

# **BDM Data Standard – Learning Opportunity Enrolment**

0.4

03 November 2009

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## Document Version History

Version	Status	Date	Modified by	Change description	Section & line Ref	Changed from	Changed to	Effects of change
0.1	Draft	18/09/2009	DFoster	Initial Draft	-	-	-	-
0.2	Draft	01/10/2009	LHogarth	New attributes for Registration Business Requirements	-	-	-	-
0.3	Draft	30/10/2009	LHogarth	Restructured due to Learning Opportunity Split New roles New attributes for Application and Enrolment Definitions Amended New entity – LO Enrolment Work Experience	-	-	-	-
0.4	Draft	03/11/2009	TKnowles LHogarth	New Attributes Definitions Amended Document Map updated to show Side Notes and Appendix replaced with a reference to new document				

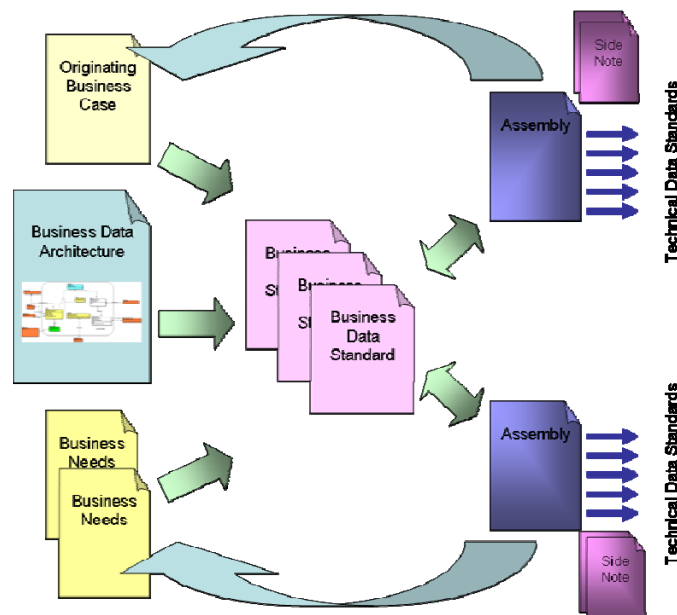
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## Introduction

A Business Data Standard is defined in response to a business need captured in a Business Case. In development, every effort is made to ensure that the Business Data Standard is capable to support all Education Skills and Children’s Services (ESCS) business needs for the same data. The Business Case may in fact give rise to a number of Business Data Standards, and the way that the standards are associated to meet the originating business need is shown via an “Assembly” document. Each Assembly may in addition need some guidance regarding Data Quality issues and implementation issues and these are contained in “Side Notes”.

The related documents are shown in the following diagram:



Many ESCS ICT systems will need to define Technical Data Standards that specify an encoding schema for data exchange and may include implementation-specific details. Such Technical Data Standards may conform to this and other ESCS ISB Business Data Standards. Those that do conform can be assured that their data will be interchangeable with any other conformant systems. A Technical Data Standard may indicate that within the scope of its use one or more attributes are Mandatory.

This Business Data Standard shows how information relating to enrolment of a Learner with a Learning Provider for a Learning Opportunity (course of study, apprenticeship, Diploma etc) shall be structured into entities and relationships according to the ESCS Business Data Architecture and enumerates and defines each information attribute in terms of:

- The relationships between entities in this standard and further entities defined in other standards

- The semantics, or meaning, of each entity and each attribute
- The data type, field length and construction rules for each attribute in an encoding-independent manner.
- Where the value of an attribute is to be defined by a list of permitted values (a “code list”), a reference to the relevant code list standard
- Where the standard relates to information defined by a standard from an external organisation (ISO, BSI, CEN etc) then this will also be noted.
- Any business rules (e.g. mandatory status) that are true for every business use of the standard.

Many ESCS ICT systems will need to define Technical Data Standards that specify an encoding schema for data exchange and may include implementation-specific details. Such Technical Data Standards may conform to this and other ESCS ISB Business Data Standards. Those that do conform can be assured that their data will be interchangeable with any other conformant systems. A Technical Data Standard may indicate that within the scope of its use one or more attributes are Mandatory.

## **Data Standard**

### **Entity relationships**

The following diagrams shows the entities covered in this standard and their relationships to each other. The diagrams are:

- Entity Definition Model – A high level diagram extracted from the ESCS Business Data Architecture showing just the entities, their descriptions and the relationships between the entities.
- Attribute Model – A lower level diagram also extracted from the ESCS Business Data Architecture showing the entities and the names of their attributes. Entities are divided into two sections. The top section contains only attributes that form the primary key of the entity and the remaining attributes are in the bottom section.

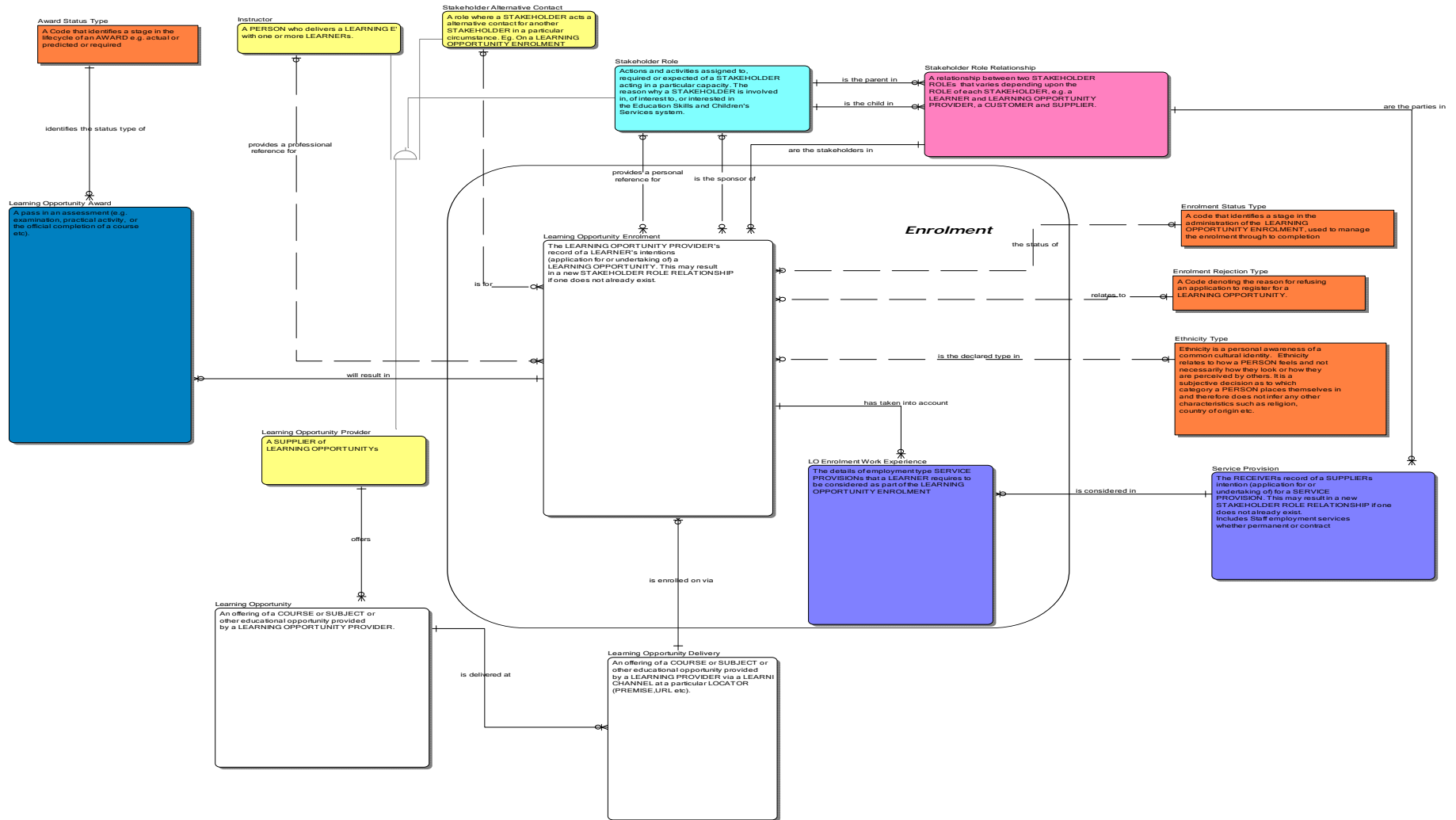
### ***Diagram Notation***

The notation used follows the Business Data Architecture Document notation (refer to ESCS Business Data Architecture document for further details). Only those entities within the boundary square are to be part of the particular data standard. Those entities outside of the boundary square are for context purposes only, or are separate reference data (orange coloured entities)

### ***Entity and Attribute Naming Standards and Conventions used***

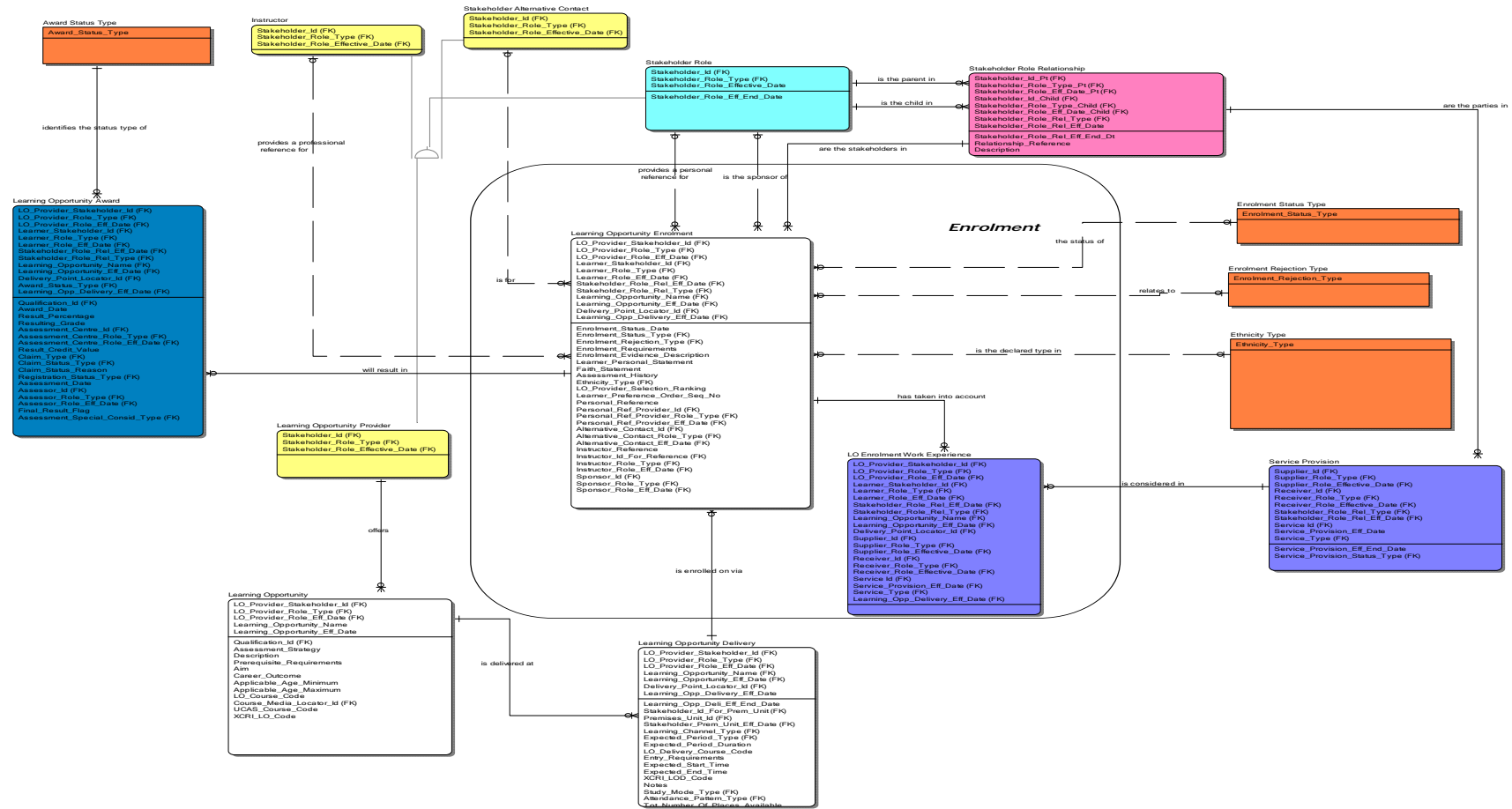
The standards for Business Data Architecture naming and conventions used for this development is Business Data Architecture Naming Standards and Conventions Vs 1.2 by Steve Palmer.

### Entity Definition Model





Attribute Model



## Data definitions

The following section further describes the entities and their attributes covered in this standard.

PK = Primary Key Attribute

FK =Foreign Key Attribute

M = Mandatory Attribute

**NOTE: Data Types are defined according to the conventions set out in the document “BDM Data Standard – Data Type Expressions”**

### Entity: Learning Opportunity Enrolment

The LEARNING OPORTUNITY PROVIDER's record of a LEARNER's intentions (application for or undertaking of) a LEARNING OPPORTUNITY. This may result in a new STAKEHOLDER ROLE RELATIONSHIP if one does not already exist.

Attribute Name	Attribute Definition	P K	F K	M	Datatype	Parent Entity	Parent Attribute	Code List
LO_Provider_Stakeholder_Id	A value that denotes and distinguishes the STAKEHOLDER	Y	Y	Y	Simple_String (1, 32)	Stakeholder Role Relationship	Stakeholder_I d_Parent	

LO_Provider_Role_Type	A Code that identifies a specific role of a STAKEHOLDER.e.g. LEARNER, LEARNING OPPORTUNITY PROVIDER. This attribute may appear prefixed with the role that is currently being undertaken. In this event the role_type is that specifically named role	Y	Y	Y	Simple_String (1, 50)	Stakeholder Role Relationship	Stakeholder_ Role_Type_P arent	
LO_Provider_Role_Eff_Date	The date at which the specific role of a STAKEHOLDER.e.g. LEARNER, LEARNING OPPORTUNITY PROVIDER. Becomes effective. This attribute may appear prefixed with the role that is currently being undertaken. In this event the start date is that of the specifically named role	Y	Y	Y	Simple_Date_Ti me	Stakeholder Role Relationship	Stakeholder_ Role_Eff_Dat e_Parent	
Learner_Stakeholder_Id	A value that denotes and distinguishes the STAKEHOLDER	Y	Y	Y	Simple_String (1, 32)	Stakeholder Role Relationship	Stakeholder_I d_Child	
Learner_Role_Type	A Code that identifies a specific role of a STAKEHOLDER.e.g. LEARNER, LEARNING OPPORTUNITY PROVIDER. This attribute may appear prefixed with the role that is currently being undertaken. In this event the role_type is that specifically named role	Y	Y	Y	Simple_String (1, 50)	Stakeholder Role Relationship	Stakeholder_ Role_Type_C hild	

Learner_Role_Eff_Date	The date at which the specific role of a STAKEHOLDER.e.g. LEARNER, LEARNING OPPORTUNITY PROVIDER. Becomes effective. This attribute may appear prefixed with the role that is currently being undertaken. In this event the start date is that of the specifically named role	Y	Y	Y	Simple_Date_Time	Stakeholder Role Relationship	Stakeholder_Role_Eff_Date_Child	
Stakeholder_Role_Rel_Eff_Date	The date from which the stakeholder role relationship commenced	Y	Y	Y	Simple_Date_Time	Stakeholder Role Relationship	Stakeholder_Role_Rel_Eff_ective_Date	
Stakeholder_Role_Rel_Type	A Code that identifies a specific relationship between STAKEHOLDER ROLES e.g. LEARNER and LEARNING OPPORTUNITY PROVIDER. Tutor Group, Class, Consortium etc	Y	Y	Y	Simple_String (1, 50)	Stakeholder Role Relationship	Stakeholder_Role_Rel_Type	
Learning_Opportunity_Name	A value that denotes the LEARNING OPPORTUNITY	Y	Y	Y	Simple_String (1, 255)	Learning Opportunity Delivery	Learning_Opportunity_Name	
Learning_Opportunity_Eff_Date	The date and time from which the LEARNING OPPORTUNITY is offered to LEARNERS.	Y	Y	Y	Simple_Date_Time	Learning Opportunity Delivery	Learning_Opportunity_Eff_Date	
Delivery_Point_Locator_Id	A value that denotes and distinguishes the LOCATOR.	Y	Y	Y	Simple_String (1,36)	Learning Opportunity Delivery	Delivery_Point_Locator_Id	
Learning_Opp_Delivery_Eff_Date	The date and time from which the LEARNING OPPORTUNITY DELIVERY will take place.	Y	Y	Y	Simple_Date_Time	Learning Opportunity Delivery	Learning_Opp_Delivery_Eff_Date	

Enrolment_Status_Date	The date on which the current status value was recorded	N	N	N	Simple_Date_Time			
Enrolment_Status_Type	A code that identifies a stage in the administration of the LEARNING OPPORTUNITY ENROLMENT, used to manage the enrolment through to completion	N	Y	N	Simple_String(1, 25)			CL_Enrolment_Status_Type
Enrolment_Rejection_Type	A Code denoting the reason for refusing an application to register for a LEARNING OPPORTUNITY.	N	Y	N	Simple_String(1, 25)			CL_Enrolment_Rejection_Type
Enrolment_Requirements	The requirements that a particular LEARNER has placed upon them to enable them to enrol e.g 5 o'levels	N	N	N	Simple_String(1,2000)			
Enrolment_Evidence_Description	A narrative description o the evidence submitted as part of an application to take part in a LEARNING OPPORTUNITY.	N	N	N	Simple_String(1,2000)			
Learner_Personal_Statement	A personal statement written by the LEARNER outlining there reason for wanting to enrol on the course and any supporting notes as to their suitability.	N	N	N	Simple_String(1,2000)	Stakeholder Role	Stakeholder_Id	
Faith_Statement	A statement written by the LEARNER about their faith	N	N	N	Simple_String(1,2000)	Stakeholder Role	Stakeholder_Role_Type	
Assessment_History	A narrative description of the LEARNERS previous assessments and the resulting outcomes	N	N	N	Simple_String(1,2000)	Stakeholder Role	Stakeholder_Role_Eff_Date	

Ethnicity_Type	A Code that identifies a shared and subjective cultural identity with which the person associates himself or herself	N	Y	N	Simple_String(1,25)			CL_Ethnicity_Type
LO_Provider_Selection_Ranking	A ranking entered by the LEARNING OPPORTUNITY PROVIDER onto each LEARNING OPPORTUNITY ENROLMENT that the LEARNER submits indicating a ranking based on eligibility criteria to be taken into account by the selection panel when considering multiple applications	N	N	N	Simple_String(1,2)			
Learner_Preference_Order_Seq_No	A sequence number entered by the LEARNER onto each LEARNING OPPORTUNITY ENROLMENT that the LEARNER submits indicating a preference sequence to be taken into account by the selection panel when considering multiple applications	N	N	N	Simple_Integer(1,2)			
Personal_Reference	A reference provided by a professional person of standing with personal knowledge of the LEARNER. E.g. a doctor	N	N	N	Simple_String(1, 2000)			
Personal_Ref_Provider_Id	A value that denotes and distinguishes the STAKEHOLDER	N	Y	N	Simple_String(1, 32)	Stakeholder Role	Stakeholder_Id	

Personal_Ref_Provider_Role_Type	A Code that identifies the specific role of a STAKEHOLDER.e.g. LEARNER, LEARNING OPPORTUNITY PROVIDER. This attribute may appear prefixed with the role that is currently being undertaken. In this event the role_type is that specifically named role	N	Y	N	Simple_String (1, 50)	Stakeholder Role	Stakeholder_Role_Type	
Personal_Ref_Provider_Eff_Date	The date at which the specific role of a STAKEHOLDER.e.g. LEARNER, LEARNING OPPORTUNITY PROVIDER. Becomes effective. This attribute may appear prefixed with the role that is currently being undertaken. In this event the start date is that of the specifically named role	N	Y	N	Simple_Date_Time	Stakeholder Role	Stakeholder_Role_Eff_Date	
Alternative_Contact_Id	A value that denotes and distinguishes the STAKEHOLDER	N	Y	N	Simple_String (1, 32)	Stakeholder Alternative Contact	Stakeholder_Id	
Alternative_Contact_Role_Type	A Code that identifies the specific role of a STAKEHOLDER.e.g. LEARNER, LEARNING OPPORTUNITY PROVIDER. This attribute may appear prefixed with the role that is currently being undertaken. In this event the role_type is that specifically named role	N	Y	N	Simple_String (1, 50)	Stakeholder Alternative Contact	Stakeholder_Role_Type	

Alternative_Contact_Eff_Date	The date at which the specific role of a STAKEHOLDER.e.g. LEARNER, LEARNING OPPORTUNITY PROVIDER. Becomes effective. This attribute may appear prefixed with the role that is currently being undertaken. In this event the start date is that of the specifically named role	N	Y	N	Simple_Date_Time	Stakeholder Alternative Contact	Stakeholder_Role_Eff_Date	
Instructor_Reference	A reference provided by a principal Instructor of the LEARNER. In secondary schools this will be the Tutor	N	N	N	Simple_String(1,2000)			
Instructor_Id_For_Reference	The identifier that uniquely identifies the STAKEHOLDER	N	Y	N	Simple_String (1, 32)	Instructor	Stakeholder_Id	
Instructor_Role_Type	A Code that identifies the specific role of a STAKEHOLDER.e.g. LEARNER, LEARNING OPPORTUNITY PROVIDER. This attribute may appear prefixed with the role that is currently being undertaken. In this event the role_type is that specifically named role	N	Y	N	Simple_String (1, 50)	Instructor	Stakeholder_Role_Type	
Instructor_Role_Eff_Date	The date at which the specific role of a STAKEHOLDER.e.g. LEARNER, LEARNING OPPORTUNITY PROVIDER. Becomes effective. This attribute may appear prefixed with the role that is currently being undertaken. In this event the start date is that of the specifically named role	N	Y	N	Simple_Date_Time	Instructor	Stakeholder_Role_Eff_Date	



Sponsor_Id	A value that denotes and distinguishes the STAKEHOLDER	N	Y	N	Simple_String (1, 32)	Stakeholder Role	Stakeholder_Id	
Sponsor_Role_Type	A Code that identifies the specific role of a STAKEHOLDER.e.g. LEARNER, LEARNING OPPORTUNITY PROVIDER. This attribute may appear prefixed with the role that is currently being undertaken. In this event the role_type is that specifically named role	N	Y	N	Simple_String (1, 50)	Stakeholder Role	Stakeholder_Role_Type	
Sponsor_Role_Eff_Date	The date at which the specific role of a STAKEHOLDER.e.g. LEARNER, LEARNING OPPORTUNITY PROVIDER. Becomes effective. This attribute may appear prefixed with the role that is currently being undertaken. In this event the start date is that of the specifically named role	N	Y	N	Simple_Date_Time	Stakeholder Role	Stakeholder_Role_Eff_Date	

**Entity: LO Enrolment Work Experience**

The details of employment type SERVICE PROVISIONS that a LEARNER requires to be considered as part of the LEARNING OPPORTUNITY ENROLMENT

Attribute Name	Attribute Definition	P K	F K	M	Datatype	Parent Entity	Parent Attribute	Code List
LO_Provider_Stakeholder_Id	A value that denotes and distinguishes the STAKEHOLDER	Y	Y	Y	Simple_String (1, 32)	Learning Opportunity Enrolment	LO_Provider_Stakeholder_Id	

LO_Provider_Role_Type	A Code that identifies a specific role of a STAKEHOLDER.e.g. LEARNER, LEARNING OPPORTUNITY PROVIDER. This attribute may appear prefixed with the role that is currently being undertaken. In this event the role_type is that specifically named role	Y	Y	Y	Simple_String (1, 50)	Learning Opportunity Enrolment	LO_Provider_Role_Type
LO_Provider_Role_Eff_Date	The date at which the specific role of a STAKEHOLDER.e.g. LEARNER, LEARNING OPPORTUNITY PROVIDER. Becomes effective. This attribute may appear prefixed with the role that is currently being undertaken. In this event the start date is that of the specifically named role	Y	Y	Y	Simple_Date_Time	Learning Opportunity Enrolment	LO_Provider_Role_Eff_Date
Learner_Stakeholder_Id	A value that denotes and distinguishes the STAKEHOLDER	Y	Y	Y	Simple_String (1, 32)	Learning Opportunity Enrolment	Learner_Stakeholder_Id
Learner_Role_Type	A Code that identifies a specific role of a STAKEHOLDER.e.g. LEARNER, LEARNING OPPORTUNITY PROVIDER. This attribute may appear prefixed with the role that is currently being undertaken. In this event the role_type is that specifically named role	Y	Y	Y	Simple_String (1, 50)	Learning Opportunity Enrolment	Learner_Role_Type

Learner_Role_Eff_Date	The date at which the specific role of a STAKEHOLDER.e.g. LEARNER, LEARNING OPPORTUNITY PROVIDER. Becomes effective. This attribute may appear prefixed with the role that is currently being undertaken. In this event the start date is that of the specifically named role	Y	Y	Y	Simple_Date_Time	Learning Opportunity Enrolment	Learner_Role_Eff_Date	
Stakeholder_Role_Rel_Eff_Date	The date from which the stakeholder role relationship commenced	Y	Y	Y	Simple_Date_Time	Learning Opportunity Enrolment	Stakeholder_Role_Rel_Eff_Date	
Stakeholder_Role_Rel_Type	A Code that identifies a specific relationship between STAKEHOLDER ROLES e.g. LEARNER and LEARNING OPPORTUNITY PROVIDER. Tutor Group, Class, Consortium etc	Y	Y	Y	Simple_String (1, 50)	Learning Opportunity Enrolment	Stakeholder_Role_Rel_Type	
Learning_Opportunity_Name	A value that denotes the LEARNING OPPORTUNITY	Y	Y	Y	Simple_String (1, 255)	Learning Opportunity Enrolment	Learning_Opportunity_Name	
Learning_Opportunity_Eff_Date	The date and time from which the LEARNING OPPORTUNITY is offered to LEARNERS.	Y	Y	Y	Simple_Date_Time	Learning Opportunity Enrolment	Learning_Opportunity_Eff_Date	
Delivery_Point_Locator_Id	A value that denotes and distinguishes the LOCATOR.	Y	Y	Y	Simple_String (1,36)	Learning Opportunity Enrolment	Delivery_Point_Locator_Id	
Supplier_Id	A value that denotes and distinguishes the STAKEHOLDER	Y	Y	Y	Simple_String (1, 32)	Service Provision	Supplier_Id	

Supplier_Role_Type	A Code that identifies a specific role of a STAKEHOLDER.e.g. LEARNER, LEARNING OPPORTUNITY PROVIDER. This attribute may appear prefixed with the role that is currently being undertaken. In this event the role_type is that specifically named role	Y	Y	Y	Simple_String (1, 50)	Service Provision	Supplier_Role_Type
Supplier_Role_Effective_Date	The date at which the specific role of a STAKEHOLDER.e.g. LEARNER, LEARNING OPPORTUNITY PROVIDER. Becomes effective. This attribute may appear prefixed with the role that is currently being undertaken. In this event the start date is that of the specifically named role	Y	Y	Y	Simple_Date_Time	Service Provision	Supplier_Role_Effective_Date
Receiver_Id	A value that denotes and distinguishes the STAKEHOLDER	Y	Y	Y	Simple_String (1, 32)	Service Provision	Receiver_Id
Receiver_Role_Type	A Code that identifies a specific role of a STAKEHOLDER.e.g. LEARNER, LEARNING OPPORTUNITY PROVIDER. This attribute may appear prefixed with the role that is currently being undertaken. In this event the role_type is that specifically named role	Y	Y	Y	Simple_String (1, 50)	Service Provision	Receiver_Role_Type

Receiver_Role_Effective_Date	The date at which the specific role of a STAKEHOLDER.e.g. LEARNER, LEARNING OPPORTUNITY PROVIDER. Becomes effective. This attribute may appear prefixed with the role that is currently being undertaken. In this event the start date is that of the specifically named role	Y	Y	Y	Simple_Date_Time	Service Provision	Receiver_Role_Effective_Date	
Service Id	A value that denotes and distinguishes the SERVICE	Y	Y	Y		Service Provision	Service Id	
Service_Provision_Eff_Date	The date from which the SERVICE PROVISION commenced	Y	Y	Y	Simple_Date_Time	Service Provision	Service_Provision_Eff_Date	
Service_Type	A Code that identifies the type of SERVICE supplied or received e.g, Resources, Home Help, etc	Y	Y	Y	Simple_String(1,50)	Service Provision	Service_Type	
Learning_Opp_Delivery_Eff_Date	The date and time from which the LEARNING OPPORTUNITY DELIVERY will take place.	Y	Y	Y	Simple_Date_Time	Learning Opportunity Enrolment	Learning_Opp_Delivery_Eff_Date	