3 The definitions in this document are not normative parts of the XCRI-CAP standard or of BS 8581; other data definitions can represent valid XCRI-CAP 1.2 instances. Compliance with these data definitions will result in production of valid XCRI-CAP 1.2 instances that will also be 'conforming instances' of the Metadata for Learning Opportunities – Advertising (MLO-AD) European Norm ([BS EN 15982](#)).

¹ http://www.xcri.org/wiki/index.php/XCRI_CAP_1.2

² <http://www.w3.org/XML/Schema>

- 4 The XCRI-CAP 1.2 specification (the UK eProspectus standard) describes the composition of an XCRI-CAP 1.2 document in terms of its structural elements and attributes, and the relationships between them.
- 5 This data definition document uses the following additional standards:
- XML: [W3C Extensible Markup Language \(XML\) standard](#)³
 - URI: [IETF RFC 3986](#)⁴
 - Date and time formats: [ISO 8601](#)⁵
 - Language tags: [IETF BCP47](#)⁶
 - Language tags: [ISO 639-1](#)⁷
 - XHTML: <http://www.w3.org/2002/08/xhtml/xhtml1-strict.xsd>⁸
 - UK phone numbers: [National Format Layout](#)⁹
 - Email: [RFC 5322](#)¹⁰
 - [UK national postcode format](#)¹¹

BS 8581

- 6 The British Standard BS 8581 is, at the time of writing, available for purchase. It is in two parts:
- The specification is at: <http://shop.bsigroup.com/ProductDetail/?pid=000000000030259242>
 - The code of practice (guidelines) is at:
<http://shop.bsigroup.com/ProductDetail/?pid=000000000030259244>

³ <http://www.w3.org/TR/2008/REC-xml-20081126/>

⁴ <http://www.ietf.org/rfc/rfc3986.txt>

⁵ http://www.iso.org/iso/support/faqs/faqs_widely_used_standards/widely_used_standards_other/iso8601

⁶ <http://tools.ietf.org/html/bcp47#appendix-A>

⁷ http://en.wikipedia.org/wiki/List_of_ISO_639-1_codes

⁸ <http://www.w3.org/2002/08/xhtml/xhtml1-strict.xsd>

⁹ http://www.ofcom.org.uk/static/archive/oftel/publications/numbering/2003/num_guide.htm#1b

¹⁰ <http://tools.ietf.org/html/rfc5322>

¹¹ http://en.wikipedia.org/wiki/Postcodes_in_the_United_Kingdom

Content of this document

- 7 This is a list of proposed data definitions for the PGT version of XCRI-CAP 1.2. It expands on the version produced for the Course Data Programme in April 2012 (http://www.xcri.co.uk/KbLibrary/XCRI_CAP_Data_Definitions3.0.docx). This document includes guidance on how to implement the data outputs. It is important that this document is used in conjunction with the British Standard BS 8581-1:2012 and BS 8581-2:2012, available from the British Standards Institution.
- 8 HEIs are asked to use the final version of the "Data Definitions for XCRI-CAP 1.2 for Postgraduate Taught courses" as the definitive specification for PGT XCRI-CAP 1.2 data in preference to a summary, because this document contains a higher level of technical detail that is important for production of valid and high quality feeds for use by organisations that aggregate postgraduate courses information.

Quality of data: Please provide as much information as possible in your XCRI-CAP feed. This data specification lists minimum information requirements and focuses on those relevant to Graduate Prospects. Other aggregators will have additional requirements, so we encourage all feed producers to include as many data elements as possible in their feeds.

Conventions and terminology

- 9 This section defines conventions and terms used in this document to present the technical material.
- 10 The terms 'element' and 'attribute' are used in the context of the [W3C Extensible Markup Language \(XML\) standard](#)¹² to define logical structures in XML documents.
- 11 This document recognises three levels of priority for data provision, 'mandatory', 'preferred' and 'optional':
- 'Mandatory' means that if the data item is missing from an instance document, the instance is in error (in other words it is not valid). Mandatory data is associated with the verb 'MUST' in this document.
 - 'Preferred' means that if the data item is missing from an instance document, the instance is valid, but it is strongly recommended that the preferred data is supplied. Preferred data is associated with the verb 'SHOULD' in this document.
 - 'Optional' means that the data item can be freely omitted. Optional data is associated with the verb 'MAY' in this document.

¹² <http://www.w3.org/TR/2008/REC-xml-20081126/>

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General Guidelines

- 12 Supply only information that is relevant to each data item, as specified in this document.
- 13 Data items that are not defined in this document but that are valid against the XCRI-CAP specification can be supplied in an XCRI-CAP instance. These data items may be ignored when the feed is aggregated for the purposes of Prospects' feed collection .
- 14 Normal UK English spelling, grammatical and upper or lower case rules SHOULD be followed, except where definitions prescribe a different format.
- 15 Full stops SHOULD NOT be included at the end of phrases or keywords that are not sentences.
- 16 Numbers SHOULD be entered as Arabic numerals and not as words or Roman numerals, unless the context or common practice dictates otherwise..
- 17 The content of most elements specified in these data definitions will be plain text. The definition of 'plain text' in this context is character data, entity references, and character references. The <description> element and those elements defined as 'common descriptive elements' MAY consist of XHTML instead of plain text.
- 18 Where hypertext web links are used (URLs), these should, where possible, be Cool URIs. See the [Linking You Toolkit](#)¹³ for details.

Character limits (field lengths)

- 19 Recommended maximum numbers of characters are indicated in the Format section of each data item.
- 20 Producers of XCRI-CAP feeds should be aware that consumers MAY truncate elements with lengths greater than the recommended maximum. Character limits given in this document are drawn from the relevant Information Standard Board's Business Data Standard (BDS)¹⁴, with the exception of Common Descriptive Elements and description elements. The recommended limit for the Common Descriptive Elements and description elements is 4,000 characters, including XHTML markup. Producers should be aware that, if content greater than 4,000 characters is supplied, consumers MAY truncate at 4,000 characters. Consumers operating in strict accordance with the ISB's Business Data Standard MAY truncate at 2,000 characters.

Case sensitivity

XML element names and attribute names are case sensitive, as are vocabulary keys and values. For example "<studymode>" is incorrect, the correct version is "<studyMode>"; "Ft" and "Full Time" are both incorrect; the correct versions are "FT" and "Full time".

Special characters

- 21 This document indicates how unusual or special characters outside the 0-9A-Za-z, white space and common punctuation list should be output in XCRI-CAP 1.2 feeds. It does not include a

¹³ <http://lncn.eu/toolkit>

¹⁴ See various Learning Opportunity related BDM Data Standards here: <http://www.education.gov.uk/escs-isb/standardslibrary?page=2>

comprehensive description or resolution of issues to do with character sets, encoding or character references.¹⁵

- 22 It is **STRONGLY RECOMMENDED** that systems use Unicode (UTF-8) encoding throughout the production of XCRI-CAP feed data, so that spurious character substitutions in browsers can be avoided.
- 23 Avoid using unusual or special characters outside the 0-9A-Za-z, white space and common punctuation list. Currently many information systems do not process special characters (including characters in non-English alphabets and non-printable characters) in a way that results in human-readable output that the input might lead one to expect. This issue is expected to decline as most systems adopt UTF-8 and Unicode.

Namespaces

- 24 For use in a W3C schema context, specific namespace declarations are **REQUIRED** for some elements and attributes. The namespaces used in the main XCRI-CAP schemas are given in the table below. The stated Common Abbreviation is as used by convention in the current versions of the schemas and many instance files. They are also used in examples in this document; where no Common Abbreviation is used, the <http://xcri.org/profiles/1.2/catalog> should be assumed. The abbreviation for the namespace is defined within an individual file, so it is not necessary to use the Common Abbreviations stated here.
- 25 As part of the postgraduate data programme, prospects.ac.uk have become the official host for XCRI-CAP schemas. Prospects have also published a modified version of the XCRI-CAP 1.2 schema specifically for postgraduate data; <http://schema.prospects.ac.uk/xcricap12.xsd>. This will be stricter in a number of areas: chiefly, some elements which are optional will become mandatory for postgraduate data.
- 26 Specific vocabularies and refinements for use with postgraduate data are included in this document. For ease of use, we have added these refinements to the current schemas stored as noted above, so that producers do not have to use different filenames for schemas. Changes are documented in the schemas themselves and in this document.

¹⁵ For a reasonably accessible starting point for such issues, refer to http://en.wikipedia.org/wiki/Character_entity_reference. For technical references, refer to: <http://www.w3.org/TR/REC-xml/#sec-references>

Table 1: Namespaces used in XCRI-CAP schemas

Description	Namespace	Common Abbreviation
XCRI-CAP 1.2	http://xcri.org/profiles/1.2/catalog	xcric (or none, if default namespace)
XCRI-CAP 1.2 Terms	http://xcri.org/profiles/1.2/catalog/terms	xcricTerms
Metadata for Learning Opportunities	http://purl.org/net/mlo	mlo
Simple Dublin Core	http://purl.org/dc/elements/1.1/	dc
Qualified Dublin Core	http://purl.org/dc/terms/	dcTerms
XHTML	http://www.w3.org/1999/xhtml	xhtml
W3C xml	http://www.w3.org/2001/XMLSchema	xs
Basic XML namespace	http://www.w3.org/XML/1998/namespace	
Credit model	http://purl.org/net/cm	credit
Course Data Programme	http://xcric.co.uk	courseDataProgramme

- 27 Some vocabularies or related additional data may require additional namespaces, for example for geolocation searching. These namespace declarations have been included in the Comments section and are repeated here for convenience. In this edition only geolocation is included.

Table 2: Additional recommended namespaces

Description	Namespace	Common Abbreviation
Geolocation using latitude and longitude	http://www.w3.org/2003/01/geo/wgs84_pos#	Geo

Licensing of XCRI-CAP feeds

- 28 This document recommends that all XCRI-CAP feeds are explicitly licensed under an Open Government Licence (OGL)¹⁶. This licence grants to the user a worldwide, royalty-free, perpetual, non-exclusive licence to use the information, while providing for acknowledgement of the source of the information. This licence contains no warranty or liability on the provider, and importantly also includes specific non-endorsement clauses. The OGL licence is similar to a Creative Commons licence, but attribution is only needed if the copyright holder makes it a requirement. Where multiple providers are involved, an optional generic statement that 'public sector information' is included, rather than a specific attribution, can be used.
- 29 It is important that data publishers are familiar with the terms of the OGL for the avoidance of doubt about how the information may be used and the constraints placed on any user. The JISC sponsored document "Licensing Open data: A Practical Guide" June 2011¹⁷ provides a sound overview of the licence landscape.
- 30 The following information about the licence attached to the data should be included in the description element of the catalog element:
- Name of the licence, for example 'Open Government Licence (OGL)'
 - Version number of the licence
 - Owner of the licence, for example 'University of Test'

¹⁶ See <http://www.nationalarchives.gov.uk/doc/open-government-licence/>

¹⁷ http://discovery.ac.uk/files/pdf/Licensing_Open_Data_A_Practical_Guide.pdf

Elements and attributes

- 31 The details of each element and attribute (collectively 'data items') are grouped together alphabetically under the core elements of the XCRI-CAP 1.2 specification: catalog, provider, course, presentation, qualification and credit. The core elements are grouped according to their order in the XCRI-CAP specification.
- 32 Each section starts with the definition of the core element.
- 33 Each data item has:
 - Hierarchical position in the XML instance (for example: catalog >> provider >> course)
 - Data item type – element or attribute
 - Name – label to identify the data item
 - Namespace – URI of the namespace of the element
 - Description – text describing the expected content of the data item
 - Format – type of data, character limit, technical restrictions, any vocabulary or coding scheme that is to be used – this may reference an external source
 - Optionality – whether the data item is mandatory, preferred, optional and / or multiple
 - Parent – parent element
 - Children – list of direct child elements
 - Attributes – for elements, a list of any attributes
 - Example – an example of the data item
 - Comments – any additional information about the data item
- 34 To save space, some Common Elements and Common Descriptive Elements are grouped separately. Where there are specific additional requirements for these data items within a core element, they are listed additionally under that core element.
- 35 Where an element has attributes, these are defined immediately after the element.

Common Elements

- 36 The XCRI-CAP specification permits the use of the following set of Common Elements in each of the core elements. In these Data Definitions it is necessary to supply only a sub-set of the Common Elements. See the core element sections for details of usage in that context.
 - hasPart
 - isPartOf
 - contributor
 - date
 - description
 - identifier
 - image
 - subject
 - title
 - type
 - url

contributor

Element	Name: contributor	Namespace: http://purl.org/dc/elements/1.1/
Description	An organisation, group or individual responsible for making contributions to the resource.	
Format	Plain text	
Optionality	Optional	
Parent	See core element sections.	
Children	None	
Attributes	None	

date

The **date** element MUST NOT be used. Instead use the **start** element and the other temporal elements defined in this document: **end**, **applyFrom**, and **applyUntil**.

description

Element	Name: description	Namespace: http://purl.org/dc/elements/1.1/
See description element in core element sections.		

hasPart

Element	Name: hasPart	Namespace: http://purl.org/net/mlo
Description	Text about relationship between the resource and a child resource.	
Format	Plain text (see Comments)	
Optionality	Optional (see Comments)	
Parent	See core element sections.	
Children	None (see Comments)	
Attributes	None (see Comments)	
Comments	This element is currently unstructured. It is envisaged that implementers may wish to define structures for this element, so that it can be used to describe how the core element relates to a child element. For example this element might contain an identifier and a type of relationship. Also see specific element under Provider.	

identifier

Element	Name: identifier	Namespace: http://purl.org/dc/elements/1.1/
See identifier element in core element sections.		

image

Element	Name: image	Namespace: http://xcrl.org/profiles/1.2/catalog
Description	An image element is used to enable images to be displayed by a service.	
Format	If images are included, a Producer SHOULD offer images in a standard format, such as PNG, GIF and JPEG. The element content MUST be empty; the image is defined within its attributes.	

Optionality	Optional; zero or one
Parent	See core element sections.
Children	None
Attributes	src, title, alt
Examples	<dc:image src="http://myUni.ac.uk/courses/A101/logo.png" title="Study XCRI" alt="Logo for the XCRI course"/>
Comments	A typical image might be an organisation's logo, drawn from its website.

Attributes of image

src

Attribute	Name: src
Description	Identifies the location of the image on the internet.
Format	The content MUST conform to a URI as in IETF RFC 3986 .
Optionality	Mandatory
Examples	See element.

title

Attribute	Name: title
Description	The name of an image, such as could be used as a caption.
Format	Plain text
Optionality	Optional
Examples	See element.

alt

Attribute	Name: alt
Description	Alternative text to display if the image cannot be rendered. While @alt is strictly optional, a Producer SHOULD provide meaningful alternative text.
Format	Plain text
Optionality	Preferred
Examples	See element
Comments	None

isPartOf

Element	Name: isPartOf	Namespace: http://purl.org/net/mlo
Description	Text about relationship between the resource and a parent resource.	
Format	Plain text (see Comments)	
Optionality	Optional (see Comments)	
Parent	See core element sections.	
Children	None (see Comments)	

Attributes	None (see Comments)
Comments	This element is currently unstructured. It is envisaged that implementers may wish to define structures for this element, so that it can be used to describe how the core parent element relates to another element. For example this element might contain an identifier and a type of relationship. Also see specific element under Course.

subject

Element	Name: subject	Namespace: http://purl.org/dc/elements/1.1/
See subject element in core element sections.		

title

Element	Name: title	Namespace: http://purl.org/dc/elements/1.1/
See title element in core element sections.		

type

Element	Name: type	Namespace: http://purl.org/dc/elements/1.1/
See type element in core element section.		

url

Element	Name: url	Namespace: http://purl.org/net/mlo
See url element in core element section.		

Core elements: General Information

The core elements in XCRI-CAP 1.2 are catalog, provider, course, presentation, qualification and credit. Location is slightly different, because it can occur within the context of a provider as an entity offering courses, or within the context of a provider as an entity relating to the venue of presentations. The relationship between the core elements is shown in Figure 1.

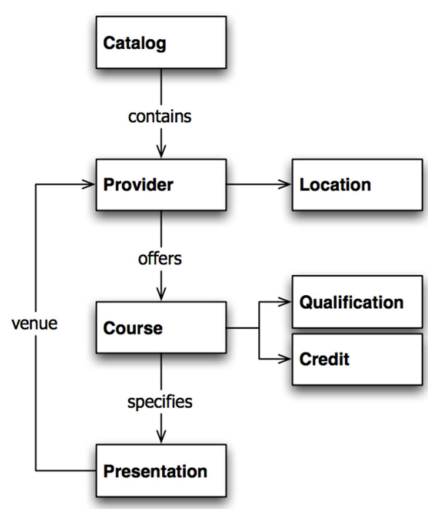


Figure 1: XCRI-CAP 1.2 Information Model

Elements by core element: catalog

catalog

Element	Name: catalog	Namespace: http://xcri.org/profiles/1.2/catalog
Description	Root element. Holds all the data in the XCRI-CAP feed.	
Format	Valid XML instance conforming or strictly conforming to the XCRI-CAP 1.2 specification. See section 4 (Conformance) of BS 8581, the XCRI-CAP standard.	
Optionality	Mandatory; one and only one	
Parent	Not applicable	
Children	description (preferred) contributor (optional) provider (mandatory) All other Common Elements MAY be included.	
Attributes	generated (mandatory)	
Examples	Sample XCRI-CAP 1.2 example file: PG_Generic_XCRI-CAP-1.2.xml	
Comments	The catalog element does not imply a relationship between the XCRI-CAP document and a course catalog. A catalog does not necessarily relate to a concept of a catalog in an originating or consuming system, but rather provides the context for the content of the XCRI-CAP document.	

Attributes of catalog

generated

Attribute	Name: generated
Description	The date and time at which the catalog was generated
Format	The content MUST comply with date and time format for ISO 8601. YYYY-MM-DDThh:mm:ssZ
Optionality	Mandatory
Examples	2013-12-21T17:45:00Z
Comments	This element means the current date-time at which the catalog was created, so does not necessarily indicate that anything has changed in the feed. It indicates to the aggregator whether or not the feed has already been collected and when. An aggregator may ignore the feed if the value here is the same as the previously read value.

contributor

catalog >> contributor

Element	Name: contributor	Namespace: http://purl.org/dc/elements/1.1/
Description	An organisation, group or individual responsible for making contributions to the resource.	
Format	Plain text	
Optionality	Optional	
Parent	catalog	
Children	None	
Attributes	None	

description

catalog >> description

Element	Name: description	Namespace: http://purl.org/dc/elements/1.1/
Description	Textual description of the coverage of the catalog, its provenance, status, licensing arrangements and similar information to guide an aggregator	
Format	Plain text; max: 4,000 characters	
Optionality	Preferred	
Parent	Catalog	
Children	None	
Attributes	None	
Examples	<dc:description>Continuing Professional Development (CPD) courses offered by the Department of Management, University of Poppleton. Updated daily. Licence: Open Government Licence (OGL), v1.0</dc:description>	

*Attributes of description**xml:lang*

Attribute	Name: xml:lang
Description	The language used for the description
Format	A valid language tag according to the IETF BCP47 specification, using 2-character ISO 639-1 codes. 2-character ISO 639-1 codes; default 'en'
Optionality	Optional; if not present, then consumers MUST assume that the language of the element is English.
Examples	<dc:description xml:lang="en"> <dc:description xml:lang="cy"> <dc:description xml:lang="fr">
Comments	There is a range of ISO 639 coding systems. This document has opted for the simplest. Namespace: xml="http://www.w3.org/XML/1998/namespace"

href

Attribute	Name: href
Description	A URL linking to general textual information about the parent element.
Format	The content MUST conform to a URI as in IETF RFC 3986 .
Optionality	If element is empty, then href is mandatory; otherwise MUST NOT be used.
Comments	href SHOULD be a cool URI ¹⁸ that resolves appropriately to human-readable text for browsers. For advice on cool URIs, see http://lincn.eu/toolkit/recommendations .

*provider*catalog >> **provider**

Element	Name: provider	Namespace: http://xcri.org/profiles/1.2/catalog
See provider Core Element .		

*Elements by core element: provider**provider*catalog >> **provider**

Element	Name: provider	Namespace: http://xcri.org/profiles/1.2/catalog
Description	Holds the data relating to the learning opportunity provider and all the courses data. A provider is any organisation, component of an organisation or partnership that offers one or more learning opportunities.	

¹⁸ <http://linkingyou.blogs.lincoln.ac.uk/2011/04/19/all-recommendations-lead-back-to-cool-uris/>

Format	MUST contain the mandatory elements and MAY contain the other elements as specified in children below. MAY also contain other elements conforming or strictly conforming to the XCRI-CAP 1.2 specification.
Optionality	Mandatory; one and only one
Parent	catalog
Children	course (mandatory) description (optional) hasPart (mandatory for Postgraduate Collection) identifier (mandatory) location (mandatory) title (mandatory) url (mandatory)
Attributes	None
Examples	See sample XCRI-CAP 1.2 example file: PG_Generic_XCRI-CAP-1.2.xml.
Comments	Provider is mandatory in this data specification, though it is optional in the XCRI-CAP 1.2 standard. Also each feed must contain only one provider, which will usually be the university or college offering the courses. If multiple providers are involved in offering the course, this should be indicated in the course <description> element, together with a description of the relationship between the providers. Such courses may be repeated in each provider's XCRI-CAP feed.

course

catalog >> provider >> **course**

Element	Name: course	Namespace: http://xcri.org/profiles/1.2/catalog
See course Core Element .		

description (provider context)

catalog >> provider >> **description**

Element	Name: description	Namespace: http://purl.org/dc/elements/1.1/
Description	General textual information about the provider and its facilities. May include more complex details about how enquiries are made than the <location> element, for example how to obtain prospectuses, contact details for international students and so on.	
Format	One of the following: • Plain text content; when content is short and unstructured • Valid XHTML 1.0 content; when preservation of the text formatting is important Max: 4,000 characters, including markup	
Optionality	Optional; zero or one in a single language; multiple permitted to enable information in more than one language	
Parent	provider	

Children	If XHTML is used, MUST have XHTML child elements; see: http://www.w3.org/2002/08/xhtml/xhtml1-strict.xsd . Otherwise none.
Attributes	lang ; href .
Comments	Safe use of XHTML: See section on Security Considerations in the BS 8581, XCRI-CAP standard for guidance. This information is likely to be defined more closely in terms of length and content by communities of practice, as content length and complexity depends on the aggregating systems.

hasPart (provider context)

catalog >> provider >> **hasPart**

Element	Name: hasPart	Namespace: http://purl.org/net/mlo
Description	Name of a provider's organisational sub-component that owns one or more courses.	
Format	Plain text (see Comments) Use 'and' not '&', and spell out each word – 'department' not 'dept'.	
Optionality	Mandatory for Postgraduate Collection. MUST be used in multiple occurrences to include all organisational sub-components that own one or more courses.	
Parent	provider	
Children	None	
Attributes	None	
Examples	<mlo:hasPart>School of Engineering and Information Technology</mlo:hasPart>	
Comments	Use one element to denote each department, school or faculty. Only one level of structure is permitted, but any mix of departments, schools and faculties can be included. The content of this element is used to match exactly with the isPartOf element in course elements.	

identifier (provider context)catalog >> provider >> **identifier**

Element	Name: identifier	Namespace: http://purl.org/dc/elements/1.1/
Description	An unambiguous reference to the provider.	
Format	Structures MUST NOT contain more than one identifier without an explicitly-defined encoding scheme, and this MUST be a URI, and the content MUST conform to a URI as in IETF RFC 3986. This element MUST use the Dublin Core Namespace: http://purl.org/dc/elements/1.1/ One of the identifiers MUST be a URI as specified above. Max: 50 characters	
Optionality	Mandatory; at least one Minimum provider identifier MUST be a URI. Other identifiers are encouraged, as long as they are defined with an encoding scheme, for example, a UK Provider Reference Number (ukprn) ¹⁹ , qualified using xsi:type to a specific identifier namespace.	
Parent	provider	
Children	None	
Attributes	xsi:type (for namespace-based encoding schemes)	
Examples	<dc:identifier> http://www.myUni.ac.uk/ </dc:identifier> <dc:identifier xsi:type="courseDataProgramme:ukprn">12345678</dc:identifier>	
Comments	Explicitly-defined encoding schemes will need namespaces unless defined within an existing XCRI-CAP namespace, for example via http://xcri.co.uk , which is defined in the Course Data Programme schema ²⁰ .	

location (provider context)catalog >> provider >> **location**

Element	Name: location	Namespace: http://purl.org/net/mlo
Description	Holds information about the spatial location of the provider. It contains the official address for administrative enquiries and the geographical location of the main site of the organisation.	
Format	MUST contain the mandatory elements and MAY contain the other elements as specified in children below.	
Optionality	Mandatory; one and only one	
Parent	provider	

¹⁹ See <http://www.ukrlp.co.uk/>.²⁰ <http://www.xcri.co.uk/bindings/courseDataProgramme.xsd>

Children	address (mandatory) email (mandatory for Postgraduate Collection) fax (optional) phone (mandatory) postcode (mandatory) town (mandatory for Postgraduate Collection) url (optional)
Attributes	None
Examples	<pre> <mlo:location> <mlo:town>Bradford</mlo:town> <mlo:postcode>BD7 1DP</mlo:postcode> <mlo:address>Richmond Road</mlo:address> <mlo:address>Bradford</mlo:address> <mlo:address>West Yorkshire</mlo:address> <mlo:phone>0800 073 1225</mlo:phone> <mlo:email>course-enquiries@bradford.ac.uk</mlo:email> <mlo:url>http://www.myUni.ac.uk/directions</mlo:url> </mlo:location> </pre>

address (provider context)

catalog >> provider >> location >> **address**

Element	Name: address	Namespace: http://purl.org/net/mlo
Description	Specifies the geographical or spatial location of the provider's main administrative site	
Format	More than one set of different valid formats MAY be used. Each set that is not a postal address MUST use an explicitly-defined encoding scheme. Postal address: there MUST be one set of address elements that has no encoding scheme, and this set of address elements MUST consist of the sequential lines of the official postal address (except for the name of the institution and the postcode), so that these elements can be combined with the <postcode> element to form the full postal address. Each postal address line must be contained in its own <address> element. The postal address elements must be ordered so that the sequence in the document will generate successive postal address lines. Geo-location encoding: latitude and longitude MAY be indicated in address elements, using an additional encoding scheme (see examples).	
Optionality	Mandatory; at least one set of which MUST be postal address.	
Parent	location	
Children	None	
Examples	<pre> <mlo:postcode>MK7 6BJ</mlo:postcode> <mlo:address>PO Box 197</mlo:address> <mlo:address>Milton Keynes</mlo:address> <mlo:postcode>NG7 2NR</mlo:postcode> <mlo:address>Kings Meadow Campus</mlo:address> <mlo:address>Nottingham</mlo:address> <mlo:address xsi:type="geo:lat">-123.7</mlo:address> <mlo:address xsi:type="geo:long">54</mlo:address> </pre>	
Comments	Namespace for 'geo': http://www.w3.org/2003/01/geo/wgs84_pos#	

emailcatalog >> provider >> location >> **email**

Element	Name: email	Namespace: http://purl.org/net/mlo
Description	Email address of the provider's main administrative site	
Format	Up to 254 characters; local-part@domain as formally defined in RFC 5322 .	
Optionality	Mandatory for Postgraduate Collection; one and one only	
Parent	location	
Children	None	
Examples	general_enquiries@myuni.ac.uk	
Comments	Standard email address format is important here, as validators are likely to validate this element. This means that a link to a web form MUST NOT be used.	

faxcatalog >> provider >> location >> **fax**

Element	Name: fax	Namespace: http://purl.org/net/mlo
Description	Fax number of the provider's main administrative site	
Format	UK National Format Layout (Area Code and Number) as prescribed by Ofcom Or The conventional method for describing phone numbers internationally (see example).	
Optionality	Optional; zero or one	
Parent	location	
Children	None	
Examples	01632 496496	
Comments	Consumers should note that incorrectly formatted fax numbers MUST NOT invalidate an instance.	

phonecatalog >> provider >> location >> **phone**

Element	Name: phone	Namespace: http://purl.org/net/mlo
Description	Main telephone number of the provider's main administrative site	
Format	UK National Format Layout (Area Code and Number) as prescribed by Ofcom Or The conventional method for describing phone numbers internationally (see example).	
Optionality	Mandatory; one and only one	
Parent	location	
Children	None	

Examples	01632 496496 +44 (0)161 277 5000
Comments	Consumers should note that incorrectly formatted phone numbers MUST NOT invalidate an instance.

postcode (provider context)

catalog >> provider >> location >> **postcode**

Element	Name: postcode	Namespace: http://purl.org/net/mlo
Description	Full official postcode of the address of the provider's main site	
Format	Between 2 and 4 characters: (one or two letters)(number between 0 and 99)(zero or one letter) space 3 characters: (single digit)(two letters) Max: 8 characters	
Optionality	Mandatory; one and only one	
Parent	location	
Children	None	
Attributes	None	
Examples	M1 1AA, B33 8TH, CR2 6XH, DN55 1PT, W1A 1HQ, EC1A 1BB	
Comments	Used as the final part of the UK postal address, combined with address elements.	

town

catalog >> provider >> location >> **town**

Element	Name: town	Namespace: http://purl.org/net/mlo
Description	The name of the town or city in which the provider's main site is situated. Its purpose is for use with software functionality that requires a town or city for searching. This is not part of the postal address.	
Format	Plain text with first letter of each word upper case, the remainder lower case Max: 50 characters	
Optionality	Mandatory for Postgraduate Collection	
Parent	location	
Children	None	
Attributes	None	
Examples	<mlo:town>Stroud</mlo:town>	
Comments	This is not part of the postal address, for which see the address element. This element might be used by information systems for geographical searching.	

urlcatalog >> provider >> location >> **url**

Element	Name: url	Namespace: http://purl.org/net/mlo
Description	A URL with information relating to the location of the provider, for example a map or directions	
Format	The content MUST conform to a URI as in IETF RFC 3986 .	
Optionality	Optional; zero or one	
Parent	location	
Children	None	
Attributes	None	
Examples	<mlo:url> http://www.myUni.ac.uk/directions </mlo:url>	
Comments	It is recommended that the URI or URL resolves to human-readable content for browsers, and machine-readable content for automatic data services (see Cool URIs ²¹).	

title (provider context)catalog >> provider >> **title**

Element	Name: title	Namespace: http://purl.org/dc/elements/1.1/
Description	Trading name of the provider	
Format	Plain text using title case	
Optionality	Mandatory; one and only one Max: 255 characters	
Parent	provider	
Children	None	
Attributes	lang.	
Examples	<dc:title>University of Gloucestershire</dc:title>	
Comments	Multiple titles are permitted in the XCRI-CAP 1.2 standard. However, this data specification does not offer a means of differentiating between multiple titles. Therefore one and only one title is mandated, and it must be the trading name of the provider.	

url (provider context)catalog >> provider >> **url**

Element	Name: url	Namespace: http://purl.org/net/mlo
Description	The URL of the main web page of the provider	
Format	The content MUST conform to a URI as in IETF RFC 3986 .	
Optionality	Mandatory; one and only one	

²¹ <http://linkingyou.blogs.lincoln.ac.uk/2011/04/19/all-recommendations-lead-back-to-cool-uris/>

Parent	provider
Children	None
Attributes	None
Examples	<mlo:url>http://www.myUni.ac.uk/</mlo:url>
Comments	It is recommended that the URI or URL resolves to human-readable content for browsers, and machine-readable content for automatic data services (see Cool URIs ²²). Feeds SHOULD use the url element even if the URL is given as an identifier, because aggregators might use this element for the specific purpose of linking to the provider's website.

Elements by core element: course

course

catalog >> provider >> **course**

Element	Name: course	Namespace: http://xcri.org/profiles/1.2/catalog
Description	Holds the data relating to the learning opportunity. Feeds must include all offered courses that the HEI wishes to market via their XCRI-CAP feed.	
Format	MUST contain the mandatory elements and MAY contain the other elements as specified in children below. MAY also contain other elements conforming or strictly conforming to the XCRI-CAP 1.2 specification.	
Optionality	Mandatory; at least one (not mandatory for venue provider element)	
Parent	provider	

²² <http://linkingyou.blogs.lincoln.ac.uk/2011/04/19/all-recommendations-lead-back-to-cool-uris/>

Children	Common Descriptive Elements: abstract (preferred) applicationProcedure (optional) assessment (optional) learningOutcome (optional) objective (optional) prerequisite (mandatory for Postgraduate Collection) regulations (optional) credit (optional) description (mandatory for Postgraduate Collection) identifier (mandatory) isPartOf (mandatory for Postgraduate Collection) presentation (mandatory for Postgraduate Collection) qualification (mandatory if course leads to award of a qualification; otherwise do not use) subject (mandatory) title (mandatory) type (mandatory for Postgraduate Collection; 2 elements) url (preferred)
Attributes	None
Examples	See sample XCRI-CAP 1.2 example file: PG_Generic_XCRI-CAP-1.2.xml.
Comments	Course is mandatory in this data specification, though it is optional in the XCRI-CAP 1.2 standard.

Common Descriptive Elements

- 37 There are 7 common descriptive elements in XCRI-CAP 1.2, as listed below. The abstract element SHOULD be supplied in the course element. Prerequisite MUST be supplied in the course element in postgraduate data. Any of the other 5 elements MAY be supplied in course elements and / or presentation elements.
- abstract
 - applicationProcedure
 - assessment
 - learningOutcome
 - objective
 - prerequisite
 - regulations
- 38 All common descriptive elements are 'inheritable'. Inheritable elements are elements whose content can be inferred within child elements from a parent element. This enables documents to be less verbose by not repeating basic information. The following example illustrates how this is implemented.

```

<course>
...
  <mlo:objective>This course is aimed at providing a basic competence in electrical
  engineering</mlo:objective>
  <presentation>
    ...
  </presentation>
  <presentation>
    ...
    <mlo:objective>This course is aimed at providing a basic competence in electrical engineering with the
    specific aim of progressing to a professional qualification</mlo:objective>
  </presentation>
</course>

```

The first presentation does not have an explicit `<mlo:objective>` element, therefore its objective can be inferred from the course element. A consuming system can use the course objective for this presentation if needed. The second presentation has a modified objective, so it contains an explicit `<mlo:objective>` element, and a consuming system must use this one and not the one at course level.

- 39 If any of the 7 common descriptive elements are used, they **MUST** be included in the course element and not repeated in the presentation element. They **SHOULD** be included in the presentation element, only if the information is different from that included in the course element.

Although for curriculum management or curriculum design purposes you might want to exchange individual learning outcome items or individual assessment items, it is most likely in the course marketing domain that we want only one such element. Therefore each of the learningOutcome and assessment data items **SHOULD** be implemented as single elements rather than as multiples, except where information in more than one language is required.

abstract

catalog >> provider >> course >> **abstract**

Element	Name: abstract	Namespace: http://xcri.org/profiles/1.2/catalog
Description	A short one-sentence description for use in a course list	
Format	Up to 140 characters of plain text	
Optionality	Preferred; zero or one in a single language; multiple permitted to enable information in more than one language	
Parent	course or presentation	
Children	None	
Attributes	lang ; href .	
Examples	<abstract>If you've ever considered writing a novel or short stories, this practical introduction to writing fiction will get you started.</abstract>	
Comments	The abstract will normally be included in the course element not the presentation element.	

applicationProcedure

catalog >> provider >> course >> **applicationProcedure**

Element	Name: applicationProcedure	Namespace: http://xcri.org/profiles/1.2/catalog
Description	Text describing how to apply for the learning opportunity.	

Format	One of the following: • Empty; when the href attribute contains a URL linking to the information • Plain text content; when content is short and unstructured • Valid XHTML 1.0 content; when preservation of the text formatting is important Max: 4,000 characters including markup
Optionality	Optional; zero or one in a single language; multiple permitted to enable information in more than one language
Parent	course or presentation
Children	If XHTML is used, MUST have XHTML child elements; see: http://www.w3.org/2002/08/xhtml/xhtml1-strict.xsd . Otherwise none.
Attributes	lang ; href .
Examples	<applicationProcedure>You can register online using the 'click to register' button in the online prospectus, http://www.myUni.ac.uk/prospectus . </applicationProcedure>
Comments	See text at section start.

assessment

catalog >> provider >> course >> **assessment**

Element	Name: assessment	Namespace: http://purl.org/net/mlo
Description	Text describing the broad approach to assessment used in the learning opportunity	
Format	One of the following preferred: • Plain text content; when content is short and unstructured • Valid XHTML 1.0 content; when preservation of the text formatting is important Max: 4,000 characters including markup If this format is not possible, leave the element empty and use the href attribute to contain a URL linking to the information.	
Optionality	Optional; zero or one in a single language; multiple permitted to enable information in more than one language	
Parent	Course or presentation	
Children	If XHTML is used, MUST have XHTML child elements; see: http://www.w3.org/2002/08/xhtml/xhtml1-strict.xsd . Otherwise none.	
Attributes	lang , [href (see Format)]	
Examples	<mlo:assessment>Assessment is by one 5,000-word essay for each module and the dissertation.</mlo:assessment>	

learningOutcome

catalog >> provider >> course >> **learningOutcome**

Element	Name: learningOutcome	Namespace: http://xcri.org/profiles/1.2/catalog
Description	Text describing the learning outcomes for a course of study.	

Format	One of the following: • Empty; when the href attribute contains a URL linking to the information • Plain text content; when content is short and unstructured • Valid XHTML 1.0 content; when preservation of the text formatting is important Max: 4,000 characters including markup
Optionality	Optional; zero or one in a single language; multiple permitted to enable information in more than one language
Parent	course or presentation
Children	If XHTML is used, MUST have XHTML child elements; see: http://www.w3.org/2002/08/xhtml/xhtml1-strict.xsd . Otherwise none.
Attributes	lang ; href .
Examples	<pre><learningOutcome><div xmlns="http://www.w3.org/1999/xhtml">At the end of this unit you should be able to: Describe what XCRI-CAP is and its importance in relation to course advertising information within your institution. Outline a generic business case for XCRI-CAP. Analyse your institution's position in respect of course advertising information management on the basis of your existing knowledge of institutional processes. </div></learningOutcome></pre>
Comments	See text at section start.

objective

catalog >> provider >> course >> **objective**

Element	Name: objective	Namespace: http://purl.org/net/mlo
Description	Text describing aims or learning objectives of the learning opportunity	
Format	One of the following: • Empty; when the href attribute contains a URL linking to the information • Plain text content; when content is short and unstructured • Valid XHTML 1.0 content; when preservation of the text formatting is important Max: 4,000 characters including markup	
Optionality	Optional; zero or one in a single language; multiple permitted to enable information in more than one language	
Parent	course or presentation	
Children	If XHTML is used, MUST have XHTML child elements; see: http://www.w3.org/2002/08/xhtml/xhtml1-strict.xsd . Otherwise none.	
Attributes	lang ; href .	
Examples	<pre><mlo:objective href="http://www.myUni.ac.uk/courses/A101/objective.htm"/></pre>	
Comments	See text at section start.	

prerequisite

catalog >> provider >> course >> **prerequisite**

Element	Name: prerequisite	Namespace: http://purl.org/net/mlo
Description	Textual description of the entry requirements (academic and / or non-academic, formal or informal) for entry to a learning opportunity	
Format	One of the following: • Plain text content; when content is short and unstructured • Valid XHTML 1.0 content; when preservation of the text formatting is important Max: 4,000 characters including markup If this format is not possible, leave the element empty and use the href attribute to contain a URL linking to the information.	
Optionality	Mandatory for Postgraduate Collection; multiple permitted to enable information in more than one language	
Parent	course	
Children	If XHTML is used, MUST have XHTML child elements; see: http://www.w3.org/2002/08/xhtml/xhtml1-strict.xsd . Otherwise none.	
Attributes	lang ,	
Examples	<pre><mlo:prerequisite><div xmlns="http://www.w3.org/1999/xhtml">Current registration with the General Pharmaceutical Council (GPhC)A Postgraduate Diploma or Postgraduate Master's qualification related to pharmaceutical practice (or equivalent). Experienced practitioners with at least three to five years' post-qualifying experience will also be consideredAgreement by your employer to pay the fees and to provide financial support for the duration of the registration. Students who plan to pay their own fees must provide evidence that their employer supports their application<p>IELTS at 6.0 or the equivalent.</p></div></mlo:prerequisite></pre>	

regulations

catalog >> provider >> course >> **regulations**

Element	Name: regulations	Namespace: http://xcri.org/profiles/1.2/catalog
Description	Textual description of the organisation's academic and administrative regulations relevant to a learning opportunity	
Format	One of the following: • Empty; when the href attribute contains a URL linking to the information • Plain text content; when content is short and unstructured • Valid XHTML 1.0 content; when preservation of the text formatting is important Max: 4,000 characters including markup	
Optionality	Optional; zero or one in a single language; multiple permitted to enable information in more than one language	
Parent	course or presentation	
Children	If XHTML is used, MUST have XHTML child elements; see: http://www.w3.org/2002/08/xhtml/xhtml1-strict.xsd . Otherwise none.	
Attributes	lang ; href .	

Examples	<regulations href="http://www.myUni.ac.uk/courses/A101/A101_regulations.pdf"/>
Comments	See text at section start.

credit

catalog >> provider >> course >> **credit**

Element	Name: credit	Namespace: http://purl.org/net/mlo
See credit Core Element .		

description (course context)

catalog >> provider >> course >> **description**

Element	Name: description	Namespace: http://purl.org/dc/elements/1.1/
Description	General summary of the course	
Format	One of the following: • Plain text content; when content is short and unstructured • Valid XHTML 1.0 content; when preservation of the text formatting is important Max: 4,000 characters including markup If this format is not possible, leave the element empty and use the href attribute to contain a URL linking to the information.	
Optionality	Mandatory for Postgraduate Collection; multiple permitted to enable information in more than one language	
Parent	course	
Children	If XHTML is used, MUST have XHTML child elements; see: http://www.w3.org/2002/08/xhtml/xhtml1-strict.xsd . Otherwise none.	
Attributes	lang , [href (see Format)]	
Examples	<dc:description> The MSc will draw together critical components such as the contribution of climate change, and the role of biodiversity, water, soil, land use, labour, nutrition transition and urbanisation. Students will take eight core modules and a number of optional modules. There will also be an individual research project, placement or dissertation. </dc:description>	
Comments	Safe use of XHTML: See section on Security Considerations in the BS 8581, XCRI-CAP standard for guidance.	

Types of description

The description element can be refined by using pre-declared xsi:type attributes. The vocabulary for these attributes is defined in the XCRI-CAP Terms namespace (<http://xcri.org/profiles/1.2/catalog/terms>), using the XCRI-CAP Terms schema (http://schema.prospects.ac.uk/xcricap/terms_1_2.xsd), and extended by the <http://xcrico.uk> namespace using the Course Data Programme schema (<http://schema.prospects.ac.uk/xcricoursedataprogramme.xsd>) The format for these description elements is the same, as specified below. The following vocabulary items can be used:

xsi:type reference , using xcricTerms and	Definition
--	------------

courseDataProgramme as namespace abbreviations	
xcritTerms:careerOutcome	Used to specify career outcomes for a course of study
xcritTerms:contactHours	Used to specify the number and style of contact hours that a learner should expect on a course of study
xcritTerms:contactPattern	Used to specify the style of contact that a learner would receive on a course of study
xcritTerms:events	Used to specify events relevant to a course of study, such as open days
xcritTerms:funding	Used for information about sources of finance for students
xcritTerms:indicativeResource	Used to illustrate the kind of resources that would be used on a course of study, such as IT facilities and reading lists
xcritTerms:internationalStudents	Used for information specifically for international students
xcritTerms:leadsTo	Used to describe opportunities likely to flow from a course of study, such as opportunities for further study (course articulations)
xcritTerms:policy	Used to specify policies relevant to a course of study, such as diversity of adjustments for disability
xcritTerms:providedResource	Used to clarify resources that would be provided to learners by the institution
xcritTerms:requiredResource	Used to clarify resources that the learner must provide in order to engage in a course of study
xcritTerms:specialFeature	Used to highlight special features of a course of study
xcritTerms:support	Used to specify support facilities available to learners
xcritTerms:structure	Used to provide an overview of the module composition of a course of study
xcritTerms:studyHours	Used to specify hours of study expected of a learner for successful completion
xcritTerms:teachingStrategy	Used to specify the teaching strategies that will be employed on a course of study
xcritTerms:topic	Used to specify a syllabus of topics that would be covered in a course of study
courseDataProgramme:metadataKeywords	Used to specify metadata keywords relating to the course.
courseDataProgramme:targetAudience	Used to specify the target audience
courseDataProgramme:professionalStatus	Used to describe the professional status from successful completion of a qualification.

Type	Name: xsi:type
Description	Type extension for <description> element
Format	xsi:type="[see <i>xsi:type</i> reference above]"
Optionality	Optional
Examples	<dc: description xsi:type="xcriTerms:internationalStudents"> Advanced English for Academic Study may be compulsory for non-native speakers who need extra support </dc:description> <dc: description xsi:type="xcriTerms:funding"> The University of Kent recognises the family and personal loyalty shown by registration on multiple degrees by siblings, children of alumni, husband and wife studying together or alumni studying for additional degrees. To find out if you qualify for a discount on your tuition fees please visit the loyalty discount page.</dc:description>

identifier (course context)

catalog >> provider >> course >> **identifier**

Element	Name: identifier	Namespace: http://purl.org/dc/elements/1.1/
Description	A permanent unambiguous reference to the course	
Format	The course element MUST NOT contain more than one identifier without an explicitly-defined encoding scheme. An identifier without an explicitly-defined encoding scheme SHOULD be a URI, and the content SHOULD conform to a URI as in IETF RFC 3986. It SHOULD be a permanent unchanging identifier. An institution's own internal ID can be included and SHOULD use the xsi:type "internalID" (see Examples). The provider will indicate to aggregators which identifier type to use. This ID MUST be a permanent unchanging identifier. If this ID is not found during update, the aggregator SHOULD presume the course is no longer offered. This element MUST use the Dublin Core Namespace: http://purl.org/dc/elements/1.1/ Max: 50 characters	
Optionality	Mandatory; at least one Other identifiers are encouraged, as long as they are defined with an encoding scheme (for example, a ukprn), qualified using xsi:type to a specific namespace.	
Parent	course	
Children	None	
Attributes	xsi:type (for namespace-based encoding schemes)	

Examples	<code><dc:identifier>http://www.myUni.ac.uk/courses/A101</dc:identifier></code> <code><dc:identifier xsi:type="http://www.ucas.ac.uk:/UCAScoursecode">V100</dc:identifier>dc:identifie r xsi:type="courseDataProgramme:internalID">A1000</dc:identifier></code>
Comments	Although an identifier is mandatory, it is not a requirement that an identifier must or should be a URI. However, if a URI is not used, the identifier SHOULD use an explicitly defined encoding scheme, denoting what it is, for example a UCAS Course Code or an internal ID. The Course Data Programme schema defines an internalID type for use in this context – see example above.

isPartOf

Element	Name: isPartOf	Namespace: http://purl.org/net/mlo
Description	Text about relationship between the resource and a parent resource.	
Format	Plain text (see Comments)	
Optionality	Mandatory for Postgraduate Collection	
Parent	course	
Children	None	
Attributes	None	
Examples	<code><mlo:isPartOf>School of Engineering and Information Technology</mlo:isPartOf></code>	
Comments	This element MUST link to one and only one of the hasPart elements in the provider element. Exact text is required. Use this to indicate the department, school or faculty that owns the course. If more than one, indicate the main one. If there are two equal owners, you must choose one default department, school or faculty.	

presentation

catalog >> provider >> course >> **presentation**

Element	Name: presentation	Namespace: http://xcri.org/profiles/1.2/catalog
See presentation Core Element .		

qualification

catalog >> provider >> course >> **qualification**

Element	Name: qualification	Namespace: http://purl.org/net/mlo
See qualification Core Element .		

subject (course context)

catalog >> provider >> course >> **subject**

Element	Name: subject	Namespace: http://purl.org/dc/elements/1.1/
Description	The topic of the course	

Format	Plain text that MUST be a human-readable value from JACS3 is required. Codes MUST be in the @identifier attribute. Element content SHOULD be the keyword term from the JACS3 classification. Max: 100 characters
Optionality	Mandatory; at least one
Parent	course
Children	None
Attributes	xsi:type identifier
Examples	<dc:subject xsi:type="courseDataProgramme:JACS3" identifier="V100">History by period</dc:subject>
Comments	It is preferred that the JACS3 codes supplied here have been allocated for the purpose of course retrieval, rather than for statistical analysis.

Attributes of subject

identifier

Attribute	Name: identifier
Description	Identifies the key in a key-value pair from a subject classification or encoding scheme.
Format	The content MUST conform to the requirements of the JACS3 vocabulary.
Optionality	Mandatory
Examples	See element.

title (course context)

catalog >> provider >> course >> **title**

Element	Name: title	Namespace: http://purl.org/dc/elements/1.1/
Description	Name of the course	
Format	Plain text using title case. The course title MUST NOT include a qualification abbreviation or awarding body acronym or name. Max: 255 characters	
Optionality	Mandatory; one and only one for Postgraduate Collection	
Parent	course	
Children	None	
Attributes	lang	
Examples	<dc:title>Accounting and Finance</dc:title>	

Comments	Multiple titles are permitted in the XCRI-CAP 1.2 standard. However, this data specification does not offer a means of differentiating between multiple titles. Therefore one and only one title is mandated, and it must be in a common format for the rest of the community. Further formats for course title will be discussed, so that different ones can be consumed more easily.
----------	--

type (course context)

catalog >> provider >> course >> **type**

Element	Name: type	Namespace: http://purl.org/dc/elements/1.1/
Description	A grouping of similar courses in terms of target audience	
Format	The Prospects vocabularies MUST be used. For mlo:RTCourseTypeFlag: "Research", "R"; or "Taught", "T" (see example) For xcri:courseTypeGeneral: "UG", "Undergraduate" "PG", "Postgraduate" "CP", "Continuing Professional Development" "OT", "Other"	
Optionality	Mandatory for Postgraduate Collection Two mandatory elements, one for the type and one for flagging whether the course is Research or Taught. Max: 50 characters	
Parent	course	
Children	None	
Attributes	xsi:type as below.	
Examples	<pre><dc:type xsi:type="xcri:courseTypeGeneral" xcri:identifier="PG">Postgraduate</dc:type> <dc:type xsi:type="mlo:RTCourseTypeFlag" mlo:RT-identifier="T">Taught</dc:type></pre>	

url (course context)

catalog >> provider >> course >> **url**

Element	Name: url	Namespace: http://purl.org/net/mlo
Description	The URL of the course	
Format	The content MUST conform to a URI as in IETF RFC 3986. A cool URI is PREFERRED.	
Optionality	Preferred; zero or one	
Parent	course	
Children	None	
Attributes	None	
Examples	<pre><mlo:url>http://www.myUni.ac.uk/courses/A101/</mlo:url></pre>	

Comments	Feeds SHOULD use the url element even if the URL is given as an identifier, because aggregators might use this element for the specific purpose of linking to the provider's website.
----------	---

Elements by core element: presentation

presentation

catalog >> provider >> course >> **presentation**

Element	Name: presentation	Namespace: http://xcri.org/profiles/1.2/catalog
Description	Holds the data relating to an instance of the learning opportunity.	
Format	MUST contain the mandatory elements and MAY contain the other elements as specified in children below. MAY also contain other elements conforming or strictly conforming to the XCRI-CAP 1.2 specification.	
Optionality	Mandatory for Postgraduate Collection; 1 presentation for each start or entry point, and for each study mode.	
Parent	course	
Children	abstract (preferred/inherited) age (optional) applicationProcedure (optional/inherited) applyFrom (optional) applyTo (optional) applyUntil (optional) assessment (optional/inherited) attendanceMode (preferred) attendancePattern (preferred) cost (mandatory for Postgraduate Collection) description (mandatory/inherited) duration (optional, mandatory if no end date given) end (optional; mandatory if no duration given) identifier (mandatory for Postgraduate Collection) languageOfAssessment (optional) languageOfInstruction (optional) learningOutcome (optional/inherited) objective (optional/inherited) places (optional) prerequisite (optional in presentation context/inherited) regulations (optional/inherited) start (mandatory) studyMode (mandatory for Postgraduate Collection) subject (optional/inherited) title (optional/inherited) url (preferred)	

	venue (mandatory for attendanceMode = Campus; otherwise optional)
Attributes	None
Examples	See sample XCRI-CAP 1.2 example file: PG_Generic_XCRI-CAP-1.2.xml.

abstract (presentation context)

catalog >> provider >> course >> presentation >> **abstract**

Element	Name: abstract	Namespace: http://xcri.org/profiles/1.2/catalog
See abstract element in Common Descriptive Elements sections.		

age

catalog >> provider >> course >> presentation >> **age**

Element	Name: age	Namespace: http://xcri.org/profiles/1.2/catalog
Description	The intended age range for which the presentation is suitable	
Format	Structured text as given in Values The value of this element MUST be one of: • any • not known • x-y • x+ where x and y MUST be non-negative integers representing an age in years.	
Optionality	Optional; zero or one	
Parent	presentation	
Children	None	
Attributes	None	
Examples	<age>any</age> <age>17+</age> <age>14-19</age>	

applicationProcedure (presentation context)

catalog >> provider >> course >> presentation >> **applicationProcedure**

Element	Name: applicationProcedure	Namespace: http://xcri.org/profiles/1.2/catalog
See applicationProcedure element in Common Descriptive Elements sections.		

applyFrom

catalog >> provider >> course >> presentation >> **applyFrom**

Element	Name: applyFrom	Namespace: http://xcri.org/profiles/1.2/catalog
Description	The date from which applications can be accepted for the presentation	
Format	Plain human-readable text for the element ISO 8601 date-time for the dtf attribute Format should be YYYY-MM-DD or YYYY-MM for Postgraduate collection	

Optionality	Optional; zero to one
Parent	presentation
Children	None
Attributes	dtf
Examples	<applyFrom dtf="2016-04-09">Start of Spring Term</applyFrom> <applyFrom dtf="2016-10">Start of Academic Year</applyFrom>

Attributes of applyFrom

dtf

Attribute	Name: dtf
See dtf element in start element .	

applyTo

catalog >> provider >> course >> presentation >> **applyTo**

Element	Name: applyTo	Namespace: http://xcri.org/profiles/1.2/catalog
Description	A URL to further information about, or an online application system for, the presentation.	
Format	The content MUST conform to a URI as in IETF RFC 3986.	
Optionality	Optional; zero to one	
Parent	presentation	
Children	None	
Examples	<applyTo> http://www.myUni.ac.uk/study/ </applyTo>	

applyUntil

catalog >> provider >> course >> presentation >> **applyUntil**

Element	Name: applyFrom	Namespace: http://xcri.org/profiles/1.2/catalog
Description	The date after which applications cannot be accepted for the presentation of a course.	
Format	Plain human-readable text for the element ISO 8601 date-time for the dtf attribute Format should be YYYY-MM-DD or YYYY-MM for Postgraduate collection	
Optionality	Optional; zero to one	
Parent	presentation	
Children	None	
Attributes	dtf	
Examples	<applyUntil dtf="2016-04-09">One week before start of course</applyUntil>	

Attributes of applyUntil

dtf

Attribute	Name: dtf
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See dtf element in start element .
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assessment (presentation context)

catalog >> provider >> course >> presentation >> **assessment**

Element	Name: assessment	Namespace: http://purl.org/net/mlo
See assessment element in Common Descriptive Elements sections.		

attendanceMode

catalog >> provider >> course >> presentation >> **attendanceMode**

Element	Name: attendanceMode	Namespace: http://xcri.org/profiles/1.2/catalog
Description	The type of location at which the student will undertake the presentation	
Format	Plain text in the element Codes in the identifier attribute The following key-value pairs MUST be used, the key in the identifier attribute, the value in the element: CM,Campus DA,Distance with attendance DS,Distance without attendance NC,Face-to-face non-campus MM,Mixed mode ON,Online (no attendance) WB,Work-based	
Optionality	Preferred; multiple permitted, but normally will be one only	
Parent	presentation	
Children	None	
Attributes	identifier	
Examples	<attendanceMode identifier="DA">Distance with attendance</attendanceMode>	
Comments	Other vocabularies may be used by communities of practice.	

Attributes of attendanceMode

identifier

Attribute	Name: identifier
Description	A machine-processable key for the value in the element
Format	2-character code CM, DA, DS, NC, MM, ON, WB (see element for full vocabulary)
Optionality	Preferred
Examples	See element

attendancePatterncatalog >> provider >> course >> presentation >> **attendancePattern**

Element	Name: attendancePattern	Namespace: http://xcri.org/profiles/1.2/catalog
Description	The period in the day and/or frequency during which attendance at a venue is required (if any)	
Format	Plain text in the element Codes in the identifier attribute The following key-value pairs MUST be used, the key in the identifier attribute, the value in the element: DT,Daytime EV,Evening TW,Twilight DR,Day/Block release WE,Weekend CS,Customised	
Optionality	Preferred; multiple permitted, but normally will be one only	
Parent	presentation	
Children	None	
Attributes	identifier	
Examples	<attendancePattern identifier="CS">Customised</attendancePattern>	
Comments	Other vocabularies may be used by communities of practice.	

Attributes of attendancePattern**identifier**

Attribute	Name: identifier
Description	A machine-processable key for the value in the element
Format	2-character code DT, EV, TW, DR, WE, CS
Optionality	Preferred
Examples	See element

costcatalog >> provider >> course >> presentation >> **cost**

Element	Name: cost	Namespace: http://purl.org/net/mlo
Description	A textual description of the cost associated with obtaining access to the presentation, including reference to bursaries or other special arrangements for specific groups of learners	

Format	Plain text Pound signs (£) or XML entities (£ £ �xA3) MUST NOT be used. Instead use the international standard 'GBP'; see http://www.currency-iso.org/en/home/tables/table-a1.html . Max: 4,000 characters
Optionality	Mandatory for Postgraduate Collection
Parent	presentation
Children	None
Attributes	None
Examples	<mlo:cost>UK fee: GBP590.00; Ireland fee: GBP975.00; Continental Europe fee: GBP1080.00</mlo:cost>
Comments	This element is a candidate for extension to take into account KIS formats and representation for 'vat', 'net' and 'gross' amounts.

description (presentation context)

catalog >> provider >> course >> presentation >> **description**

Element	Name: description	Namespace: http://purl.org/dc/elements/1.1/
See description element in course element section.		

duration

catalog >> provider >> course >> presentation >> **duration**

Element	Name: duration	Namespace: http://purl.org/net/mlo
Description	Information about how long the presentation will last	
Format	Plain human-readable text for the element ISO 8601 duration-only time interval for the interval attribute Max: 4,000 characters	
Optionality	mandatory, unless end date is given	
Parent	presentation	
Children	None	
Attributes	interval. This should be given in years, months or days format only for Postgraduate Collection.	
Examples	<mlo:duration interval="P36M">Three years</mlo:duration> <mlo:duration interval="P1Y6M">Eighteen months</mlo:duration>	

Attributes of duration

interval

Attribute	Name: interval
Description	A machine-processable time interval during which the presentation lasts

Format	The content MUST comply with the duration-only time interval standard as specified by ISO 8601. PnYnMnDTnHnMnS Year, Month or Day format is the accepted unit for Postgraduate Collection.
Optionality	Mandatory for Postgraduate Collection, unless end date is given
Examples	P3Y, P12M

endcatalog >> provider >> course >> presentation >> **end**

Element	Name: end	Namespace: http://xcri.org/profiles/1.2/catalog
Description	Information about the end date and / or time of the presentation	
Format	Plain human-readable text for the element ISO 8601 date-time for the dtf attribute Format should be YYYY-MM-DD or YYYY-MM for Postgraduate collection	
Optionality	Optional; zero to one. Mandatory if duration not given	
Parent	presentation	
Children	None	
Attributes	dtf	
Examples	<end dtf="2012-01-03">Tuesday, 3 rd January 2012</end>	

*Attributes of end***dtf**

Attribute	Name: dtf
See dtf element in start element .	

identifier (presentation context)catalog >> provider >> course >> presentation >> **identifier**

Element	Name: identifier	Namespace: http://purl.org/dc/elements/1.1/
Description	An unambiguous reference to the presentation	
Format	One of the identifiers MUST be in a URI format as specified below. The presentation element MUST NOT contain more than one identifier without an explicitly-defined encoding scheme. An identifier without an explicitly-defined encoding scheme SHOULD be a URI, and the content SHOULD conform to a URI as in IETF RFC 3986. This element MUST use the Dublin Core Namespace: http://purl.org/dc/elements/1.1/	
Optionality	Mandatory for Postgraduate collection	
Parent	course	
Children	None	

Attributes	xsi:type (for namespace-based encoding schemes)
Examples	<dc:identifier>http://www.myUni.ac.uk/courses/A101_Oct2012</dc:identifier>
Comments	See comments under course >> identifier. Feed updates will overwrite existing data in Prospects, when matched on presentation identifier.

languageOfAssessment

catalog >> provider >> course >> presentation >> **languageOfAssessment**

Element	Name: languageOfAssessment	Namespace: http://xcri.org/profiles/1.2/catalog
Description	A language in which the presentation is assessed	
Format	A valid language tag according to the IETF BCP47 specification, using 2-character ISO 639-1 codes. A further source of the ISO 639-1 codes is: http://www.loc.gov/standards/iso639-2/php/English_list.php . 2-character ISO 639-1 codes; default 'en'	
Optionality	Optional; if not present, then consumers MUST assume that the language of the element is English.	
Parent	presentation	
Children	None	
Attributes	None	
Examples	<mlo:languageOfAssessment>en</mlo:languageOfAssessment>	

languageOfInstruction

catalog >> provider >> course >> presentation >> **languageOfInstruction**

Element	Name: languageOfInstruction	Namespace: http://purl.org/net/mlo
Description	A language in which the presentation is available to be taught	
Format	A valid language tag according to the IETF BCP47 specification, using 2-character ISO 639-1 codes. 2-character ISO 639-1 codes; default 'en'	
Optionality	Optional; if not present, then consumers MUST assume that the language of the element is English.	
Parent	presentation	
Children	None	
Attributes	None	
Examples	<mlo:languageOfInstruction>en</mlo:languageOfInstruction>	

learningOutcome (presentation context)

catalog >> provider >> course >> presentation >> **learningOutcome**

Element	Name: learningOutcome	Namespace: http://xcri.org/profiles/1.2/catalog
See learningOutcome element in Common Descriptive Elements sections.		

objective (presentation context)catalog >> provider >> course >> presentation >> **objective**

Element	Name: objective	Namespace: http://purl.org/net/mlo
See objective element in Common Descriptive Elements sections.		

placescatalog >> provider >> course >> presentation >> **places**

Element	Name: places	Namespace: http://purl.org/net/mlo
Description	A textual description of the number of places available for participants in the presentation. MAY be a simple integer.	
Format	Plain text Max: 4,000 characters	
Optionality	Optional; zero or one	
Parent	presentation	
Children	None	
Attributes	None	
Examples	<mlo:places>10</mlo:places>	

prerequisite (presentation context)catalog >> provider >> course >> presentation >> **prerequisite**

Element	Name: objective	Namespace: http://purl.org/net/mlo
See prerequisite element in Common Descriptive Elements sections.		

regulations (presentation context)catalog >> provider >> course >> presentation >> **regulations**

Element	Name: objective	Namespace: http://xcri.org/profiles/1.2/catalog
See regulations element in Common Descriptive Elements sections.		

startcatalog >> provider >> course >> presentation >> **start**

Element	Name: start	Namespace: http://purl.org/net/mlo
Description	Information about the start date and / or time of the presentation	
Format	Plain human-readable text for the element ISO 8601 date-time for the dtf attribute Format should be YYYY-MM-DD or YYYY-MM for Postgraduate collection	
Optionality	Mandatory; one and only one	
Parent	presentation	
Children	None	

Attributes	dtf
Examples	<mlo:start dtf="2015-01-06">Tuesday, 6 th January 2015</mlo:start>
Comments	If a definite start date is known, it MUST be placed in the dtf attribute.

Attributes of start

dtf

Attribute	Name: dtf
Description	The date and time at which the presentation begins
Format	The content MUST comply with date and time format for ISO 8601. Format should be YYYY-MM-DD or YYYY-MM for Postgraduate collection
Optionality	Mandatory for Postgraduate Collection
Examples	2014-12-21

studyMode

catalog >> provider >> course >> presentation >> **studyMode**

Element	Name: studyMode	Namespace: http://xcri.org/profiles/1.2/catalog										
Description	A general expression of the overall amount of the student's time that is devoted to the learning opportunity, as defined by the provider											
Format	Plain text in the element Codes in the identifier attribute The following key-value pairs MUST be used, the key in the identifier attribute, the value in the element: <table><tr><td>NK,Not known</td><td>[DEFAULT] The provider has not supplied the information.</td></tr><tr><td>FL,Flexible</td><td>Full time or part time dependent on the learner.</td></tr><tr><td>FT,Full time</td><td>The learning opportunity is the learner's main activity.</td></tr><tr><td>PF,Part of a full time programme</td><td>The learning opportunity is a component of a set of learning opportunities that form the learner's main activity.</td></tr><tr><td>PT,Part time</td><td>The learning opportunity is not the learner's main activity</td></tr></table>		NK,Not known	[DEFAULT] The provider has not supplied the information.	FL,Flexible	Full time or part time dependent on the learner.	FT,Full time	The learning opportunity is the learner's main activity.	PF,Part of a full time programme	The learning opportunity is a component of a set of learning opportunities that form the learner's main activity.	PT,Part time	The learning opportunity is not the learner's main activity
NK,Not known	[DEFAULT] The provider has not supplied the information.											
FL,Flexible	Full time or part time dependent on the learner.											
FT,Full time	The learning opportunity is the learner's main activity.											
PF,Part of a full time programme	The learning opportunity is a component of a set of learning opportunities that form the learner's main activity.											
PT,Part time	The learning opportunity is not the learner's main activity											
Optionality	Mandatory for Postgraduate Collection											
Parent	presentation											
Children	None											
Attributes	identifier											
Examples	<studyMode identifier="FL">Flexible</studyMode>											
Comments	These are mutually exclusive terms, so 'Full time' does not include 'Part of a full time programme'. Other vocabularies may be used by communities of practice.											

*Attributes of studyMode**identifier*

Attribute	Name: identifier
Description	A machine-processable key for the value in the element
Format	2-character code NK, FL, FT, PF, PT
Optionality	Mandatory for Postgraduate Collection
Examples	See element

subject (presentation context)

catalog >> provider >> course >> presentation >> **subject**

Element	Name: subject	Namespace: http://purl.org/dc/elements/1.1/
Description	The topic of the presentation	
See subject in course element . If subject is not present it will be inherited from the course element's subject element.		

title (presentation context)

catalog >> provider >> course >> presentation >> **title**

Element	Name: title	Namespace: http://purl.org/dc/elements/1.1/
Description	Name of the presentation	
See title in course element . If title is not present it will be inherited from the course element's title element.		

url (presentation context)

catalog >> provider >> course >> presentation >> **url**

Element	Name: url	Namespace: http://purl.org/net/mlo
Description	The URL of the presentation	
See url in course element . Feeds SHOULD use the url element even if the URL is given as an identifier, because aggregators might use this element for the specific purpose of linking to the provider's website. If url is not present it will be inherited from the course element's url element.		

venue

catalog >> provider >> course >> presentation >> **venue**

Element	Name: venue	Namespace: http://xcrl.org/profiles/1.2/catalog
Description	Holds the information relating to the main locations where a learning opportunity is presented.	
Format	A single provider element as the only child element	
Optionality	Can be omitted if venue is the same as provider; else Mandatory (at least one) for attendanceMode = Campus; otherwise optional	

Parent	presentation
Children	provider
Attributes	None
Example	This example is provided to show the relationship between course, presentation and venue – it is not complete and accurate XCRI-CAP syntax. In this example, the first presentation is FT and the learner attends partly at Stroud (the main venue) and partly at Chippenham (a subsidiary venue); the second presentation is PT and all taken at Stroud. <pre> <course> <dc:identifier>Course1</dc:identifier> <presentation> <dc:identifier>P1 - 2011</dc:identifier> <dc:description>Attendance is at the Stroud Campus for years 1 and 2, and at Chippenham Campus for year 3.</dc:description> <studyMode identifier="FT">Full time</studyMode> <venue> <provider> <dc:title>Stroud Campus</dc:title> </provider> </venue> <venue> <provider> <dc:location>Chippenham Campus</dc:location> </provider> </venue> </presentation> <presentation> <dc:identifier>P2 - 2012</dc:identifier> <dc:description>Attendance is at the Stroud Campus (part time) for the whole period of study.</dc:description> <studyMode identifier="PT">Part time</studyMode> <venue> <provider> <dc:title>Stroud Campus</dc:title> </provider> </venue> </presentation> </course> </pre>
Comments	The venue element SHOULD be used to describe the physical venue or venues of the presentation. This MAY be a sub-organisation of the provider of the presentation (such as a department, school or campus), or it MAY be a third party or external organisation. If the venue is the same as the main provider element, then the venue element can be omitted. If a single presentation has multiple venues (for example a programme in which the first year is at one campus and subsequent years are at a different campus), this information MAY optionally be included in the description element of the presentation. The first venue element SHOULD refer specifically to the main location of the learning. If information about non-specific locations (such as client premises or physical locations not yet known) is required, this information SHOULD be included in the description element of the presentation, AND an appropriate attendanceMode element SHOULD be used. The level of detail given in the venue element will depend on the type of course. For a long programme, a campus may be appropriate, for a short course, it may be more appropriate to specify a room or building within a campus.

provider (venue context)catalog >> provider >> course >> presentation >> venue >> **provider**

Element	Name: provider	Namespace: http://xcri.org/profiles/1.2/catalog
Description	Holds the information relating to the venue	
Format	MUST contain the mandatory elements and MAY contain the other elements as specified in children below. Elements not listed under children MUST NOT be used in this element.	
Optionality	Mandatory; one and only one	
Parent	venue	
Children	description (optional) identifier (mandatory) location (mandatory) title (mandatory) url (optional)	
Attributes	None	
Examples	See sample XCRI-CAP 1.2 example file: <pre> <venue> <provider> <dc:identifier>Medway</dc:identifier> <dc:title>University of Kent at Medway</dc:title> <mlo:location> <mlo:town>Chatham Maritime</mlo:town> <mlo:postcode>ME4 4AG</mlo:postcode> <mlo:address>The Medway Building</mlo:address> <mlo:phone>+44 (0)1634 888800</mlo:phone> <mlo:url>http://www.kent.ac.uk/locations/medway/</mlo:url> </mlo:location> </provider> </venue> </pre>	

description (venue context)catalog >> provider >> course >> presentation >> venue >> provider >> **description**

Element	Name: description	Namespace: http://purl.org/dc/elements/1.1/
Description	General textual information about the venue and its facilities	
For remaining items, see description element in provider section.		

identifier (venue context)catalog >> provider >> course >> presentation >> venue >> provider >> **identifier**

Element	Name: identifier	Namespace: http://purl.org/dc/elements/1.1/
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Description	An unambiguous reference to the venue
For remaining items, see identifier element in provider section.	

location (venue context)

catalog >> provider >> course >> presentation >> venue >> provider >> **location**

Element	Name: location	Namespace: http://purl.org/net/mlo
Description	Holds information about the spatial location of the venue. It contains the venue's postal address and optionally further data giving its geographical location.	
Format	MUST contain the mandatory elements and MAY contain the other elements as specified in children below. Elements not listed under children MUST NOT be used in this element.	
Optionality	Mandatory; one and only one	
Parent	provider	
Children	address (mandatory) email (mandatory) fax (optional) phone (mandatory) postcode (mandatory) town (mandatory)	
Attributes	None	

address (venue context)

catalog >> provider >> course >> presentation >> venue >> provider >> location >> **address**

Element	Name: address	Namespace: http://purl.org/net/mlo
Description	Specifies the geographical or spatial location of the venue	
Format	More than one set of different valid formats MAY be used. Each set that is not a postal address MUST use an explicitly-defined encoding scheme. Postal address: there MUST be one set of address elements that has no encoding scheme, and this set of address elements MUST consist of the sequential lines of the official postal address (except for the postcode), so that these elements can be combined with the <postcode> element to form the full postal address. Each postal address line must be contained in its own <address> element. The postal address elements must be ordered so that the sequence in the document will generate successive postal address lines. Geo-location encoding: latitude and longitude MAY be indicated in address elements, using an additional encoding scheme (see examples).	
Optionality	Mandatory; at least one set	
Parent	location	
Children	None	

Examples	<mlo:postcode>NG7 2RD</mlo:postcode> <mlo:address>Hallward Library</mlo:address> <mlo:address>University Park</mlo:address> <mlo:address>Nottingham</mlo:address> <mlo:address xsi:type="geo:lat">-123.7</mlo:address> <mlo:address xsi:type="geo:long">54</mlo:address>
Comments	Use of the street and town elements in postal addresses is deprecated, as these elements do not promote data integrity when data is exchanged.

email

catalog >> provider >> course >> presentation >> venue >> provider >> location >> **email**

Element	Name: email	Namespace: http://purl.org/net/mlo
Description	Email address of the venue	
Optionality	Mandatory; one and one only	
For remaining items, see email element in provider section.		

fax

catalog >> provider >> course >> presentation >> venue >> provider >> location >> **fax**

Element	Name: fax	Namespace: http://purl.org/net/mlo
Description	Fax number of the venue	
For remaining items, see fax element in provider section.		

phone

catalog >> provider >> course >> presentation >> venue >> provider >> location >> **phone**

Element	Name: phone	Namespace: http://purl.org/net/mlo
Description	Telephone number of the venue	
Optionality	Mandatory; one and one only	
For remaining items, see phone element in provider section.		

postcode (venue context)

catalog >> provider >> course >> presentation >> venue >> provider >> location >> **postcode**

Element	Name: postcode	Namespace: http://purl.org/net/mlo
Description	Full official postcode of the address of the venue	
Format	Between 2 and 4 characters: (one or two letters)(number between 0 and 99)(zero or one letter) space 3 characters: (single digit)(two letters) Valid UK postcodes Max: 8 characters	
Optionality	Mandatory; one and only one	

Parent	location
Children	None
Attributes	None
Examples	M1 1AA, B33 8TH, CR2 6XH, DN55 1PT, W1A 1HQ, EC1A 1BB
Comments	Used as the final part of the UK postal address, combined with addressLine typed address elements.

town

catalog >> provider >> course >> presentation >> venue >> provider >> location >> **town**

Element	Name: town	Namespace: http://purl.org/net/mlo
Description	The name of the town or city in which the venue is situated.	
Format	Plain text with first letter of each word upper case, the remainder lower case Max: 50 characters	
Optionality	Mandatory; one and one only	
Parent	location	
Children	None	
Attributes	None	
Examples	<mlo:town>Stroud</mlo:town>	
Comments	This is not part of the postal address, for which see the address element. This element might be used by information systems for geographical searching.	

title (venue context)

catalog >> provider >> course >> presentation >> venue >> provider >> **title**

Element	Name: title	Namespace: http://purl.org/dc/elements/1.1/
Description	Common name of the venue	
Format	Plain text using title case Max: 255 characters	
Optionality	Mandatory; one and only one	
Parent	provider	
Children	None	
Attributes	lang .	
Examples	<dc:title>Priory Campus</dc:title> <dc:title>The Old Refectory, Priory Campus</dc:title>	
Comments	The title of the venue may be a campus name, building name or a combination, including room number or name that will enable the learners to identify the location. Practice may vary dependent on type of course. For a long course it will usually be sufficient to state the campus. For a short course, a building or room plus campus name may be more appropriate.	

url (venue context)

catalog >> provider >> course >> presentation >> venue >> provider >> **url**

Element	Name: url	Namespace: http://purl.org/net/mlo
Description	The URL of the web page of the venue	
For remaining items, see url element in provider section.		

Elements by core element: qualification**qualification**

catalog >> provider >> course >> **qualification**

Element	Name: qualification	Namespace: http://purl.org/net/mlo
Description	Holds the data relating to a named formal recognition of achievement or competence (award) certified by an awarding body that can result from studying a course.	
Format	MUST contain the mandatory elements and MAY contain the other elements as specified in children below. MAY also contain other elements conforming or strictly conforming to the XCRI-CAP 1.2 specification.	
Optionality	Mandatory if course leads to award of a qualification; otherwise do not use. One and only one to be included.	
Parent	Course	
Children	abbr (mandatory for Postgraduate Collection) accreditedBy (optional) awardedBy (optional) description (optional) description in qualification context (optional) education level (optional) identifier (preferred) title (mandatory) url (optional)	
Attributes	None	
Examples	See sample XCRI-CAP 1.2 example file: PG_Generic_XCRI-CAP-1.2.xml. This file will be replaced or enhanced by specific example files relating to communities of practice.	

abbr

catalog >> provider >> course >> qualification >> **abbr**

Element	Name: abbr	Namespace: http://xcri.org/profiles/1.2/catalog
Description	Abbreviation used as a shortened form of the qualification awarded	
Format	From Prospects look up table, which should be established as a sector norm. Max: 50 characters	
Optionality	Mandatory for Postgraduate Collection	
Parent	course	

Children	None
Attributes	None
Examples	<abbr>MA</abbr>
Comments	The abbreviations are obtained from an extensive Prospects vocabulary, http://schema.prospects.ac.uk/xcri/vocabularies/pgTaughtQualifications1_0.xml

accreditedBycatalog >> provider >> course >> qualification >> **accreditedBy**

Element	Name: accreditedBy	Namespace: http://xcri.org/profiles/1.2/catalog
Description	The common name of an organisation that accredits the qualification	
Format	Plain text Max: 100 characters	
Optionality	Optional	
Parent	qualification	
Children	None	
Attributes	None	
Examples	<accreditedBy>British Accreditation Council</accreditedBy>	

awardedBycatalog >> provider >> course >> qualification >> **awardedBy**

Element	Name: awardedBy	Namespace: http://xcri.org/profiles/1.2/catalog
Description	The common name of the awarding body	
Format	Plain text Max: 100 characters	
Optionality	Optional	
Parent	qualification	
Children	None	
Attributes	None	
Examples	<awardedBy>The Open University</awardedBy>	

description (qualification context)catalog >> provider >> course >> qualification >> **description**

Element	Name: description	Namespace: http://purl.org/dc/elements/1.1/
Description	General summary of the nature of the qualification	

Format	One of the following: • Plain text content; when content is short and unstructured • Valid XHTML 1.0 content; when preservation of the text formatting is important If this format is not possible, leave the element empty and use the href attribute to contain a URL linking to the information. Max: 4,000 characters
Optionality	Optional; if used: zero or one in a single language; multiple permitted to enable information in more than one language
Parent	qualification
Children	If XHTML is used, MUST have XHTML child elements; see: http://www.w3.org/2002/08/xhtml/xhtml1-strict.xsd . Otherwise none.
Attributes	lang ; [href (see Format)].
Comments	Safe use of XHTML: See section on Security Considerations in the BS 8581, XCRI-CAP standard for guidance.

description (qualification context), professionalStatus

catalog >> provider >> course >> qualification >> **description**

Element	Name: description	Namespace: http://purl.org/dc/elements/1.1/
Description	Description of any professional standing of the qualification, including reference to specific professional bodies.	
Format	As for description, but MUST refer to professionalStatus extension in http://www.xcri.co.uk namespace (see example). One of the following: • Empty; when the href attribute contains a URL linking to the information • Plain text content; when content is short and unstructured • Valid XHTML 1.0 content; when preservation of the text formatting is important Max: 4,000 characters	
Optionality	Optional; if used: zero or one in a single language; multiple permitted to enable information in more than one language	
Parent	qualification	
Children	If XHTML is used, MUST have XHTML child elements; see: http://www.w3.org/2002/08/xhtml/xhtml1-strict.xsd . Otherwise none.	
Attributes	lang ; href ; xsi:type="courseDataProgramme:professionalStatus"	
Examples	<dc:description xsi:type="courseDataProgramme:professionalStatus">On graduation you may be eligible to apply (via an appropriate engineering institution) to the Engineering Council (ECUK) for registration as Incorporated Engineer.</dc:description>	
Comments	Safe use of XHTML: See section on Security Considerations in the BS 8581, XCRI-CAP standard for guidance.	

educationLevelcatalog >> provider >> course >> qualification >> **educationLevel**

Element	Name: educationLevel	Namespace: http://purl.org/dc/terms/
Description	Information about the progression through an educational or training context represented by the qualification	
Format	Plain text A controlled list of terms (vocabulary) MAY be used. Max: 50 characters	
Optionality	Optional; if used: zero or one in a single language; multiple permitted to enable information in more than one language	
Parent	qualification	
Children	None	
Attributes	None	
Examples	<dcterms:educationLevel>Undergraduate</dcterms:educationLevel> <dcterms:educationLevel>Postgraduate</dcterms:educationLevel>	
Comments	MAY describe a position within an education level framework, if this is not contained with the credit element. For this purpose a vocabulary may be appropriate.	

identifier (qualification context)catalog >> provider >> course >> qualification >> **identifier**

Element	Name: identifier	Namespace: http://purl.org/dc/elements/1.1/
Description	An unambiguous reference to the qualification	
Format	Plain text MAY be a URI.	
Optionality	Preferred; zero or one	
Parent	course	
Children	None	
Attributes	None	
Examples	<dc:identifier>http://www.myUni.ac.uk/qualifications/BA_History</dc:identifier>	
Comments	It is possible that Awarding Bodies will have permanent URLs for the qualifications they award; these would be preferable identifiers, but it is accepted that they may be difficult to collect, so internal identifiers are a practical alternative. Communities of practice (for example FE Colleges) may wish to use identifiers from central information systems such as the LAD/LARA/QAN services. Type definitions for these identifiers can be added to the Course Data Programme schema on request.	

title (qualification context)catalog >> provider >> course >> qualification >> **title**

Element	Name: title	Namespace: http://purl.org/dc/elements/1.1/
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Description	Full official name of the qualification using standard abbreviations if used in official documentation
Format	Plain text using title case Max: 255 characters
Optionality	Mandatory; one and only one
Parent	course
Children	None
Attributes	lang
Examples	<pre><dc:title>BA Honours in History</dc:title> <dc:title>BA (Hons) History</dc:title> <dc:title>Bachelor of Arts in History with Honours</dc:title></pre>

url (qualification context)

catalog >> provider >> course >> qualification >> **url**

Element	Name: url	Namespace: http://purl.org/net/mlo
Description	The URL of the qualification	
Format	The content MUST conform to a URI as in IETF RFC 3986 . A cool URI is PREFERRED.	
Optionality	Optional	
Parent	qualification	
Children	None	
Attributes	None	
Examples	<pre><mlo:url>http://www.myUni.ac.uk/qualifications/MSc</mlo:url></pre>	

Elements by core element: credit

Core Element: credit

catalog >> provider >> course >> **credit**

Element	Name: credit	Namespace: http://purl.org/net/mlo
Description	An account of the credits that can be obtained from completion of a course	
Format	MUST contain the mandatory elements and MAY contain the other elements as specified in children below. MAY also contain other elements conforming or strictly conforming to the XCRI-CAP 1.2 specification.	
Optionality	Optional; zero, one or more	
Parent	course	
Children	level (mandatory) scheme (preferred) value (mandatory)	
Attributes	None	

Examples	Sample XCRI-CAP 1.2 example file: http://www.xcri.co.uk/KbLibrary/SampleOUXCRI-CAP1_2_v9.xml . This file will be replaced or enhanced by specific example files relating to communities of practice.
Comments	A separate credit element SHOULD be used to represent credits for each relevant credit scheme.

level

catalog >> provider >> course >> credit >> **level**

Element	Name: level	Namespace: http://purl.org/net/cm
Description	The point in a credit scheme or framework at which credits are awarded	
Format	Plain text Max: 50 characters	
Optionality	Mandatory; one and only one	
Parent	credit	
Children	None	
Attributes	None	
Examples	<credit:level>6</credit:level>	
Comments	Level should be interpreted in the context of the scheme of the credit resource to which the level pertains. Level may contain any literal value, however implementations should consider the use of URIs to represent levels unambiguously, particularly where more than one type of level can be associated with a particular credit scheme.	

scheme

catalog >> provider >> course >> credit >> **scheme**

Element	Name: scheme	Namespace: http://purl.org/net/cm
Description	The name of the credit scheme under which credits are awarded	
Format	Plain text Max: 255 characters	
Optionality	Preferred; zero or one	
Parent	credit	
Children	None	
Attributes	None	
Examples	<credit:scheme>The Open University</credit:scheme> <credit:scheme>ECTS</credit:scheme>	

value

catalog >> provider >> course >> credit >> **value**

Element	Name: value	Namespace: http://purl.org/net/cm
Description	The number of credits awarded	

Format	Positive integer
Optionality	Mandatory; one and only one
Parent	credit
Children	None
Attributes	None
Examples	<credit:value>120</credit:value>