

Training Exchange Definition : Ted

| structure | type | min-max | role / explanation |
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| ted | | | Principal and unique element containing a sequence of trainings. Different kinds of trainings: - the "trainingCourse" elements are "simple" courses - the "trainingprogramme" elements are courses that are composed of different units - the "unit" elements are courses contained in a "trainingProgramme" element We differentiate the notions of "basic" courses and programmes because the information needed is not always the same: programmes have a part of their information in the description of the unit. In the same way, we have to differentiate "basic" courses with "unit" courses, because for units, some of the information is already in the including training programme. |
| trainingCourse | | 0-* | Definition of a simple course, which contains no unit |
| @key | ID | 0-1 | optional identifier of the course (this key can be an internal id, or any text or number useful to identify the training course) |
| organism | | 1-1 | Description of the organism that organizes the training |
| @key | ID | 0-1 | optional identifier of the organism (this key can be an internal id, or any text or number useful to identify the organism) |
| denomination | string | 1-1 | Short name of the organism |
| completeName | string | 0-1 | complete name of the organism |
| presentation | string | 0-1 | presentation of the organism |
| url | URI | 0-1 | URL of an eventual website for the organism |
| address | | 0-* | addresses of the organism |
| addressLine | string | 1-* | There must be at least one addressLine, which is the first part of the address (for example street, district, ...) |
| postCode | string | 1-1 | Postal code (zip code) if the city |
| city | string | 1-1 | |
| country | | 1-1 | |
| countryCode | 2 characters between A and Z | 0-1 | the country code comes from the ISO 3166-1 standard, on 2 characters |
| countryName | string | 0-1 (*) | (*): there must be at least a countryCode or a countryName. This element is used to help find the country, if its ISO code is not given, or in addition to the code in order to make the XML file more easily readable |
| catalogue | | 0-* | catalogues in which the training is contained: their goal is to help organisms use a hierarchy to store their trainings. We consider that because catalogues are defined recursively, the catalogues which contain the training are the last level catalogues. |

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| @order | integer | 0-1 | indicator of order. This indicator can be used in any way to specify the order of a catalogue or of a training. For example, it is used in TOMA and Syrecos for: - in a last-level catalogue (a catalogue that contains no other catalogue): the order of the training among the trainings of the catalogue - in a catalogue containing a sub-catalogue: the order of the sub-catalogue among the other sub-catalogues of this catalogue. |
| @key | ID | 0-1 | optional identifier of the catalogue (this key can be an internal id, or any text or number useful to identify the catalogue) |
| title | string | 1-1 | title of the catalogue |
| description | string | 0-1 | detailed description of the catalogue |
| catalogue | | 0-1 | The definition of a catalogue is recursive: it can contain other catalogues. The placement of catalogue elements in a training means that the training is contained in the last level catalogue. Because this definition of catalogues is provided in the training, the hierarchy is “developed”: for each catalogue in which the training is referenced, the complete path of catalogues is to be put in the training definition. This means that in this document, each catalogue only contains one catalogue because it is not the description of a catalogue but the “path” of catalogues. |
| domain | string | 0-* | Domains specify what the training is about. They work like catalogues, and have the same kind of structure, but they should be independent of the catalogue hierarchy of the organism. |
| title | string | 1-1 | Title/name of the domain |
| description | string | 0-1 | Description of what should be put in the domain |
| domain | | 0-1 | Sub-domain |
| title | string | 1-1 | title of the training |
| code | String | 0-1 | Code of the training (which can help to identify the training) |
| partnership | string | 0-1 | textual description of the partners of this training |
| objectives | | 0-1 | objectives of the training. |
| introduction | string | 0-1 | introduction to the objectives (or description of the objectives if there is no "objective" element) |
| objective | string | 0-* | one of the objectives (will appear as list elements when published) |
| conclusion | string | 0-1 | conclusion to the objectives |
| pointsDealtWith | | 0-1 | Points that will be dealt with during the training. The definition of pointsDealtWith allows 2 levels of "points": the first level is "pointDealtWith", and the second "sudPointDealtWith" |

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| introduction | string | 0-1 | introduction to the description of the points dealt with during the training |
| pointDealtWith | | 0-* | a single point of the list of points dealt with (will appear as list elements when published) |
| introduction | string | 0-1 | the content of this point |
| subPointDealtWith | string | 0-* | if there are eventually sub points (will appear as list elements when published) |
| conclusion | string | 0-1 | Conclusion of the point |
| conclusion | string | 0-1 | Conclusion to the description of the points dealt with during the training |
| contentDescription | | 0-1 | description of the content of the training: like for the "objectives" element, it allows one sub-level of description, subDescription. |
| introduction | string | 0-1 | introduction of the description (or whole description if there are no subdescriptions) |
| subDescription | string | 0-* | sub points to the description (will appear as list elements when published) |
| conclusion | string | 0-1 | conclusion of the description |
| modeOfOrganization | | 1-1 | The kind of training that it is. |
| @value | possible values: standardTrainingWithPossibilityOfCustomization, standardTraining, onRequest, selfTeachingAtHome, selfTeaching, conference, workgroup, informativeMeeting, distanceLearning | 1-1 | |
| prerequisites | string | 0-* | prerequisites to the following of the training |
| pedagogicalMethods | string | 0-1 | methods used for the training |
| audience | string | 0-* | people that may be interested by this training |
| courseMedia | string | 0-1 | media available during the training |
| location | | 0-* | description of a location where the training will take place. There can be more than one location, for example if some sessions will take place in a different location. |
| @key | ID | 0-1 | optional identifier of the location (this key can be an internal id, or any text or number useful to identify the location) |
| denomination | string | 1-1 | Short name of the place (which can be used to identify the place) |
| completeName | String | 0-1 | Complete name of the place |
| tel | string | 0-1 | |
| fax | string | 0-1 | |
| email | string | 0-1 | |
| address | (already defined) | 1-1 | the address of the location. It is mandatory because the location element is |

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| | | | here to help people find the place of the training. |
| area | | 0-1 | the area of the location. Its goal is to allow a search by proximity on trainings. The first element represents the biggest area, and each element included in another XML element represents a smaller, included area. |
| @name | string | 1-1 | name of the area |
| area | | 0-1 | sub-area of this area (smaller area contained in this area) |
| accessDescription | string | 0-1 | description on how to reach the place |
| accessComment | string | 0-1 | additional comment on how to reach this place |
| accessFacilities | string | 0-1 | the facilities that exist to reach this place (bus, metro, ...) |
| image | url | 0-* | an image about the place, for example a map. The format of this image is not limited, but it should be a well-known and platform independent format, so that everyone can read it, like gif or jpeg. |
| language | | 1-* | languages in which the training will be given. There must be at least one language in the definition of the training, but there can be more than one, for example if some sessions will be given in a different language. |
| languageCode | 3 characters between a and z | 0-1 | language in which a training or training session will be given. It is the ISO 639-2 terminology code of languages, in 3 characters. |
| languageName | string | 0-1 (*) | (*) : there must be at least a languageCode or a languageName Element used to help find the language, if its ISO code is not given, or in addition to the code in order to make the XML file more easily readable |
| level | | 1-1 | level of the training. |
| @value | possible values: beginner, advanced, specialization, allLevels | 1-1 | |
| evaluation | string | 0-1 | whether there will be an evaluation at the end of the training |
| certificatesOrDiplomas | string | 0-1 | Certificates or diplomas that will be delivered at the end of the training |
| duration | string | 0-1 | duration of the training |
| trainingContact | | 0-* | person to contact in order to have additional information about the training. |
| @key | ID | 0-1 | optional identifier of the contact (this key can be an internal id, or any text or number useful to identify the contact) |
| title | string | 0-1 | the title of the person (for example: Mr, Ms, Dr, ...) |
| firstname | string | 0-1 | |
| lastname | string | 1-1 | |
| function | string | 0-1 | role of the contact in his organism |
| tel | string | 0-1 | |
| fax | string | 0-1 | |
| email | string | 0-1 | |
| address | (already defined) | 0-1 | |
| inscriptionContact | (like trainingContact) | 0-* | person to contact in order to have information about the inscription to the |

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| | | | training |
| teacher | | 0-* | persons that will do the training. There can be more than one teacher if more than one participate to a training, or if there are sessions with different teachers. |
| @key | ID | 0-1 | optional identifier of the teacher (this key can be an internal id, or any text or number useful to identify the teacher) |
| title | string | 0-1 | the title of the person (for example: Mr, Ms, Dr, ...) |
| firstname | (already defined) | 0-1 | |
| lastname | (already defined) | 1-1 | |
| function | (already defined) | 0-1 | role of the teacher |
| competence | string | 0-1 | The main competence that the teacher has and that is used for this training |
| cv | string | 0-1 | the description of this person's CV (it can be a simple sentence describing the person, or something more complex, but it must be a string) |
| price | string | 0-1 | price for participating to the training |
| priceComment | string | 0-1 | comment on the price |
| paymentFacilities | string | 0-1 | the different facilities existing for the payment of the inscription to the training |
| inscriptionConditions | string | 0-1 | the conditions of the inscription |
| beginValidityDate | date | 1-1 | date after which the training is valid |
| day | integer between 1 and 31 | 1-1 | |
| month | integer between 1 and 12 | 1-1 | |
| year | positive integer | 1-1 | |
| endValidityDate | date (like beginValidityDate) | 1-1 | date before which the training is valid |
| keyword | string | 0-* | keywords of the training. If the training can concern people speaking different languages, the keywords should be given in every considered language. The keywords can for example be used in a search system. |
| slot | | 0-* | whether the training takes place during the day, the evening or the week-end. There can be more than one slot if it depends on the session. |
| @value | possible values: day, evening, weekend | | |
| comment | string | 0-1 | additionnal information (only for information that can not be given in any other field of the document) |
| courseSession | | 0-* | Sessions are a realization of a training. Their principal elements are the definitions of when the training will take place, but they also contain other elements such as language, price, location, slot or teacher. These elements that may already have been given in the training definition are here only in case they are different from a session to another and therefore cannot be given in the definition of the training (which is why they |

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| | | | are all optional), or if more than one elements were allowed in the training. |
| sessionName | String | 0-1 | Name of the session (can be used to identify the session) |
| seance | | 0-* | each seance is when a part of the session will take place. It is the more complete way of describing the schedule of a training. It is composed of a date representing the day of the seance, and a time interval in this day. |
| dateSeance | date (already defined) | 1-1 | date of the seance. |
| timeInterval | | 1-1 | hours of the seance |
| beginTime | | 1-1 | All the times are the local times according to where the trainings take place. |
| hour | integer between 0 and 23 | 1-1 | |
| minute | integer between 0 and 59 | 1-1 | |
| endTime | (like beginTime) | 1-1 | |
| textualCalendar | string | 0-1 | the textual calendar must only be used if the description of the schedule is too complex to be only explained by seances, or as an additional textual description if séances are provided. |
| dateInterval | | 1-1 | dates between which the training will take place (can be used to filter trainings on their dates) |
| beginDate | (like beginValidityDate) | | |
| endDate | (like beginValidityDate) | | |
| language | (already defined) | 0-1 | Language in which the session will be given |
| price | (already defined) | 0-1 | Price for the inscription to the session |
| priceComment | (already defined) | 0-1 | |
| location | (already defined) | 0-1 | |
| slot | (already defined) | 1-1 | |
| teacher | (already defined) | 0-* | There can be a session with more than one teacher. |
| beginValidityDate | (already defined) | 1-1 | date after which the session is valid |
| endValidityDate | (already defined) | 1-1 | Date before which the session is valid |
| comment | (already defined) | 0-1 | additionnal information (only for information that can not be given in any other field of the document) |
| trainingProgramme | | 0-* | we differentiate the notions of "basic" courses and training programmes because training programmes are composed of units. The differences between a course and a programme are: in a programme, -there are units -there is no "courseSession", but a "programmeSession" There are many elements in the programme's definition that will also be provided in the units' definitions : these elements are optional, and should be used only if they are more global than the information given in each unit. |
| @key | ID | 0-1 | optional identifier of the course (this key can be an internal id, or any text or number useful to identify the training) |

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| organism | (already defined) | 1-1 | |
| catalogue | (already defined) | 0-* | |
| domain | (already defined) | 0-* | |
| title | (already defined) | 1-1 | |
| code | (already defined) | 0-1 | |
| partnership | (already defined) | 0-1 | |
| objectives | (already defined) | 0-1 | |
| pointsDealtWith | (already defined) | 0-1 | |
| contentDescription | (already defined) | 0-1 | |
| modeOfOrganization | (already defined) | 1-1 | |
| prerequisites | (already defined) | 0-* | |
| pedagogicalMethods | (already defined) | 0-1 | |
| audience | (already defined) | 0-* | |
| courseMedia | (already defined) | 0-1 | |
| location | (already defined) | 0-* | |
| language | (already defined) | 1-* | |
| level | (already defined) | 1-1 | |
| evaluation | (already defined) | 0-1 | |
| certificatesOrDiplomas | (already defined) | 0-1 | |
| duration | (already defined) | 0-1 | |
| trainingContact | (already defined) | 0-* | |
| inscriptionContact | (already defined) | 0-* | |
| teacher | (already defined) | 0-* | |
| price | (already defined) | 0-1 | |
| priceComment | (already defined) | 0-1 | |
| paymentFacilities | (already defined) | 0-1 | |
| inscriptionConditions | (already defined) | 0-1 | |
| beginValidityDate | (already defined) | 1-1 | |
| endValidityDate | (already defined) | 1-1 | |
| keyword | (already defined) | 0-* | |
| slot | (already defined) | 0-* | |
| comment | (already defined) | 0-1 | |
| programmeSession | | 0-* | programme session's role is not to define when a programme will be realized but to distinguish different realizations of a programme; information on when trainings will take place will be given in the units sessions definitions. That is why it still contains some information about price or language, but no schedule. It also contains information used to differentiate the programme sessions. |
| sessionName | string | 1-1 | the sessionName element specifies the name of the session in the |

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| | | | programme description. Its role is to be able to find which session contains a unit session by giving its name. |
| dateInterval | (already defined) | 1-1 | dates between which the programme session is contained |
| language | (already defined) | 0-1 | |
| price | (already defined) | 0-1 | |
| priceComment | (already defined) | 0-1 | |
| location | (already defined) | 0-* | |
| slot | (already defined) | 0-* | |
| beginValidityDate | (already defined) | 1-1 | |
| endValidityDate | (already defined) | 1-1 | |
| comment | (already defined) | 0-1 | |
| unit | | 0-* | <p>Units are courses that are part of a programme. Elements from the definition of courses that are not in the definition of unit:</p> <ul style="list-style-type: none"> -organism -catalogue -domain -audience -certificatesOrDiplomas -inscriptionContact (elements relative to inscription or payment only concern the training programme) -price (elements relative to inscription or payment only concern the training programme) -price comment (elements relative to inscription or payment only concern the training programme) -payment facilities (elements relative to inscription or payment only concern the training programme) -inscriptionConditions (elements relative to inscription or payment only concern the training programme) -courseSession replaced by unitSession (they are different because in unitSessions it is necessary to provide a reference to the corresponding programmeSession) <p>Some other elements exist in both definitions, but they have a different cardinality : most elements in units are optional because they only need to be given if they are different from the values given in the training programme.</p> |
| @key | ID | 0-1 | optional identifier of the course (this key can be an internal id, or any text or number useful to identify the training) |
| title | (already defined) | 1-1 | |
| code | (already defined) | 0-1 | |
| partnership | (already defined) | 0-1 | |

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| objectives | (already defined) | 0-1 | |
| pointsDealtWith | (already defined) | 0-1 | |
| contentDescription | (already defined) | 0-1 | |
| modeOfOrganization | (already defined) | 0-1 | (optional: it doesn't need to be given if it is the same as in the training programme) |
| prerequisites | (already defined) | 0-* | |
| pedagogicalMethods | (already defined) | 0-1 | |
| courseMedia | (already defined) | 0-1 | |
| location | (already defined) | 0-* | |
| language | (already defined) | 0-* | (optional: it doesn't need to be given if it is the same as in the training programme) |
| level | (already defined) | 0-1 | (optional: it doesn't need to be given if it is the same as in the training programme) |
| evaluation | (already defined) | 0-1 | |
| duration | (already defined) | 0-1 | |
| trainingContact | (already defined) | 0-* | |
| teacher | (already defined) | 0-* | |
| beginValidityDate | (already defined) | 1-1 | |
| endValidityDate | (already defined) | 1-1 | |
| keyword | (already defined) | 0-* | |
| slot | (already defined) | 0-* | |
| comment | (already defined) | 0-1 | |
| unitSession | | 0-* | the only difference between a "unitSession" element and a "courseSession" element is that there is the name of the "programmeSession" in the "unitSession" |
| sessionName | (already defined) | 0-1 | Name of the session |
| programmeSessionName | string | 1 | the programme session which contain this unit session. |
| seance | (already defined) | 0-* | |
| textualCalendar | (already defined) | 0-1 | |
| dateInterval | (already defined) | 1-1 | |
| language | (already defined) | 1-1 | |
| price | (already defined) | 0-1 | |
| priceComment | (already defined) | 0-1 | |
| location | (already defined) | 0-1 | |
| slot | (already defined) | 1-1 | |
| teacher | (already defined) | 0-* | |
| beginValidityDate | (already defined) | 1-1 | |
| endValidityDate | (already defined) | 1-1 | |
| comment | (already defined) | 0-1 | |