

Field Description	Field Abbreviation	Field Length	Field Type	Field Version
Location of employment (county/unitary authority level)	XLOCUC01	4	Char	5.4.1

## VALID ENTRIES

England county codes:

C800	Bath and North East Somerset
C822	Bedford
C823	Central Bedfordshire
C889	Blackburn with Darwen
C890	Blackpool
C837	Bournemouth
C867	Bracknell Forest
C846	Brighton and Hove
C825	Buckinghamshire
C873	Cambridgeshire
C895	Cheshire East
C896	Cheshire West and Chester
C801	City of Bristol
C831	City of Derby
C810	City of Kingston upon Hull
C856	City of Leicester
C892	City of Nottingham
C879	City of Plymouth
C851	City of Portsmouth
C852	City of Southampton
C861	City of Stoke-on-Trent
C816	City of York
C908	Cornwall
C909	Cumbria
C841	Darlington
C830	Derbyshire
C878	Devon
C835	Dorset
C840	County Durham
C811	East Riding of Yorkshire
C845	East Sussex
C881	Essex
C916	Gloucestershire
C329	Greater London
C369	Greater Manchester
C876	Halton

C850	Hampshire
C805	Hartlepool
C884	Herefordshire
C919	Hertfordshire
C921	Isle of Wight
C420	Isles of Scilly
C886	Kent
C888	Lancashire
C855	Leicestershire
C925	Lincolnshire
C821	Luton
C887	Medway
C349	Merseyside
C806	Middlesbrough
C826	Milton Keynes
C926	Norfolk
C812	North East Lincolnshire
C813	North Lincolnshire
C802	North Somerset
C815	North Yorkshire
C928	Northamptonshire
C929	Northumberland
C891	Nottinghamshire
C931	Oxfordshire
C874	Peterborough
C836	Poole
C870	Reading
C807	Redcar and Cleveland
C857	Rutland
C893	Shropshire
C871	Slough
C933	Somerset
C803	South Gloucestershire
C379	South Yorkshire
C882	Southend-on-Sea
C860	Staffordshire
C808	Stockton-on-Tees
C935	Suffolk
C936	Surrey
C866	Swindon
C894	Telford and Wrekin
C883	Thurrock

C880	Torbay
C399	Tyne and Wear
C877	Warrington
C937	Warwickshire
C869	West Berkshire
C339	West Midlands
C938	West Sussex
C389	West Yorkshire
C865	Wiltshire
C868	Windsor and Maidenhead
C872	Wokingham
C885	Worcestershire

Welsh county codes:

C677	Blaenau Gwent - Blaenau Gwent
C672	Pen-Y-Bont Ar Ogwr - Bridgend
C676	Caerffili - Caerphilly
C681	Caerdydd - Cardiff
C669	Sir Gaerfyrddin - Carmarthenshire
C667	Sir Ceredigion - Ceredigion
C662	Conwy - Conwy
C663	Sir Ddinbych - Denbighshire
C664	Sir Y Fflint - Flintshire
C661	Gwynedd - Gwynedd
C660	Sir Ynys Môn - Isle of Anglesey
C675	Merthyr Tudful - Merthyr Tydfil
C679	Sir Fynwy - Monmouthshire
C671	Castell-Nedd Port Talbot - Neath Port Talbot
C680	Casnewydd - Newport
C668	Sir Benfro - Pembrokeshire
C666	Powys - Powys
C674	Rhondda, Cynon, Taff - Rhondda, Cynon, Taff
C670	Abertawe - Swansea
C678	Tor-Faen - Torfaen
C673	Bro Morgannwg - The Vale of Glamorgan
C665	Wreccsam - Wrexham

Scottish region codes:

C110	Aberdeenshire
C120	Angus
C130	Argyll and Bute
C100	City of Aberdeen
C180	City of Dundee
C230	City of Edinburgh

C260	City of Glasgow
C150	Clackmannanshire
C170	Dumfries and Galloway
C190	East Ayrshire
C200	East Dunbartonshire
C210	East Lothian
C220	East Renfrewshire
C240	Falkirk
C250	Fife
C270	Highland
C280	Inverclyde
C290	Midlothian
C300	Moray
C310	North Ayrshire
C320	North Lanarkshire
C330	Orkney Islands
C340	Perth and Kinross
C350	Renfrewshire
C355	Scottish Borders
C360	Shetland Islands
C370	South Ayrshire
C380	South Lanarkshire
C390	Stirling
C395	West Dunbartonshire
C400	West Lothian
C410	Western Isles (Eilean Siar)

Northern Ireland county codes:

C011	Derry City
C012	Limavady
C013	Strabane
C014	Omagh
C015	Fermanagh
C016	Coleraine
C017	Ballymoney
C018	Moyle
C019	Larne
C020	Ballymena
C021	Magherafelt
C022	Antrim
C023	Newtonabbey
C024	Carrickfergus
C025	Down

C026	Lisburn
C027	North Down
C028	Ards
C029	Castelreagh
C030	Cookstown
C031	Dungannon
C032	Craigavon
C033	Armagh
C034	Newry and Mourne
C035	Banbridge
C036	Belfast

Other codes:

NOTK	Not known
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Other codes: All country codes listed in Employment.EMPCOUNTRY in the Cyy018 DLHE record coding manual, with the exception of ZZ 'Not known' (which maps to NOTK in this field, as listed below:

## ADDITIONAL INFORMATION

This algorithm uses look-up tables provided from data initially supplied by ONS. Full postcodes are mapped to UK counties/unitary authorities for UK domiciled students for whom a full postcode is supplied. Outward postcodes are mapped to counties/unitary authorities for other UK domiciled students for whom a postcode is supplied. Country codes are generated for other UK (postcodes not assignable to counties/unitary authorities) and non-UK locations of employment.

## DEPENDENT FIELDS

None

## TECHNICAL SPECIFICATION

Please note: in the following specification, the table suffix '\_(Y2)NOV' refers to a year-specific reference derived from the reporting year. For 2012/13, Y1 is 12 and Y2 is 13, thus for 2012/13 the table suffix would be 13NOV, and for 2013/14 the suffix would be 14NOV, and so on.

The table FULLPC\_LOOKUP\_(Y2)NOV consists of 6 columns; Full Postcode (F\_FULLPC, VARCHAR2, 8), X coordinate (F\_OSEAST, NUMBER), Y coordinate (F\_OSNRTH, NUMBER), Region (F\_GOR, CHAR, 2), Country (F\_CTRY, VARCHAR2, 2) and County/Unitary Authority code (F\_XDOMUC01, VARCHAR2, 4). This table has been supplied in an Oracle table provided by Data Management.

The table OUTPC\_LOOKUP\_(Y2)NOV consists of 7 columns; Outward Postcode (F\_OUTPC, VARCHAR2, 4), Full Postcode (F\_FULLPC, VARCHAR2, 8), X coordinate (F\_OSEAST, NUMBER), Y coordinate (F\_OSNRTH, NUMBER), Region (F\_GOR, CHAR, 2), Country (F\_CTRY, VARCHAR2, 2) and County/Unitary Authority code (F\_XDOMUC01, VARCHAR2, 4). This table has been supplied in an Oracle table provided by Data Management.

The table T\_OVERSEAS\_LOOKUP\_V8 consists of 3 columns; Country of domicile (F\_DOMICILE, VARCHAR2, 4), Region of domicile (F\_REGION, VARCHAR2, 4) and Country of domicile (ISO code) (F\_DOMICILE\_ISO, VARCHAR2, 2). This table has been supplied in an Oracle table provided by Data Management.

Unknown EMPCOUNTRY value (ZZ Not known) does not appear in T\_OVERSEAS\_LOOKUP\_V8 and is assigned a value NOTK. All other country domicile codes should be matched in T\_OVERSEAS\_LOOKUP\_V8, F\_DOMICILE\_ISO. If any other code appears in EMPCOUNTRY that is not contained in T\_OVERSEAS\_LOOKUP\_V8, the function should return a Null to be picked up by impossible values testing to highlight this issue.

Validation exists to ensure that EMPPCODE is completed with a valid postcode (EMPCOUNTRY must be returned

based on a set of schema enumeration values), and either EMPPCODE or EMPCOUNTRY are returned where coverage dictates. Although unlikely, validation is switchable for these fields. Consequently the technical specification steps have been designed to account for all possible permutations of data returned to HESA - allowing for possible validation switches.

The function is to be performed top down, as follows.

1. The contents of EMPPCODE to be converted to UPPER CASE.
2. If set of characters from EMPPCODE found in FULLPC\_LOOKUP\_(Y2)NOV.F\_FULLPC, then return FULLPC\_LOOKUP\_(Y2)NOV.F\_XDOMUC01 into XLOCUC01.
3. Else, trim characters in EMPPCODE (maximum of 4 characters) up to first space (if there is one).
4. If set of trimmed characters from EMPPCODE found in OUTPC\_LOOKUP\_(Y2)NOV.F\_OUTPC, then return OUTPC\_LOOKUP\_(Y2)NOV.F\_XDOMUC01 into XLOCUC01.
5. Else, if set of trimmed characters from EMPPCODE not found in OUTPC\_LOOKUP\_(Y2)NOV.F\_OUTPC or EMPPCODE is Null, and EMPCOUNTRY is Null or ZZ, then return NOTK into XLOCUC01.
6. Else, if set of trimmed characters from EMPPCODE not found in OUTPC\_LOOKUP\_(Y2)NOV.F\_OUTPC or EMPPCODE is Null, and set of characters in EMPCOUNTRY found in T\_OVERSEAS\_LOOKUP\_V8.F\_DOMICILE\_ISO, then return T\_OVERSEAS\_LOOKUP\_V8.F\_DOMICILE\_ISO into XLOCUC01.
7. Else, if set of trimmed characters from EMPPCODE not found in OUTPC\_LOOKUP\_(Y2)NOV.F\_OUTPC or EMPPCODE is Null, and set of characters in EMPCOUNTRY are not found in T\_OVERSEAS\_LOOKUP\_V8.F\_DOMICILE\_ISO, then return Null in XLOCUC01.

**Null is not a XLOCUC01 valid entry, and are to be identified at impossible values testing and flagged to HESA's Data Management team.**

(The deriving to a Null is an error, highlighting that a value in the collection's EMPCOUNTRY code list is not contained within T\_OVERSEAS\_LOOKUP\_V8's F\_DOMICILE\_ISO column. This is designed so that the derived process does not fail if an invalid EMPCOUNTRY code is processed).

**Carry out processing top down:**

Employment. EMPPCODE (CHAR 8)	Employment. EMPCOUNTRY (CHAR 2)	XLOCUC01
1. The contents of EMPPCODE to be converted to UPPER CASE		
2. EMPPCODE value found in FULLPC_LOOKUP_(Y2)NOV. F_FULLPC		FULLPC_LOOKUP_(Y2)NOV. F_XDOMUC01
3. Trim characters (max. of 4) to first space (if there is one), from EMPPCODE		
4. Set of characters in EMPPCODE (max. of 4) trimmed to first space (if there is one), found in OUTPC_LOOKUP_(Y2)NOV.F_OUTPC		OUTPC_LOOKUP_(Y2)NOV. F_XDOMUC01
5, 6, 7. Set of characters in EMPPCODE (max. of 4) trimmed to first space (if there is one) not found in OUTPC_LOOKUP_(Y2)NOV. F_OUTPC or EMPPCODE is Null	5. EMPCOUNTRY is Null or ZZ	NOTK
	6. Set of characters in EMPCOUNTRY found in T_OVERSEAS_LOOKUP_V8. F_DOMICILE_ISO	T_OVERSEAS_LOOKUP_V8. F_DOMICILE_ISO
	7. Set of characters in EMPCOUNTRY not found in T_OVERSEAS_LOOKUP_V8. F_DOMICILE_ISO	Null

Revision 5.2.1 2013-09-30 Technical specification revised to remove the TEMP processing stage, which is no longer required with the complete move of the source data tables to ISO-3166-1 and the consequent removal of old-style HESA country codes in the postcode lookup tables for F\_CTRY; and W, X and Y region codes in F\_GOR. T\_OVERSEAS\_LOOKUP\_V6 updated to T\_OVERSEAS\_LOOKUP\_V7 to reflect the move to ISO\_3166-1 codes in F\_REGION. Table suffixes changed to be non-year specific, with explanatory sentence added. Valid entry PS relabelled from 'Occupied Palestinian Territories [Palestinian Territory, Occupied] {formerly West Bank (including East Jerusalem) and Gaza Strip}' to 'Occupied Palestinian Territories [Palestine, State of] {formerly West Bank (including East Jerusalem) and Gaza Strip}' to align with ISO 3166-1.

Revision 5.3.1 2014-04-23 Valid entry BO relabelled to 'Bolivia [Bolivia, Plurinational State of]', LY to 'Libya' and and VE 'Venezuela [Venezuela, Bolivarian Republic of]' to reflect the ISO-3166-1 and the National Statistics Country Classification (NSCC) standards.

Revision 5.4.1 2014-09-10 (Technical specification revised, changing T\_OVERSEAS\_LOOKUP\_V7 to T\_OVERSEAS\_LOOKUP\_V8. This incorporates the change of Croatia (HR) from valid entry GROE (Other Europe) to GREU (Other European Union)).