P20W Education Standards Council

Implementation Guide

Academic Credential & Experiential Learning

Version 1.0

November 2016
Mei Hung (meihung@stanford.edu)
## Version History

<table>
<thead>
<tr>
<th>Version</th>
<th>Date</th>
<th>Changed By</th>
<th>Changes</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.0</td>
<td>October 2016</td>
<td>Mei Hung</td>
<td>Initial version submitted for PESC review and approval</td>
</tr>
<tr>
<td>1.0</td>
<td>November 2016</td>
<td>Mei Hung</td>
<td>Added message contributed by Jim Farmer</td>
</tr>
<tr>
<td>1.0</td>
<td>December 2016</td>
<td>Mei Hung</td>
<td>Updates based on latest CoreMain, AcademicRecord, and iso_3166 libraries.</td>
</tr>
</tbody>
</table>
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1 Introduction

Considering that the rise of a more skilled and more demanding workforce requires stronger and more targeted talent and skills, the Academic Credential and Experiential Learning Task Force has been focused on the emergence of innovative ideas and processes that might better capture potential skills and talents not included in the traditional digital record. "As registrars, many of us struggle constantly to maintain consistency in the face of faculty and student demands for a more comprehensive credential that documents the student academic experience in greater depth," Dr. Rodney Parks,Registrar at Elon University, states in
winning PESC’s 16th Annual Best Practices Competition. The final mission of the Task Force with its goals and outputs will be determined by the Task Force as it prepares for its inaugural meeting. Initial tasks include:

- serving as a resource for the education community and archiving all relevant articles, statuses and regulations, guides, and references developed throughout the sector by various stakeholders;
- identifying and monitoring emerging innovations, best practices, and prototypes to ensure awareness and transparency; and,
- collaborating with all other stakeholders that are leading the space in academic credential and experiential learning.

The current transcript, designed to record learning in the form of course enrollments, course credits, and grades, is no longer a sufficiently robust approach to satisfy the needs of the modern learner. Higher Education institutions have long adopted the Carnegie Unit as a policy which specifies that learning be recorded in the form of time. The GPA (grade point average), a calculation based on that standard, was commonly used to demonstrate a student’s achievement. While the transcript and the Carnegie Unit have served the academy well for over a hundred years, changes in pedagogy and technology have caused a greater awareness that learning should not be measured just as course credits and grades, but should be more descriptive. Learning outcomes and a variety of other assessment methods are a means to describe learning more in the form of skills, capacities, and abilities mastered.

While there are new ideas about what should be recorded, higher education has not coalesced around a single approach, or even a handful of approaches. It will take time to come to broad agreement on the best way to describe and record the learning that takes place on campuses. Further, non-curricular or experiential learning, arguably counting among the most important activities in which students can engage, is increasingly considered worthy of noting and recording alongside the curricular learning that leads to majors and minors and, ultimately, degrees.

Starting over twenty-five years ago, transcript and course inventory standards were promulgated to enable the portability of the established records of the academy as data. EDI, XML, and PDF formats have been employed in a variety of use cases to make data exchange common at least within higher education. Certainly, many students benefit from the ease with which courses and credit information can be shared between institutions. And the use of the PDF format has made it easier for the exchange of student achievement information with third parties outside higher education.

Thus, it is not too early to think about how to capture and convey learning data that describes experiential learning alongside one of its most common expressions of acknowledgment, the certificate credential. Paper certificate credentials have been in existence for centuries and are used by many organizations and institutions to recognize participation, completion, or achievement. However, there is no standard at present enabling the electronic exchange of information related to the certificate credential. Thus, it is hereby proposed that the following XML standard begin to serve as a means both to create the digital form of the certificate credential and to embed within it the information that the certificate credential recognizes. Certainly this credential standard could be adopted to convey diploma information as well. The principal value proposition for a digital credential is to convey to the learner what (s)he has learned or achieved, but it must also provide a standardized form for the learner so that the personal data it contains may be more easily controlled and shared with others using certification and authorization technology commonly available today.
# Development History

1) The Board of Directors of PESC announced the formation of an interorganizational Task Force focused on Academic Credentialing and Experiential Learning at the PESC Spring 2015 Data Summit ED Data Systems (April 28-30, 2015).


2) Discussion of the “emerging best practices in academic credentialing and experiential learning” at the 2nd Annual Global Symposium and Summit (October 14-16, 2015).

   - http://www.pesc.org/interior.php?page_id=244

3) Academic credentialing and experiential learning task force presented the "business case for the development of a PESC standard in xml for supporting credentialing and experiential learning records and for enhancing data exchange mobility" and introduced alternative framework for learning outcome skills mapping at the Spring 2016 data summit (April 13-15, 2016).


4) (Submitted by Jim Farmer, Instructional Media + Magic Inc.) The discussion draft was prepared for the PESC Fall 2016 Symposium and Data Summit held October 12-14 in San Diego, California. It was presented and discussed at the Thursday session of the Academic Credentialing and Experiential Learning Task Force and Common Credential. Thomas C. Black, Associate Vice Provost and Stanford University Registrar, and Mei Hung, Application Developer, Stanford University, demonstrated a prototype implementation that Mei Hung had developed for certificates.

   During the discussion, it was suggested that the proposed specification be made available to the HR (Human Resources) Open Standards organization and interested employers. The HR Technology Conference held the previous week had several presentations of Automated Tracking Systems used for the recruiting process. Algorithms are being developed and used to make decisions during the evaluation process. These systems may work more effectively if digital versions of materials, such as PESC’s electronic transcript and ePortfolio and the credentials specification described in this document, are widely implemented. This document is being shared with employers and those informal contacts are continuing.

   In an earlier email to the Task Force and others, Alex Jackl, Bardic Systems Inc., had summarized the comments on the XML specification and the XML Schema (XSD) that implements an evaluation of compliance with the standard. Those comments led to changes incorporated in this draft specification.

   Executive Director Michael Sessa said that the Task Force expects to complete their work and, following a Public Comment Period, present the proposed standard for approval at the Spring 2017 Symposium and Data Summit to be held May 3-5, 2017, in Washington DC.

   In an email, Sessa described the process:

   “A proposed standard, once all the development work is successfully completed, is posted online at www.pesc.org. Included in each proposed standard are the Implementation Guide, XML Schema and Sample Instance Document. All comments from the education community and the general public must be made by email to PESC President & CEO at Michael.Sessa@PESC.org. Public comments can address any and/or all part of the standard being proposed.”
With this instruction, the Task Force and publisher Stanford University have been gracious and willing to make this document publicly available. Hopefully, this additional distribution encourages readers to participate in the Public Comment Period and perhaps attend the PESC Spring Summit where final changes in the document will be made and the discussion turns to implementation of the standard.

This document is being provided to interested HR software developers and employers as well as higher education.

3 Acknowledgments

Contributors:

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Michael Morris  ACT
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Jim Farmer  Instructional Media + Magic Inc.
Susan McCrackin  Collegeboard.org
Patrick Elliott  University of Maryland University College
W. Matt Bemis  University of Southern California
Jack Weber  Credentials Solutions
Rajeev Arora  Parchment
Jeffrey Alderson  Eduventures
David Moldoff  AcademyOne
Steven Margenau  Great Lakes Educational Loan Services
Paul Baldridge  Great Lakes Educational Loan Services
Mei Hung  Stanford University
4 Other Standards or Schema Referenced

This standard references the following PESC standards, specifications, and schemas:

- Core Main (http://www.pesc.org/interior.php?page_id=181)
- College Transcript (http://www.pesc.org/interior.php?page_id=164)
- Education Course Inventory (http://www.pesc.org/interior.php?page_id=243)

5 Terminology

To ensure clarity and consistency, below are definitions of the terminology used in the context of this Guide:

- AwardEndorse: Official approver of the credential award.
- LearningOutcomeSkillCode: Learning outcome skill based on DQP intellectual skills.
- LearningOutcomeProficiency: Assessment of learning proficiency.
- AlternateOutcomeFramework: The alternative skill mappings associated with learning outcomes.
- ContinuingEducationUnits (CEUs): One CEU equals ten hours of participation.
- AcademicAwardLevel: The credential award classification is illustrated as below.
- DQP (Degree Qualification Profile - http://degreeprofile.org): A set of reference points for what students should know and be able to do upon completion of associate, bachelor’s and master’s degrees – in any field of study.
- CEDS (Common Education Data Standards - https://ceds.ed.gov/dataModelEntities.aspx): The schema elements in the standard are aligned with data element definition in CEDS.
Following is an illustration of the AcademicAwardLevelType tag.

6 Schema Organization, Format, and Implementation

The Academic Credential and Experiential Learning schema is designed for:

- Credential records for both traditional academic learning and extra- and co-curricular experience
- Learning record data exchange and mobilization
- Records for credential artifact generation and presentation
- Expression of the contents of the program as learning outcomes and learning reflection
- Learning outcome proficiency assessment
- Learning outcome mapping to alternative systems such as HR system, Higher Ed student records system.
- Both PreK, K-12 and Work Force eco-systems as well as Higher Education

The schema includes the components of Academic Program, Academic Session, and College Transcript Course and it is structured to support the needs of both academic and experiential learning records. It also serves the purpose of data transmission using the Transcript Request and Response standard. The schema supports credential artifact generation and presentation.
7 Overview of Academic Credential and Experiential Learning Components

The standard proposes modifications based on the latest versions of CoreMain, AcademicRecord, and iso_3166 libraries.

The schema is composed of 3 main sections:

1. **Transmission Data Section**: This section uses the existing [PESC Request and Response of the XML Transcript standard](http://www.pesc.org/interior.php?page_id=174) and is for conveying data to other systems. It describes the requesting source, which is an education institute, and the destination, which indicates the school or an organization receives the document.

2. **Document Production Section**: The section describes information for generating artifacts to present learning records. An artifact is a visual presentation of the learning result credential. It also describes the document format, such as XML, PDF, or PDF with attachment.

3. **Credential Learning Record Detail Section**: This section describes acknowledgment of credential learning records and expression of learning that is more explicit in terms of intellectual skills, outcomes, goals, or capacities. Learning outcomes can be assessed and can be mapped to alternative vocabularies defined in other frameworks.

The components of the schema are displayed below:

![Diagram of the schema components]

7.1 TransmissionData

**LearningRecord/TransmissionData**

**PESC Request Implementation Guide**
[http://www.pesc.org/library/docs/standards/College%20Transcript/XMLtranREQUESTigV1-2-0.pdf]

**PESC Negative Response Implementation Guide**
[http://www.pesc.org/library/docs/standards/College%20Transcript/XMLTRA_x007E_1.pdf]
7.2 DocumentProduction

The Document Production component is designed for learning records artifact generation. The artifact holds the proof for credential awards including the standard elements of student identification data, including award title and program award endorsement information. With this information, the organization has the ability to design the credential artifact in forms including image, PDF, or Word document.
7.3 LearningRecordDetail

LearningRecordDetail component provides a structure for holding Academic Credential and Experiential Learning records. It is used to hold a learner’s identification record and both the traditional academic learning records as well as extra- and co-curricular experience records.

7.4 AcademicLearning

The AcademicLearning element provides a structure for storing learning records. The learning records can be academic, co-curricular, and extracurricular activities records.

The information is credited in elements shown in the following:

- A credential program is provided by accredited organizations, such as a school or a department.
- A credential award should specify the level of the degree, certificate, or award granted for the successful completion of requirements of an academic program. Summary Type information (child of Academic Award) can also indicate if the award is credited to an academic degree.
- An Achievement Category is the category of the area in which achievement was earned.
- The Program Instruction Method is used for program and the courses.
- The Performance Evidence is a website location which keeps the result or products from the learning activities. It can be a community services reflection, project research document, or portfolio data.
- Learning Program is the plan of series courses learning and/or extracurricular activities. Program Outcomes Description identifies what the learner knows and is able to do at the end of the program.
- Academic Session holds information regarding courses taken by a learner and/or holds the learning experiences and reflection expressed by the learner during the session period.
- A course’s learning outcome describes in a comprehensive way what a student should be expected to demonstrate as a result of taking the course.
- A course learning outcome can be assessed based on the categories of proficiencies defined DQP.
- A course learning outcome has mapping to alternative vocabularies from third parties or career-building sites that can easily utilize learning outcomes as student capabilities.
## 8 Academic Credential and Experiential Learning Details

### 8.1 Elements

<table>
<thead>
<tr>
<th>Elements</th>
<th>Complex types</th>
</tr>
</thead>
<tbody>
<tr>
<td>LearningRecord</td>
<td>LearningRecordType</td>
</tr>
<tr>
<td>Mentor</td>
<td>EndorseType</td>
</tr>
<tr>
<td>AwardEndorse</td>
<td>EndorseType</td>
</tr>
<tr>
<td>SponsorOrganization</td>
<td>AcRec:OrganizationType</td>
</tr>
<tr>
<td>PerformanceEvidence</td>
<td>URLType</td>
</tr>
</tbody>
</table>

### 8.2 Types

<table>
<thead>
<tr>
<th>Complex types</th>
<th>Simple types</th>
</tr>
</thead>
<tbody>
<tr>
<td>DocumentProductionType</td>
<td>LearningTopicType</td>
</tr>
<tr>
<td>EndorseType</td>
<td>LearningOutcomeDescriptionType</td>
</tr>
<tr>
<td>LearningRecordDetailType</td>
<td>LearningOutcomeSkillCodeType</td>
</tr>
<tr>
<td>AcademicLearningType</td>
<td>LearningOutcomeProficiencyCodeType</td>
</tr>
<tr>
<td>LearningProgramType</td>
<td>FrameworkOutcomeIdType</td>
</tr>
<tr>
<td>AcademicSessionType</td>
<td>FrameworkOutcomeValue</td>
</tr>
<tr>
<td>CourseType</td>
<td>DocumentTypeCodeType</td>
</tr>
<tr>
<td>CourseInstructorType</td>
<td>PlacementLocation</td>
</tr>
<tr>
<td>LearningOutcomeType</td>
<td>LearningReflection</td>
</tr>
<tr>
<td>LearningOutcomeQualificationAssessmentType</td>
<td>AcademicAwardLevel</td>
</tr>
<tr>
<td>AlternateOutcomeFrameworkType</td>
<td></td>
</tr>
<tr>
<td>FrameworkOutcomeType</td>
<td></td>
</tr>
<tr>
<td>LearningExperienceType</td>
<td></td>
</tr>
</tbody>
</table>
### 8.3 Schema Diagrams

#### LearningRecord

<table>
<thead>
<tr>
<th>type</th>
<th>LearningRec:LearningRecordType</th>
</tr>
</thead>
<tbody>
<tr>
<td>properties</td>
<td>content complex</td>
</tr>
<tr>
<td>children</td>
<td>TransmissionData DocumentProduction LearningRecordDetail NoteMessage UserDefinedExtensions</td>
</tr>
<tr>
<td>annotation</td>
<td>documentation</td>
</tr>
</tbody>
</table>

The root element of the credential and experiential learning message

```xml
<xs:element name="LearningRecord" type="LearningRec:LearningRecordType">
  <xs:annotation>
    <xs:documentation>The root element of the credential and experiential learning message</xs:documentation>
  </xs:annotation>
</xs:element>
```
**LearningRecordType**

<table>
<thead>
<tr>
<th>children</th>
</tr>
</thead>
<tbody>
<tr>
<td>TransmissionData DocumentProduction LearningRecordDetail NoteMessage UserDefinedExtensions</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>used by</th>
</tr>
</thead>
<tbody>
<tr>
<td>element LearningRecord</td>
</tr>
</tbody>
</table>

```xml
<xs:complexType name="LearningRecordType">
    <xs:annotation/>
    <xs:sequence>
        <xs:element name="TransmissionData" type="AcRec:TransmissionDataType" minOccurs="0" maxOccurs="unbounded">
            <xs:annotation/>
            <xs:documentation>Routing and header information</xs:documentation>
        </xs:element>
        <xs:element name="DocumentProduction" type="AcRec:DocumentProductionType" minOccurs="0">
            <xs:annotation/>
            <xs:documentation>Information for credential document generation</xs:documentation>
        </xs:element>
        <xs:element name="LearningRecordDetail" type="AcRec:LearningRecordDetailType">
            <xs:annotation/>
            <xs:documentation>Credential and experiential Learning Record for a student</xs:documentation>
        </xs:element>
        <xs:element name="NoteMessage" type="core:NoteMessageType" minOccurs="0" maxOccurs="unbounded">
            <xs:annotation/>
            <xs:documentation>Additional information about experiential learning</xs:documentation>
        </xs:element>
    </xs:sequence>
</xs:complexType>
```
### DocumentProductionType

**Diagram**

![Diagram of DocumentProductionType](image)

**Children**
- ElectronicFormat
- DocumentTypeCode
- Person
- AcademicAward
- AwardEndorse

**Used by**
- element: LearningRecord/DocumentProduction

**Annotation**
- documentation: Information for credential document generation

```xml
<xs:complexType name="DocumentProductionType">
  <xs:documentation>Information for credential document generation</xs:documentation>
  <xs:sequence>
    <xs:element name="ElectronicFormat" type="AcRec:ElectronicFormatType" minOccurs="0" maxOccurs="unbounded"/>
    <xs:element name="DocumentTypeCode" type="core:DocumentTypeCodeType" minOccurs="0" maxOccurs="unbounded"/>
    <xs:element name="Person" type="AcRec:PersonType"/>
    <xs:element name="AcademicAward" type="AcRec:AcademicAwardType" minOccurs="0" maxOccurs="unbounded"/>
    <xs:element name="AwardEndorse" type="core:EndorseType" minOccurs="0" maxOccurs="unbounded"/>
  </xs:sequence>
</xs:complexType>
```
<table>
<thead>
<tr>
<th>Diagram</th>
</tr>
</thead>
</table>
| **EndorseType**

- **Diagram**
  - **EndorseType**
    - **Department**
      - The department within and organization
    - **PositionTitle**
      - Job title or position of the contact at the endorsing organization
    - **Name**
      - The name of record of the student at the sending institution

- **Children**
  - **Department**, **PositionTitle**, **Name**

- **Used by**
  - **DocumentProductionType/AwardEndorse**, **LearningExperienceType/Mentor**

---

<table>
<thead>
<tr>
<th>DocumentProductionType/AwardEndorse</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Diagram</strong></td>
</tr>
<tr>
<td><img src="image" alt="Diagram of EndorseType" /></td>
</tr>
</tbody>
</table>

- **Type**
  - `core:EndorseType`

- **Properties**
  - `minOcc`: 0
  - `maxOcc`: unbounded
  - `content`: complex

- **Children**
  - **Department**, **PositionTitle**, **Name**

- **Annotation**
  - Information about the endorsement of an academic award

- **Source**
  ```xml
  <xs:element name="AwardEndorse" type="core:EndorseType" minOccurs="0" maxOccurs="unbounded">
    <xs:annotation>
      <xs:documentation>Information about the endorsement of an academic award</xs:documentation>
    </xs:annotation>
  </xs:element>
  ```

---

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**EndorseType**

- **Info of a Person who endorses a diploma, a program or a certificate**

- **Department**
  - *The department within and organization*

- **PositionTitle**
  - *Job title or position of the contact at the endorsing organization*

- **Name**
  - *The name of record of the student at the sending institution*
A type specifying the details of a learning experience

```xml
<xs:complexType name="LearningRecordDetailType">
  <xs:annotation>
    <xs:documentation>A type specifying the details of a learning experience</xs:documentation>
  </xs:annotation>
  <xs:sequence>
    <xs:element name="Person" type="AcRec:PersonType">
      <xs:annotation>
        <xs:documentation>Biographical and demographic information about the student.</xs:documentation>
      </xs:annotation>
    </xs:element>
    <xs:element name="AcademicLearning" type="AcRec:AcademicLearningType"
      minOccurs="0" maxOccurs="unbounded">
      <xs:annotation>
        <xs:documentation>Program and course information for Learning Records</xs:documentation>
      </xs:annotation>
    </xs:element>
    <xs:element name="NoteMessage" type="core:NoteMessageType"
      minOccurs="0" maxOccurs="unbounded">
      <xs:annotation>
        <xs:documentation>Additional information about transcript</xs:documentation>
      </xs:annotation>
    </xs:element>
    <xs:element name="UserDefinedExtensions" type="core:UserDefinedExtensionsType"
      minOccurs="0">
      <xs:annotation>
        <xs:documentation>Additional structured information. Requires mutually defined XML schema.</xs:documentation>
      </xs:annotation>
    </xs:element>
  </xs:sequence>
</xs:complexType>
```
Extend from `core:AcademicProgramType` in order to describe learning program and the learning outcomes

- **School**
  - Override school

- **Department**
  - The department within and organization

- **AcademicAward**
  - Academic awards, degrees, diplomas, certifications, etc.

- **AchievementCategoryCode**
  - Category for the achievement

- **ProgramInstructionMethod**
  - Method used for instruction.

- **PerformanceEvidence**
  - A URL of a web location that hosts a learner’s work results.

- **LearningProgram**
  - Information about the academic program Extend from `core:AcademicProgramType` in order to describe learning program and the learning outcomes

- **AcademicSession**
  - Information about an academic session

- **NoteMessage**
  - Additional information about transcript

- **UserDefinedExtensions**
  - Additional structured information. Requires mutually defined XML schema.

---

**children**

- School
- Department
- AcademicAward
- AchievementCategoryCode
- ProgramInstructionMethod
- PerformanceEvidence
- LearningProgram
- AcademicSession
- NoteMessage
- UserDefinedExtensions

**used by**

- element `LearningRecordDetailType/AcademicLearning`

**annotation**

- documentation
  
  Extend from `core:AcademicProgramType` in order to describe learning program and the learning outcomes
source

```xml
<xs:complexType name="AcademicLearningType">
  <xs:annotation>
    <xs:documentation>Extend from core:AcademicProgramType in order to describe learning program and the learning outcomes</xs:documentation>
  </xs:annotation>
  <xs:sequence>
    <xs:element name="School" type="AcRec:SchoolType" minOccurs="0">  
      <xs:annotation>
        <xs:documentation>Override school</xs:documentation>
      </xs:annotation>
    </xs:element>
    <xs:element name="Department" type="AcRec:OrganizationType" minOccurs="0">
      <xs:annotation>
        <xs:documentation>The department within and organization</xs:documentation>
      </xs:annotation>
    </xs:element>
    <xs:element name="AcademicAward" type="AcRec:AcademicAwardType" minOccurs="0" maxOccurs="unbounded">
      <xs:annotation>
        <xs:documentation>Academic awards, degrees, diplomas, certifications, etc.</xs:documentation>
      </xs:annotation>
    </xs:element>
    <xs:element name="AchievementCategoryCode" type="AcRec:AchievementCategoryCodeType" minOccurs="0" maxOccurs="unbounded">
      <xs:annotation>
        <xs:documentation>Category for the achievement</xs:documentation>
      </xs:annotation>
    </xs:element>
    <xs:element name="ProgramInstructionMethod" type="core:CourseInstructionMethodType" minOccurs="0">
      <xs:annotation>
        <xs:documentation>Method used for instruction.</xs:documentation>
      </xs:annotation>
    </xs:element>
    <xs:element name="PerformanceEvidence" type="core:URLType" minOccurs="0" maxOccurs="unbounded">
      <xs:annotation>
        <xs:documentation>A URL of a web location that hosts a learner's work results.</xs:documentation>
      </xs:annotation>
    </xs:element>
    <xs:element name="LearningProgram" type="AcRec:LearningProgramType" minOccurs="0" maxOccurs="unbounded">
      <xs:annotation>
        <xs:documentation>Information about the academic program Extend from core:AcademicProgramType in order to describe learning program and the learning outcomes</xs:documentation>
      </xs:annotation>
    </xs:element>
    <xs:element name="AcademicSession" type="AcRec:AcademicSessionType" minOccurs="0" maxOccurs="unbounded">
      <xs:annotation>
        <xs:documentation>Information about an academic session</xs:documentation>
      </xs:annotation>
    </xs:element>
  </xs:sequence>
</xs:complexType>
```
<xs:element name="NoteMessage" type="core:NoteMessageType" minOccurs="0" maxOccurs="unbounded">
  <xs:documentation>Additional information about transcript</xs:documentation>
</xs:element>

<xs:element name="UserDefinedExtensions" type="core:UserDefinedExtensionsType" minOccurs="0" maxOccurs="unbounded">
  <xs:documentation>Additional structured information. Requires mutually defined XML schema.</xs:documentation>
</xs:element>
LearningProgramType
diagram

- ProgramSecondarySchoolCode: Code indicating the type of secondary school program or award that a student is pursuing.
- ProgramCIPCode: Code indicating a discipline or field of study assigned by the Classification of Instructional Programs for Postsecondary Institutions.
- ProgramCISCode: Code indicating a discipline or field of study assigned by Statistics Canada's Canadian College and University Student Information System.
- ProgramSISCode: Code indicating a discipline or field of study assigned by the Statistics Canada University Student Information System.
- ProgramLocalCode: This is a code typically created and used within a school or school district.

- AcademicProgramType: Indicates whether the academic program is a major, minor, area of concentration or specialization.
- AcademicProgramName: Literal name of program, major, or field of study.
- NoteMessage: Additional information about the Academic Program.
- ProgramSummary: Summary information about the Academic Award Program.
- ProgramDescription: A short description of a learning program.
- LearningOutcome: Information about the results of an education experience.

type: extension of core:AcademicProgramType
properties

base core:AcademicProgramType

children

ProgramSecondarySchoolCode ProgramCIPCode ProgramHEGISCode ProgramCSISCCode ProgramUSISCCode ProgramESISCode ProgramLocalCode AcademicProgramType AcademicProgramName NoteMessage ProgramSummary ProgramDescription LearningOutcome UserDefinedExtensions

used by

element AcademicLearningType/LearningProgram

annotation
documentation

Extend from core:AcademicProgramType in order to describe learning program and the learning outcomes

source

<xs:complexType name="LearningProgramType">
  <xs:annotation>
    <xs:documentation>Extend from core:AcademicProgramType in order to describe learning program and the learning outcomes</xs:documentation>
  </xs:annotation>
  <xs:complexContent>
    <xs:extension base="core:AcademicProgramType">
      <xs:sequence>
        <xs:element name="ProgramSummary" type="AcRec:AcademicSummaryBaseType" minOccurs="0" maxOccurs="unbounded">
          <xs:annotation>
            <xs:documentation>Summary information about the Academic Award Program</xs:documentation>
          </xs:annotation>
        </xs:element>
        <xs:element name="ProgramDescription" type="xs:string" minOccurs="0">
          <xs:annotation>
            <xs:documentation>A short description of a learning program</xs:documentation>
          </xs:annotation>
        </xs:element>
        <xs:element name="LearningOutcome" type="core:LearningOutcomeType" minOccurs="0" maxOccurs="unbounded">
          <xs:annotation>
            <xs:documentation>Information about the results of an education experience</xs:documentation>
          </xs:annotation>
        </xs:element>
        <xs:element name="UserDefinedExtensions" type="core:UserDefinedExtensionsType" minOccurs="0">
          <xs:annotation>
            <xs:documentation>Additional structured information. Requires mutually defined XML schema.</xs:documentation>
          </xs:annotation>
        </xs:element>
      </xs:sequence>
    </xs:extension>
  </xs:complexContent>
</xs:complexType>
**AcademicSessionType**

**Diagram**

- **AcademicSessionDetail**
  - Information identifying the time period for the beginning of this session

- **School**
  - Override School

- **StudentLevel**
  - An indication of the classification of the student at the time of this Academic Session

- **AcademicProgram**
  - The major or degree objectives for the student at the time of this session

- **AcademicAward**
  - Academic awards associated with this session

- **Course**
  - Education courses associated with this session

- **LearningExperience**
  - Information about a learning experience

- **AcademicSummary**
  - Academic summary for this session

- **AttendanceCount**
  - Attendance recorded as days (or partial days) present or absent

- **UserDefinedExtensions**
  - This is a mini schema of previously agreed upon formatted data about the session. It is used by a group of previously agreed upon users, frequently within a state or among the users of a particular vendor

- **NoteMessage**
  - Additional information about the academic session

**Children**

- AcademicSessionDetail
- School
- StudentLevel
- AcademicProgram
- AcademicAward
- Course
- LearningExperience
- AcademicSummary
- AttendanceCount
- UserDefinedExtensions
- NoteMessage
### AcademicSessionType

#### Annotation

Course, award and summary information related to a specific time period. Typically arranged into successive semesters or school years and is the preferred method for conveying academic coursework.

#### Source

```xml
<xs:complexType name="AcademicSessionType">
  <xs:annotation>
    <xs:documentation>
      Course, award and summary information related to a specific time period. Typically arranged into successive semesters or school years and is the preferred method for conveying academic coursework.
    </xs:documentation>
  </xs:annotation>
  <xs:sequence>
    <xs:element name="AcademicSessionDetail" type="core:AcademicSessionDetailType"/>
    <xs:element name="School" type="AcRec:SchoolType" minOccurs="0"/>
    <xs:element name="StudentLevel" type="core:StudentLevelType" minOccurs="0"/>
    <xs:element name="AcademicProgram" type="AcRec:AcademicProgramType" minOccurs="0" maxOccurs="unbounded"/>
    <xs:element name="AcademicAward" type="AcRec:AcademicAwardType" minOccurs="0" maxOccurs="unbounded"/>
    <xs:element name="Course" type="AcRec:CourseType" minOccurs="0" maxOccurs="unbounded"/>
    <xs:element name="LearningExperience" type="AcRec:LearningExperienceType" minOccurs="0" maxOccurs="unbounded"/>
  </xs:sequence>
</xs:complexType>
```
<xs:documentation>Information about a learning experience</xs:documentation>
</xs:element>

<xs:element name="AcademicSummary" type="AcRec:AcademicSummaryFType"
minOccurs="0" maxOccurs="unbounded">
  <xs:annotation>
    <xs:documentation>Academic summary for this session</xs:documentation>
  </xs:annotation>
</xs:element>

<xs:element name="AttendanceCount" type="core:AttendanceCountType"
minOccurs="0">
  <xs:annotation>
    <xs:documentation>Attendance recorded as days (or partial days) present or absent</xs:documentation>
  </xs:annotation>
</xs:element>

<xs:element name="UserDefinedExtensions" type="core:UserDefinedExtensionsType" minOccurs="0">
  <xs:annotation>
    <xs:documentation>This is a mini schema of previously agreed upon formatted data about the session. It is used by a group of previously agreed upon users, frequently within a state or among the users of a particular vendor</xs:documentation>
  </xs:annotation>
</xs:element>

<xs:element name="NoteMessage" type="core:NoteMessageType" minOccurs="0"
maxOccurs="unbounded">
  <xs:annotation>
    <xs:documentation>Additional information about the academic session</xs:documentation>
  </xs:annotation>
</xs:element>
</xs:sequence>
</xs:complexType>
children
CourseCreditBasis CourseCreditUnits CourseCreditLevel CourseCreditValue CourseCreditEarned CourseAcademicGradeStatusCode CourseAcademicGrade CourseSupplementalAcademicGrade CourseAcademicGradeValue CourseAcademicGradeScaleCode CourseNarrativeExplanationGrade CourseRepeatCode CourseCIPCode CourseCSISSequenceCode CourseUSISCode CourseNCESCode CourseSCEDCode CourseSubjectAreaCode CourseQualityPointsEarned CourseLevel CourseGPAApplicabilityCode CourseSubjectAbbreviation CourseNumber CourseSectionNumber OriginalCourseID AgencyCourseID CourseTitle CourseDescription CourseAddDate CourseDropDate CourseOverrideSchool OverrideSchoolCourseNumber CourseApplicability CourseBeginDate CourseEndDate CourseInstructionSite CourseInstructionSiteName Requirement Attribute Proficiency Licensure LanguageOfInstruction CourseInstructionMethod CourseInstructor LearningTopic LearningOutcome NoteMessage UserDefinedExtensions

used by
elements
AcademicRecordType/Course AcademicSessionType/Course TransferCreditType/TransferCoursesAccepted

annotation
documentation
Academic coursework not related to a specific academic session.

source
<xs:complexType name="CourseType">
  <xs:annotation>
    <xs:documentation>Academic coursework not related to a specific academic session.</xs:documentation>
  </xs:annotation>
  <xs:sequence>
    <xs:element name="CourseCreditBasis" type="core:CourseCreditBasisType" minOccurs="0"/>
    <xs:element name="CourseCreditUnits" type="core:CourseCreditUnitsType" minOccurs="0"/>
    <xs:element name="CourseCreditLevel" type="core:CourseCreditLevelType" minOccurs="0"/>
    <xs:element name="CourseCreditValue" type="core:CourseCreditValueType" minOccurs="0"/>
    <xs:element name="CourseCreditEarned" type="core:CourseCreditEarnedType" minOccurs="0"/>
    <xs:element name="CourseAcademicGradeScaleCode" type="core:CourseAcademicGradeScaleCodeType" minOccurs="0"/>
  </xs:sequence>
</xs:complexType>
The grading scale used by an academic educational institution for an academic course.

The final grade awarded for participation in the course.

Grades that are reported, which combine to make the final grade in a course.

Special enrollment or completion status of this course.

The narrative of the grade awarded to a student in an academic course in those cases where a course does not receive a letter or numeric grade included in the grading scale of the Course Academic Grade Qualifier.

Indicates that an academic course has been repeated by a student and how that repeat is to be computed in the student's academic grade average.

The Classification of Instructional Programs (CIP) code to describe the area of study for the course.

The Statistics Canada Canadian College Student Information System (CCSIS) code to describe the area of study for the course.
<xs:element name="CourseUSISCode" type="core:CourseUSISCodeType" minOccurs="0">
  <xs:annotation>
    <xs:documentation>The Statistics Canada University Student Information System (USIS) code to describe the area of study for the course.</xs:documentation>
  </xs:annotation>
</xs:element>

<xs:element name="CourseNCESCode" type="core:CourseNCESCodeType" minOccurs="0">
  <xs:annotation>
    <xs:documentation>The code set developed (or being developed) by the United States Department of Education's National Center for Education Statistics for the Classification of Secondary School Courses</xs:documentation>
  </xs:annotation>
</xs:element>

<xs:element name="CourseSCEDCode" type="core:CourseSCEDCodeType" minOccurs="0">
  <xs:annotation>
    <xs:documentation>The School Codes for the Exchange of Data (SCED) code set being developed for the United States Department of Education's National Center for Education Statistics to describe the content and level of a course</xs:documentation>
  </xs:annotation>
</xs:element>

<xs:element name="CourseFiveDigitSCEDCode" type="core:CourseFiveDigitSCEDCodeType" minOccurs="0">
  <xs:annotation>
    <xs:documentation>This set of code values is derived from the first five digits of the CourseSCEDCode above.</xs:documentation>
  </xs:annotation>
</xs:element>

<xs:element name="CourseSubjectAreaCode" type="core:CourseSubjectAreaCodeType" minOccurs="0">
  <xs:annotation>
    <xs:documentation>This set of code values is derived from the first two digits of the CourseSCEDCode above.</xs:documentation>
  </xs:annotation>
</xs:element>

<xs:choice>
  <xs:element name="CourseQualityPointsEarned" type="core:CourseQualityPointsEarnedType" minOccurs="0">
    <xs:annotation>
      <xs:documentation>The numerical value assigned to a letter grade to provide a basis of quantitative determination of an average.</xs:documentation>
    </xs:annotation>
  </xs:element>

  <xs:element name="CourseLevel" type="core:CourseLevelType" minOccurs="0">
    <xs:annotation>
      <xs:documentation>The level of work demonstrated by successful completion of the academic course being described</xs:documentation>
    </xs:annotation>
  </xs:element>

  <xs:element name="CourseGPAApplicabilityCode" type="core:CourseGPAApplicabilityCodeType" minOccurs="0">
    <xs:annotation>
      <xs:documentation></xs:documentation>
    </xs:annotation>
  </xs:element>
</xs:choice>
An indicator of whether or not this course being described is included in the computation of the student's Grade Point Average, and if so, if it weighted differently from regular courses.

The alphabetic abbreviation of the academic department or discipline offering the course. It is one part of the total course identifier number.

The official reference number portion of a course identifier. This number frequently designates the level of the course as well as the level of the student expected to enroll in the course.

The number assigned to differentiate among distinct occurrences of courses that have the same course abbreviation and number but may be considered to be different. For example, it could be used to identify the instructor.

The course ID as it was listed when the credit was earned (e.g. before a system conversion) to show consistency between present transcripts and older ones.

The course ID that might have been assigned to this course by the state or other agency.

The name or title of the course taken by a student at an academic institution.

Course Description
<xs:maxLength value="255"/>
<xs:minLength value="1"/>
</xs:restriction>
</xs:simpleType>
</xs:element>
<xs:element name="CourseAddDate" type="core:CourseAddDateType"
minOccurs="0">
  <xs:annotation>
    <xs:documentation>The date a student was added to an academic course at a school.</xs:documentation>
  </xs:annotation>
</xs:element>
<xs:element name="CourseDropDate" type="core:CourseDropDateType"
minOccurs="0">
  <xs:annotation>
    <xs:documentation>The date on which the student drops or withdraws from the course.</xs:documentation>
  </xs:annotation>
</xs:element>
<xs:element name="CourseOverrideSchool" type="AcRec:SchoolType"
minOccurs="0">
  <xs:annotation>
    <xs:documentation>The school where the credit was earned if different from the Academic Session School.</xs:documentation>
  </xs:annotation>
</xs:element>
<xs:element name="OverrideSchoolCourseNumber" type="core:OverrideSchoolCourseNumberType" minOccurs="0">
  <xs:annotation>
    <xs:documentation>The course ID as it was listed at the school where the credit was earned.</xs:documentation>
  </xs:annotation>
</xs:element>
<xs:element name="CourseApplicability" type="core:CourseApplicabilityType"
minOccurs="0">
  <xs:annotation>
    <xs:documentation>The academic program to which this academic course applies toward graduation.</xs:/documentation>
  </xs:annotation>
</xs:element>
<xs:element name="CourseBeginDate" type="core:CourseBeginDateType"
minOccurs="0">
  <xs:annotation>
    <xs:documentation>The official begin date for this course.</xs:documentation>
  </xs:annotation>
</xs:element>
<xs:element name="CourseEndDate" type="core:CourseEndDateType"
minOccurs="0">
  <xs:annotation>
    <xs:documentation>The official end date for this course.</xs:documentation>
  </xs:annotation>
</xs:element>
<xs:element name="CourseInstructionSite" type="core:CourseInstructionSiteType" minOccurs="0">
  <xs:annotation>
<table>
<thead>
<tr>
<th>Element</th>
<th>Type</th>
<th>MinOccurs</th>
<th>MaxOccurs</th>
</tr>
</thead>
<tbody>
<tr>
<td>CourseInstructionSiteName</td>
<td>core:CourseInstructionSiteNameType</td>
<td>0</td>
<td>unbounded</td>
</tr>
<tr>
<td>Requirement</td>
<td>core:RAPType</td>
<td>0</td>
<td>unbounded</td>
</tr>
<tr>
<td>Attribute</td>
<td>core:RAPType</td>
<td>0</td>
<td>unbounded</td>
</tr>
<tr>
<td>Proficiency</td>
<td>core:RAPType</td>
<td>0</td>
<td>unbounded</td>
</tr>
<tr>
<td>Licensure</td>
<td>core:LicensureType</td>
<td>0</td>
<td>unbounded</td>
</tr>
<tr>
<td>LanguageOfInstruction</td>
<td>core:LanguageOfInstructionType</td>
<td>0</td>
<td>unbounded</td>
</tr>
<tr>
<td>CourseInstructionMethod</td>
<td>core:CourseInstructionMethodType</td>
<td>0</td>
<td>unbounded</td>
</tr>
<tr>
<td>CourseInstructor</td>
<td>core:CourseInstructorType</td>
<td>0</td>
<td>unbounded</td>
</tr>
</tbody>
</table>

An indication of the type of location at which the course is taught.

The name of the location at which the course is taught.

Curriculum requirements satisfied by successful completion of this course.

Attributes of this course which may require special handling by the receiving institution.

Proficiency level signified by successful completion of this course.

Licensure requirements satisfied by successful completion of this course.

Language associated with one or more aspects of the course.

The method of instruction used for the course.

Course instructor title and name.
CourseInstructorType

<table>
<thead>
<tr>
<th>Diagram</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>PositionTitle</td>
<td>Title of this employment position</td>
</tr>
<tr>
<td>Name</td>
<td>The name of record of the student at the sending institution</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Children</th>
<th>PositionTitle, Name</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>Used by</th>
<th>CourseType/CourseInstructor</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>Annotation</th>
<th>The detailed information about the course instructor</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>Source</th>
<th>&lt;xs:complexType name=&quot;CourseInstructorType&quot;&gt; <a href="">xs:annotation</a> <a href="">xs:documentation</a> The detailed information about the course instructor &lt;/xs:annotation&gt; <a href="">xs:sequence</a></th>
</tr>
</thead>
</table>
<xs:element name="PositionTitle" type="core:PositionTitleType"
minOccurs="0">
  <xs:annotation>
    <xs:documentation>Title of this employment position</xs:documentation>
  </xs:annotation>
</xs:element>

<xs:element name="Name" type="core:NameType" minOccurs="1">
  <xs:annotation>
    <xs:documentation>The name of record of the student at the sending institution</xs:documentation>
  </xs:annotation>
</xs:element>

</xs:sequence>
</xs:complexType>

---

**LearningOutcomeType**

**Diagram:**

![LearningOutcomeType diagram](image)

- **children:** `LearningOutcomeDescription LearningOutcomeQualificationAssessment AlternateOutcomeFramework`
- **used by:** `CourseType/LearningOutcome LearningProgramType/LearningOutcome`
- **annotation:**
  
  Program learning outcome and the outcome evaluations and alternative outcome mapping

**Source Code:**

```xml
<xs:complexType name="LearningOutcomeType">
  <xs:annotation>
    <xs:documentation>Program learning outcome and the outcome evaluations and alternative outcome mapping</xs:documentation>
  </xs:annotation>
  <xs:sequence>
    <xs:element name="LearningOutcomeDescription" type="core:LearningOutcomeDescriptionType">
      <xs:annotation>
        <xs:documentation>Program learning outcome and the outcome evaluations and alternative outcome mapping. The narrative of course learning outcomes.</xs:documentation>
      </xs:annotation>
    </xs:element>
    <xs:element name="LearningOutcomeQualificationAssessment" type="core:LearningOutcomeQualificationAssessmentType" minOccurs="0" maxOccurs="unbounded">
      <xs:annotation>
        <xs:documentation>A container to hold the alternative framework taxonomies that map to the learning outcome. Alternative framework associated with learning in outcome</xs:documentation>
      </xs:annotation>
    </xs:element>
    <xs:element name="AlternateOutcomeFramework">
      <xs:annotation>
        <xs:documentation>Information about the assessment used to evaluate a learning experience. Learning Outcome Assessment</xs:documentation>
      </xs:annotation>
    </xs:element>
  </xs:sequence>
</xs:complexType>
```
**LearningOutcomeQualificationAssessmentType**

<table>
<thead>
<tr>
<th>Diagram</th>
<th>LearningOutcomeQualificationAssessmentType</th>
</tr>
</thead>
<tbody>
<tr>
<td><img src="image-url" alt="Diagram" /></td>
<td>Assessment of learning proficiency</td>
</tr>
</tbody>
</table>

- **children**
  - LearningOutcomeSkillCode
  - LearningOutcomeProficiencyCode
- **used by**
  - LearningOutcomeType/LearningOutcomeQualificationAssessment
- **annotation**
  - documentation
  - Assessment of learning proficiency

```
<xs:complexType name="LearningOutcomeQualificationAssessmentType">
  <xs:annotation>
    <xs:documentation>Assessment of learning proficiency</xs:documentation>
  </xs:annotation>
  <xs:sequence>
    <xs:element name="LearningOutcomeSkillCode" type="core:LearningOutcomeSkillCodeType">
      <xs:annotation>
        <xs:documentation>Learning Outcome Skill based on DQP intellectual skills Learning Outcome Skill based on DQP intellectual skills</xs:documentation>
      </xs:annotation>
    </xs:element>
    <xs:element name="LearningOutcomeProficiencyCode" type="core:LearningOutcomeProficiencyCodeType">
      <xs:annotation>
        <xs:documentation>Assessment of learning proficiency Assessment of learning proficiency</xs:documentation>
      </xs:annotation>
    </xs:element>
  </xs:sequence>
</xs:complexType>
```
### AlternateOutcomeFrameworkType

A container to hold the alternative framework taxonomies that map to the learning outcome.

#### children
- FrameworkSourceReference
- FrameworkOutcome

#### used by
- LearningOutcomeType/AlternateOutcomeFramework

#### annotation
A container to hold the alternative framework taxonomies that map to the learning outcome.

#### source
```xml
<xsd:complexType name="AlternateOutcomeFrameworkType">
  <xsd:annotation>
    <xsd:documentation>A container to hold the alternative framework taxonomies that map to the learning outcome</xsd:documentation>
  </xsd:annotation>
  <xsd:sequence>
    <xsd:element name="FrameworkSourceReference" type="core:URLType" minOccurs="0">
      <xsd:annotation>
        <xsd:documentation>URL of the alternative framework that has the outcome taxonomies</xsd:documentation>
      </xsd:annotation>
    </xsd:element>
    <xsd:element name="FrameworkOutcome" type="core:FrameworkOutcomeType" minOccurs="0" maxOccurs="unbounded">
      <xsd:annotation>
        <xsd:documentation>Information about the outcome of a learning activity</xsd:documentation>
      </xsd:annotation>
    </xsd:element>
  </xsd:sequence>
</xsd:complexType>
```

### FrameworkOutcomeType

Information about the outcome of a learning activity.

#### children
- FrameworkOutcomeld
- FrameworkOutcomeValue

#### source
```xml
<xsd:complexType name="FrameworkOutcomeType">
  <xsd:annotation>
    <xsd:documentation>Information about the outcome of a learning activity</xsd:documentation>
  </xsd:annotation>
  <xsd:sequence>
    <xsd:element name="FrameworkOutcomeld">
      <xsd:annotation>
        <xsd:documentation>Identifier for outcome</xsd:documentation>
      </xsd:annotation>
    </xsd:element>
    <xsd:element name="FrameworkOutcomeValue">
      <xsd:annotation>
        <xsd:documentation>A container to hold the alternative framework taxonomies that map to the learning outcome</xsd:documentation>
      </xsd:annotation>
    </xsd:element>
  </xsd:sequence>
</xsd:complexType>
```
<table>
<thead>
<tr>
<th>used by</th>
<th>element</th>
<th>AlternateOutcomeFrameworkType/FrameworkOutcome</th>
</tr>
</thead>
<tbody>
<tr>
<td>annotation</td>
<td>documentation</td>
<td>information about the outcome of a learning activity</td>
</tr>
</tbody>
</table>

```xml
<xs:complexType name="FrameworkOutcomeType">
    <xs:documentation>Information about the outcome of a learning activity</xs:documentation>
    <xs:sequence>
        <xs:element name="FrameworkOutcomeId" type="core:FrameworkOutcomeIdType" minOccurs="0" maxOccurs="1">
            <xs:documentation>Identifier for outcome Alternative outcome id</xs:documentation>
        </xs:element>
        <xs:element name="FrameworkOutcomeValue" type="core:LearningOutcomeDescriptionType" minOccurs="1">
            <xs:documentation>A container to hold the alternative framework taxonomies that map to the learning outcome Definition of alternative outcome taxonomy</xs:documentation>
        </xs:element>
    </xs:sequence>
</xs:complexType>
```
## LearningExperienceType

A type describing information about a learning experience

<table>
<thead>
<tr>
<th>diagram</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>SponsorOrganization</td>
<td>The department or organization that sponsors the extra- and co-curricular experience learning program or courses.</td>
</tr>
<tr>
<td>Mentor</td>
<td>The information of a person who coaches a learner during a service or an extra- and co-curricular experience learning program.</td>
</tr>
<tr>
<td>PlacementLocation</td>
<td>The location where a learner studies or provides the services for the extra- and co-curricular experience learning program or courses.</td>
</tr>
<tr>
<td>LearningReflection</td>
<td>A learner's essay or statement about the extra- and co-curricular learning course taken or about the services experience.</td>
</tr>
<tr>
<td>NoteMessage</td>
<td>Additional information about a learning experience</td>
</tr>
<tr>
<td>UserDefinedExtensions</td>
<td>Additional structured information. Requires mutually defined XML schema.</td>
</tr>
</tbody>
</table>

### children
- SponsorOrganization
- Mentor
- PlacementLocation
- LearningReflection
- NoteMessage
- UserDefinedExtensions

### used by
- element: `AcademicSessionType/LearningExperience`

### annotation
documentation
A type describing information about a learning experience

### source
```xml
<xs:complexType name="LearningExperienceType">
  <xs:annotation>
    <xs:documentation>A type describing information about a learning experience</xs:documentation>
  </xs:annotation>
  <xs:sequence>
    <xs:element name="SponsorOrganization" type="xs:string" minOccurs="0">
      <xs:annotation>
        <xs:documentation>The department or organization that sponsors the extra- and co-curricular experience learning program or courses.</xs:documentation>
      </xs:annotation>
    </xs:element>
  </xs:sequence>
</xs:complexType>
```
<xs:element name="Mentor" type="core:EndorseType" minOccurs="0" maxOccurs="unbounded">
  <xs:annotation>
    <xs:documentation>The information of a person who coaches a learner during a service or an extra- and co-curricular experience learning program.</xs:documentation>
  </xs:annotation>
</xs:element>

<xs:element name="PlacementLocation" type="xs:string" minOccurs="0" maxOccurs="unbounded">
  <xs:annotation>
    <xs:documentation>The location where a learner studies or provides the services for the extra- and co-curricular experience learning program or courses.</xs:documentation>
  </xs:annotation>
</xs:element>

<xs:element name="LearningReflection" type="xs:string" minOccurs="0" maxOccurs="unbounded">
  <xs:annotation>
    <xs:documentation>A learner's essay or statement about the extra- and co-curricular learning course taken or about the services experience.</xs:documentation>
  </xs:annotation>
</xs:element>

<xs:element name="NoteMessage" type="core:NoteMessageType" minOccurs="0" maxOccurs="unbounded">
  <xs:annotation>
    <xs:documentation>Additional information about a learning experience</xs:documentation>
  </xs:annotation>
</xs:element>

<xs:element name="UserDefinedExtensions" type="core:UserDefinedExtensionsType" minOccurs="0" maxOccurs="unbounded">
  <xs:annotation>
    <xs:documentation>Additional structured information. Requires mutually defined XML schema. Additional structured information. Requires mutually defined XML schema.</xs:documentation>
  </xs:annotation>
</xs:element>

</xs:sequence>
</xs:complexType>

LearningTopicType

<table>
<thead>
<tr>
<th>type</th>
<th>restriction of xs:string</th>
</tr>
</thead>
<tbody>
<tr>
<td>properties</td>
<td>base xs:string</td>
</tr>
<tr>
<td>used by</td>
<td>element CourseType/LearningTopic</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>facets</th>
<th>Kind</th>
<th>Value</th>
<th>Annotation</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>minLength</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td></td>
<td>maxLength</td>
<td>300</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>annotation</th>
<th>documentation</th>
</tr>
</thead>
</table>
Topics to be taught for a course, learning experience or training

<xs:simpleType name="LearningTopicType">
  <xs:annotation>
    <xs:documentation>Topics to be taught for a course, learning experience or training</xs:documentation>
  </xs:annotation>
  <xs:restriction base="xs:string">
    <xs:minLength value="1"/>
    <xs:maxLength value="300"/>
  </xs:restriction>
</xs:simpleType>

LearningOutcomeType/LearningOutcomeDescription

type restriction of xs:string

properties
  base xs:string

used by
  elements FrameworkOutcomeType/FrameworkOutcomeValue LearningOutcomeType/LearningOutcomeDescription

facets
  Kind Value Annotation
  minLength 1
  maxLength 300

annotation
documentation
  Text describing the outcome of a learning experience

source
<xs:simpleType name="LearningOutcomeDescriptionType">
  <xs:annotation>
    <xs:documentation>Text describing the outcome of a learning experience</xs:documentation>
  </xs:annotation>
  <xs:restriction base="xs:string">
    <xs:minLength value="1"/>
    <xs:maxLength value="300"/>
  </xs:restriction>
</xs:simpleType>

FrameworkOutcomeType/FrameworkOutcomeld

type restriction of xs:string

properties
  base xs:string

used by
  element FrameworkOutcomeType/FrameworkOutcomeld

facets
  Kind Value Annotation
  minLength 1
  maxLength 40

annotation
documentation
Program and course information for Learning Records

```xml
<xs:simpleType name="FrameworkOutcomeIdType">
  <xs:annotation>
    <xs:documentation>Program and course information for Learning Records</xs:documentation>
  </xs:annotation>
  <xs:restriction base="xs:string">
    <xs:minLength value="1"/>
    <xs:maxLength value="40"/>
  </xs:restriction>
</xs:simpleType>
```

### FrameworkOutcomeType/FrameworkOutcomeValue

**Diagram:**
![FrameworkOutcomeValue Diagram](image)

**Type:** `core:LearningOutcomeDescriptionType`

**Properties:**
- **content:** `simple`

**Facets:**
- **Kind** | **Value** | **Annotation**
  - minLength | 1 |
  - maxLength | 300 |

**Annotation:**
A container to hold the alternative framework taxonomies that map to the learning outcome Definition of alternative outcome taxonomy

```xml
<xs:element name="FrameworkOutcomeValue" type="core:LearningOutcomeDescriptionType" minOccurs="1">
  <xs:annotation>
    <xs:documentation>A container to hold the alternative framework taxonomies that map to the learning outcome Definition of alternative outcome taxonomy</xs:documentation>
  </xs:annotation>
</xs:element>
```

### LearningOutcomeQualificationAssessmentType/LearningOutcomeSkillCode

**Type:** restriction of `xs:string`

**Properties:**
- **base:** `xs:string`

**Used by:**
- `element` `LearningOutcomeQualificationAssessmentType/LearningOutcomeSkillCode`

**Facets:**
- **Kind** | **Value** | **Annotation**
  - enumeration | AnalyticInquiry | documentation | Analytic Inquiry |
<table>
<thead>
<tr>
<th>enumeration</th>
<th>documentation</th>
</tr>
</thead>
<tbody>
<tr>
<td>UseInformationResources</td>
<td>Use Information Resources</td>
</tr>
<tr>
<td>EngagingDiversePerspective</td>
<td>Engaging Diverse Perspective</td>
</tr>
<tr>
<td>EthicalReasoning</td>
<td>Ethical Reasoning</td>
</tr>
<tr>
<td>QuantitativeFluency</td>
<td>Quantitative Fluency</td>
</tr>
<tr>
<td>CommunicativeFluency</td>
<td>Communicative Fluency</td>
</tr>
<tr>
<td>ProgramSpecificIntellectualPracticalSkills</td>
<td>Program Specific Intellectual Practical Skills</td>
</tr>
</tbody>
</table>

**annotation**

Learning Outcome Skill based on DQP intellectual skills

**source**

```xml
<xs:simpleType name="LearningOutcomeSkillCodeType">
  <xs:annotation>
    <xs:documentation>
      Learning Outcome Skill based on DQP intellectual skills
    </xs:documentation>
  </xs:annotation>
  <xs:restriction base="xs:string">
    <xs:enumeration value="AnalyticInquiry">
      <xs:annotation>
        <xs:documentation>
          Analytic Inquiry
        </xs:documentation>
      </xs:annotation>
    </xs:enumeration>
    <xs:enumeration value="UseInformationResources">
      <xs:annotation>
        <xs:documentation>
          Use Information Resources
        </xs:documentation>
      </xs:annotation>
    </xs:enumeration>
    <xs:enumeration value="EngagingDiversePerspective">
      <xs:annotation>
        <xs:documentation>
          Engaging Diverse Perspective
        </xs:documentation>
      </xs:annotation>
    </xs:enumeration>
    <xs:enumeration value="EthicalReasoning">
      <xs:annotation>
        <xs:documentation>
          Ethical Reasoning
        </xs:documentation>
      </xs:annotation>
    </xs:enumeration>
    <xs:enumeration value="QuantitativeFluency">
      <xs:annotation>
        <xs:documentation>
          Quantitative Fluency
        </xs:documentation>
      </xs:annotation>
    </xs:enumeration>
  </xs:restriction>
</xs:simpleType>
```
<table>
<thead>
<tr>
<th>Kind</th>
<th>Value</th>
<th>Annotation</th>
</tr>
</thead>
<tbody>
<tr>
<td>enumeration</td>
<td>Novice</td>
<td>documentation</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Intermediate</td>
<td>documentation</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Proficient</td>
<td>documentation</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Distinguished</td>
<td>documentation</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Master</td>
<td>documentation</td>
</tr>
<tr>
<td>source</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Assessment of learning proficiency</td>
</tr>
</tbody>
</table>

```xml
<xs:simpleType name="LearningOutcomeProficiencyCodeType">
  <xs:annotation>
    <xs:documentation>Assessment of learning proficiency</xs:documentation>
  </xs:annotation>
  <xs:restriction base="xs:string">
    <xs:enumeration value="Novice">
      <xs:annotation>
        <xs:documentation>Novice</xs:documentation>
      </xs:annotation>
    </xs:enumeration>
    <xs:enumeration value="Intermediate">
      <xs:annotation>
        <xs:documentation>Intermediate</xs:documentation>
      </xs:annotation>
    </xs:enumeration>
    <xs:enumeration value="Proficient">
      <xs:annotation>
        <xs:documentation>Proficient</xs:documentation>
      </xs:annotation>
    </xs:enumeration>
    <xs:enumeration value="Distinguished">
      <xs:annotation>
        <xs:documentation>Distinguished</xs:documentation>
      </xs:annotation>
    </xs:enumeration>
    <xs:enumeration value="Master">
      <xs:annotation>
        <xs:documentation>Master</xs:documentation>
      </xs:annotation>
    </xs:enumeration>
  </xs:restriction>
</xs:simpleType>
```
<table>
<thead>
<tr>
<th>xs:documentation</th>
<th>Intermediate</th>
</tr>
</thead>
<tbody>
<tr>
<td>xs:enumeration</td>
<td>Proficient</td>
</tr>
<tr>
<td>xs:enumeration</td>
<td>Distinguished</td>
</tr>
<tr>
<td>xs:enumeration</td>
<td>Master</td>
</tr>
</tbody>
</table>

```xml
<xs:simpleType>
  <xs:restriction base="xs:integer">
    <xs:enumeration value="1">Intermediate</xs:enumeration>
    <xs:enumeration value="2">Proficient</xs:enumeration>
    <xs:enumeration value="3">Distinguished</xs:enumeration>
    <xs:enumeration value="4">Master</xs:enumeration>
  </xs:restriction>
</xs:simpleType>
```
LearningExperienceType/SponsorOrganization
<table>
<thead>
<tr>
<th>properties</th>
<th>minOcc</th>
<th>0</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>maxOcc</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td>content</td>
<td>complex</td>
</tr>
</tbody>
</table>

| children   | OPEID NCHELPID IPEDS ATP FICE ACT CCD PSS CEEBACT CSIS USIS ESIS PSIS DUNS MutuallyDefined APAS LocalOrganizationID OrganizationName Contacts Accreditation NoteMessage |

<table>
<thead>
<tr>
<th>annotation</th>
<th>documentation</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>The department or organization that sponsors the extra- and co-curricular experience learning program or courses.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>source</th>
<th>&lt;xs:element name=&quot;SponsorOrganization&quot; type=&quot;AcRec:OrganizationType&quot; minOccurs=&quot;0&quot;&gt;</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td><a href="">xs:annotation</a></td>
</tr>
<tr>
<td></td>
<td><a href="">xs:documentation</a>The department or organization that sponsors the extra- and co-curricular experience learning program or courses.&lt;/xs:documentation&gt;</td>
</tr>
<tr>
<td></td>
<td>&lt;/xs:annotation&gt;</td>
</tr>
<tr>
<td></td>
<td>&lt;/xs:element&gt;</td>
</tr>
</tbody>
</table>
AcRec:OrganizationType

OPEID NCHELPID IPEDS ATP FICE ACT CCD PSS CEEBACT CSIS USIS ESIS PSIS DUNS MutuallyDefined APAS LocalOrganizationID OrganizationName Contacts Accreditation NoteMessage
used by | elements
---|---
| AcademicLearningType/Department EmploymentType/Employer SourceDestinationType/Organization LearningExperienceType/SponsorOrganization

annotation | documentation
---|---
| Non-person entity such as Organization, Institution, Agency or Business.

source
```xml
type="core:OrganizationIDMultiChoiceGroup"
minOccurs="0"/>
    <xs:annotation>
      <xs:documentation>A code set typically used by a state, province or region to further identify the sending school.</xs:documentation>
    </xs:annotation>
  </xs:element>
  <xs:element name="OrganizationName" minOccurs="0" maxOccurs="unbounded">
    <xs:annotation>
      <xs:documentation>Name of Non-person entity such as Organization, Institution, Agency or Business.</xs:documentation>
    </xs:annotation>
    <xs:simpleType>
      <xs:restriction base="core:OrganizationNameType">
        <xs:maxLength value="60"/>
      </xs:restriction>
    </xs:simpleType>
  </xs:element>
  <xs:element name="Contacts" type="AcRec:ContactsType" minOccurs="0" maxOccurrence="unbounded">
    <xs:annotation>
      <xs:documentation>To identify a person or an office at the sending school to which administrative communications should be directed.</xs:documentation>
    </xs:annotation>
  </xs:element>
  <xs:element name="Accreditation" type="core:AccreditationType" minOccurs="0">
    <xs:annotation>
      <xs:documentation>This complex data element provides information about the accreditation of the school sending the transcript.</xs:documentation>
    </xs:annotation>
  </xs:element>
  <xs:element name="NoteMessage" type="core:NoteMessageType" minOccurs="0" maxOccurrence="unbounded">
    <xs:annotation>
      <xs:documentation>Additional information about the organization.</xs:documentation>
    </xs:annotation>
  </xs:element>
</xs:complexType>
```
### LearningExperienceType/Mentor

<table>
<thead>
<tr>
<th>Type</th>
<th>core:EndorseType</th>
</tr>
</thead>
<tbody>
<tr>
<td>Properties</td>
<td></td>
</tr>
<tr>
<td>minOcc</td>
<td>0</td>
</tr>
<tr>
<td>maxOcc</td>
<td>unbounded</td>
</tr>
<tr>
<td>content</td>
<td>complex</td>
</tr>
<tr>
<td>Children</td>
<td>Department PositionTitle Name</td>
</tr>
<tr>
<td>Annotation</td>
<td>The information of a person who coaches a learner during a service or an extra- and co-curricular experience learning program.</td>
</tr>
</tbody>
</table>

```xml
<xs:element name="Mentor" type="core:EndorseType" minOccurs="0" maxOccurs="unbounded">
  <xs:annotation>
    <xs:documentation>The information of a person who coaches a learner during a service or an extra- and co-curricular experience learning program.</xs:documentation>
  </xs:annotation>
</xs:element>
```

### LearningExperienceType/PlacementLocation

<table>
<thead>
<tr>
<th>Type</th>
<th>xs:string</th>
</tr>
</thead>
<tbody>
<tr>
<td>Properties</td>
<td></td>
</tr>
<tr>
<td>minOcc</td>
<td>0</td>
</tr>
<tr>
<td>maxOcc</td>
<td>1</td>
</tr>
<tr>
<td>content</td>
<td>simple</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Diagram</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Description</td>
<td>The location where a learner studies or provides the services for the extra- and co-curricular experience learning program or courses.</td>
</tr>
<tr>
<td>annotation</td>
<td>documentation</td>
</tr>
<tr>
<td>------------</td>
<td>---------------</td>
</tr>
<tr>
<td>The location where a learner studies or provides the services for the extra- and co-curricular experience learning program or courses.</td>
<td></td>
</tr>
</tbody>
</table>

```xml
<xs:element name="PlacementLocation" type="xs:string" minOccurs="0">
  <xs:annotation>
    <xs:documentation>The location where a learner studies or provides the services for the extra- and co-curricular experience learning program or courses.</xs:documentation>
  </xs:annotation>
</xs:element>
```

**LearningExperienceType/LearningReflection**

<table>
<thead>
<tr>
<th>diagram</th>
<th>Learning Reflection</th>
</tr>
</thead>
<tbody>
<tr>
<td>type</td>
<td>xs:string</td>
</tr>
</tbody>
</table>
| properties | minOcc: 0  
maxOcc: 1  
content: simple |
| annotation | documentation |
| source | A learner's essay or statement about the extra- and co-curricular learning course taken or about the services experience. |

```xml
<xs:element name="LearningReflection" type="xs:string" minOccurs="0">
  <xs:annotation>
    <xs:documentation>A learner's essay or statement about the extra- and co-curricular learning course taken or about the services experience.</xs:documentation>
  </xs:annotation>
</xs:element>
```

**AcademicLearningType/PerformanceEvidence**

<table>
<thead>
<tr>
<th>diagram</th>
<th>Performance Evidence</th>
</tr>
</thead>
<tbody>
<tr>
<td>A URL of a web location that hosts a learner's work results.</td>
<td></td>
</tr>
<tr>
<td>The Uniform Resource Locator (URL) address of the sending high school or of a contact at the sending high school.</td>
<td></td>
</tr>
<tr>
<td>Additional information about the URL address of the source institution.</td>
<td></td>
</tr>
</tbody>
</table>

```xml
<core:URLName>
  <URLAddress>The Uniform Resource Locator (URL) address of the sending high school or of a contact at the sending high school.</URLAddress>
  <NoteMessage>Additional information about the URL address of the source institution</NoteMessage>
</core:URLName>
```
<table>
<thead>
<tr>
<th>type</th>
<th>core:URLType</th>
</tr>
</thead>
<tbody>
<tr>
<td>properties</td>
<td>minOcc 0</td>
</tr>
<tr>
<td></td>
<td>maxOcc unbounded</td>
</tr>
<tr>
<td></td>
<td>content complex</td>
</tr>
<tr>
<td>children</td>
<td>URLAddress NoteMessage</td>
</tr>
<tr>
<td>annotation</td>
<td>documentation</td>
</tr>
<tr>
<td>source</td>
<td>`&lt;xs:element name=&quot;PerformanceEvidence&quot; type=&quot;core:URLType&quot; minOccurs=&quot;0&quot; maxOccurs=&quot;unbounded&quot;&gt;</td>
</tr>
<tr>
<td></td>
<td><a href="">xs:annotation</a></td>
</tr>
<tr>
<td></td>
<td><a href="">xs:documentation</a>A URL of a web location that hosts a learner's work results.&lt;/xs:documentation&gt;</td>
</tr>
<tr>
<td></td>
<td>&lt;/xs:annotation&gt;</td>
</tr>
<tr>
<td></td>
<td>&lt;/xs:element&gt;</td>
</tr>
</tbody>
</table>

### AcademicAwardType/AcademicAwardLevel

<table>
<thead>
<tr>
<th>type</th>
<th>restriction of xs:string</th>
</tr>
</thead>
<tbody>
<tr>
<td>properties</td>
<td>base xs:string</td>
</tr>
<tr>
<td>used by</td>
<td>element AcademicAwardType/AcademicAwardLevel</td>
</tr>
<tr>
<td>facets</td>
<td>Kind</td>
</tr>
<tr>
<td></td>
<td>enumeration</td>
</tr>
<tr>
<td></td>
<td>Did not complete secondary school</td>
</tr>
<tr>
<td></td>
<td>enumeration</td>
</tr>
<tr>
<td></td>
<td>Standard High School Diploma which may or may not include an exit test</td>
</tr>
<tr>
<td></td>
<td>enumeration</td>
</tr>
<tr>
<td></td>
<td>Advanced or honors diploma</td>
</tr>
<tr>
<td></td>
<td>enumeration</td>
</tr>
<tr>
<td></td>
<td>Vocational diploma</td>
</tr>
<tr>
<td></td>
<td>enumeration</td>
</tr>
<tr>
<td></td>
<td>Special Education Diploma normally for students with a disabilit</td>
</tr>
<tr>
<td></td>
<td>enumeration</td>
</tr>
<tr>
<td></td>
<td>Certificate of completion or attendance</td>
</tr>
<tr>
<td></td>
<td>enumeration</td>
</tr>
<tr>
<td></td>
<td>Special certificate of completion or attendance</td>
</tr>
<tr>
<td></td>
<td>enumeration</td>
</tr>
</tbody>
</table>

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<table>
<thead>
<tr>
<th>Enumeration</th>
<th>Documentation</th>
</tr>
</thead>
<tbody>
<tr>
<td>B25</td>
<td>General Education Development Test Diploma (GED)</td>
</tr>
<tr>
<td>B26</td>
<td>Other high school equivalency diploma</td>
</tr>
<tr>
<td>B27</td>
<td>International diploma or certificate (such as International Baccalaureate)</td>
</tr>
<tr>
<td>B28</td>
<td>Standard High School Diploma with only 3 year curriculum</td>
</tr>
<tr>
<td>B58</td>
<td>Met all graduation requirements except for required exit test</td>
</tr>
<tr>
<td>B59</td>
<td></td>
</tr>
<tr>
<td>B60</td>
<td></td>
</tr>
<tr>
<td>0.0</td>
<td>&quot;Other&quot; - value to represent an award that does not otherwise fit existing enumerations</td>
</tr>
<tr>
<td>1.1</td>
<td>Certificate of completion,</td>
</tr>
<tr>
<td>1.2</td>
<td>Certificate of proficiency</td>
</tr>
<tr>
<td>1.3</td>
<td>Statement of participation</td>
</tr>
<tr>
<td>1.4</td>
<td>Statement of completion</td>
</tr>
<tr>
<td>1.5</td>
<td>Statement of achievement</td>
</tr>
<tr>
<td>2.0</td>
<td>Certificate</td>
</tr>
<tr>
<td>2.1</td>
<td>Postsecondary Certificate Or Diploma (less than one year)</td>
</tr>
<tr>
<td>enumeration</td>
<td>documentation</td>
</tr>
<tr>
<td>-------------</td>
<td>----------------</td>
</tr>
<tr>
<td>2.2</td>
<td>Postsecondary Certificate Or Diploma (one year or more but less than four years)</td>
</tr>
<tr>
<td>2.3</td>
<td>Associate Degree (e.g., Associate In Arts, Associate In Science)</td>
</tr>
<tr>
<td>2.4</td>
<td>Baccalaureate Degree</td>
</tr>
<tr>
<td>2.5</td>
<td>Baccalaureate (Honors) Degree</td>
</tr>
<tr>
<td>2.6</td>
<td>Postsecondary Certificate Or Diploma (one year or more but less than two years)</td>
</tr>
<tr>
<td>2.7</td>
<td>Postsecondary Certificate Or Diploma (two years or more but less than four years)</td>
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<tr>
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<td>&quot;Undergraduate non-degree&quot; - value to represent an award from undergraduate coursework that is not a certificate or degree</td>
</tr>
<tr>
<td>3.1</td>
<td>First Professional Degree</td>
</tr>
<tr>
<td>3.2</td>
<td>Post-Professional Degree</td>
</tr>
<tr>
<td>3.3</td>
<td>&quot;Graduate Professional&quot; - value to represent an award from graduate coursework in a professional program</td>
</tr>
<tr>
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<td>&quot;Graduate non-degree&quot; - value to represent an award from graduate coursework that is not a certificate or degree</td>
</tr>
<tr>
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</tr>
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<td>Master's Degree</td>
</tr>
<tr>
<td>4.3</td>
<td>Intermediate Graduate Degree</td>
</tr>
<tr>
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</table>

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<table>
<thead>
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<td>Post-doctoral Award</td>
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<td></td>
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<td></td>
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<td>CEGEP</td>
<td></td>
</tr>
<tr>
<td>2</td>
<td>Postsecondary award, certificate or diploma of less than one academic year (less than 900 contact or clock hours)</td>
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</tr>
<tr>
<td>3</td>
<td>Certificate</td>
<td></td>
</tr>
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<td>4</td>
<td>Associate's Degree</td>
<td></td>
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<tr>
<td>5</td>
<td>Postsecondary award, certificate, or diploma of at least two but less than four academic years (at least 1800 contact or clock hours)</td>
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</tr>
<tr>
<td>6</td>
<td>Bachelor's Degree or equivalent</td>
<td></td>
</tr>
<tr>
<td>7</td>
<td>Postbaccalaureate Certificate</td>
<td></td>
</tr>
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<td>8</td>
<td>Master's Degree</td>
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<td>Post Masters Certificate</td>
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<td>Doctor's Degree</td>
<td></td>
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<tr>
<td>11</td>
<td>First-Professional Degree</td>
<td></td>
</tr>
<tr>
<td>17</td>
<td>First-Professional Certificate (Post-Degree)</td>
<td></td>
</tr>
<tr>
<td>17</td>
<td>Doctor's degree - research/scholarship</td>
<td></td>
</tr>
</tbody>
</table>
The level of the degree, certificate, or award granted for the successful completion of requirements of an academic program.

B17 Did not complete secondary school
B18 Standard High School Diploma which may or may not include an exit test
B19 Advanced or honors diploma

Vocational diploma
B21 Special Education Diploma normally for students with a disability
B22 Certificate of completion or attendance
B23 Special certificate of completion or attendance
B24 General Education Development (GED) Diploma
B25 Other high school equivalency diploma
B26 International diploma or certificate such as International Baccalaureate
B27 Standard High School Diploma with only 3 year curriculum
B28 Met all graduation requirements except for required exit test

French Baccalaureate is an award made to high school students who complete a rigorous program of student including foreign languages. It allows French and international students to obtain a standardized qualification, typically at the age of 18. This then qualifies holders to work in certain areas, or go on to tertiary education or acquire some other professional qualification or training.

CEGEP is an award made by Canadian secondary schools that is typically equivalent to a high school diploma plus one year of college level courses.
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<th>Annotation</th>
<th>Documentation</th>
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<td>Special Education Diploma normally for students with a disabilit</td>
</tr>
<tr>
<td>B21</td>
<td>Special Education Diploma normally for students with a disabilit</td>
<td>Certificate of completion or attendance</td>
</tr>
<tr>
<td>B22</td>
<td>Certificate of completion or attendance</td>
<td>Special certificate of completion or attendance</td>
</tr>
<tr>
<td>B23</td>
<td>Special certificate of completion or attendance</td>
<td>General Education Development Test Diploma (GED)</td>
</tr>
<tr>
<td>B24</td>
<td>General Education Development Test Diploma (GED)</td>
<td>Other high school equivalency diploma</td>
</tr>
<tr>
<td>B25</td>
<td>Other high school equivalency diploma</td>
<td>International diploma or certificate (such as International Baccalaureate)</td>
</tr>
<tr>
<td>B26</td>
<td>International diploma or certificate (such as International Baccalaureate)</td>
<td>Standard High School Diploma with only 3 year curriculum</td>
</tr>
<tr>
<td>B27</td>
<td>Standard High School Diploma with only 3 year curriculum</td>
<td>Met all graduation requirements except for required exit test</td>
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<td>B58</td>
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Associate Degree (e.g., Associate In Arts, Associate In Science)

Baccalaureate Degree

Baccalaureate (Honors) Degree

Postsecondary Certificate Or Diploma (one year or more but less than two years)

Postsecondary Certificate Or Diploma (two years or more but less than four years)

"Undergraduate non-degree" - value to represent an award from undergraduate coursework that is not a certificate or degree

First Professional Degree

Post-Professional Degree

"Graduate Professional" - value to represent an award from graduate coursework in a professional program

"Graduate non-degree" - value to represent an award from graduate coursework that is not a certificate or degree
Graduate Certificate

Master's Degree

Intermediate Graduate Degree

Doctoral Degree

Post-doctoral Award

French Baccalaureate

CEGEP

Postsecondary award, certificate or diploma of less than one academic year (less than 900 contact or clock hours)

Certificate

Associate's Degree

Postsecondary award, certificate, or diploma of at least two but less than four academic years (at least 1800 contact or clock hours)
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<th>No</th>
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<tr>
<td>6</td>
<td>Postbaccalaureate Certificate</td>
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<td>7</td>
<td>Master's Degree</td>
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<td>Post Masters Certificate</td>
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<td>Doctor's Degree</td>
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<td>First-Professional Certificate (Post-Degree)</td>
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<td>17</td>
<td>Doctor's degree - research/scholarship</td>
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<tr>
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<td>Doctor's degree - professional practice</td>
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<td>19</td>
<td>Doctor's degree - other Award Levels</td>
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URLType

The Uniform Resource Locator of source institution

children: URLAddress NoteMessage

used by: AlternateOutcomeFrameworkType/FrameworkSourceReference AcademicLearningType/PerformanceEvidence ContactsType/URL

source:

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### DocumentProductionType/DocumentTypeCodeType

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Type and purpose of document being transmitted

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Institution Request

Gainful Employment Student Response File

Gainful Employment Student Submittal

IPEDS

National Student Loan Data System Enrollment Error

National Student Loan Data System Enrollment Submittal

Receipt

Request

Requested Record

Response

Reverse Transfer
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### URLType

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<th>URL Address NoteMessage</th>
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Appendix A: Sample XML Document

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      <PositionTitle>Dean</PositionTitle>
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  </DocumentProduction>
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```
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  <Name>
    <FirstName>Joe</FirstName>
    <LastName>Huy</LastName>
  </Name>
</AwardEndorse>
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      <MiddleName>T</MiddleName>
      <LastName>Doe</LastName>
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  <LearningOutcomeDescription>Build a financial model using the discounted cash flow, weighted average cost of capital method</LearningOutcomeDescription>
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<LearningOutcome>
  <LearningOutcomeDescription>Analyze capitalization tables and calculate key terms in venture capital financing</LearningOutcomeDescription>
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<LearningOutcome>
  <LearningOutcomeDescription>Use strategies for basing conclusions about society in data including causal reasoning, historical contextualization, hypothesis testing, modeling, and critical analysis of behavior and institutions</LearningOutcomeDescription>
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        <OrganizationName>Haas Center for Public Service</OrganizationName>
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    <Mentor>
        <PositionTitle>Professor</PositionTitle>
        <Name>
            <FirstName>Jane</FirstName>
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        </Name>
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    <PlacementLocation>Fresno Renewable Energy. Fresno, California</PlacementLocation>
    <LearningReflection>
        I worked with the Fresno Engineering team to help size solar photovoltaic systems for schools and houses in Fresno. I also supported the team’s efforts
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