2022-23 Individualised Learner Record data checking tool

2022-23 Transparency attainment data summary technical document and rebuild instructions

Contents

Summary

1. This document describes the algorithms applied to the 2022-23 Individualised Learner Record (ILR) submitted to the Education and Skills Funding Agency (ESFA) to determine a provider's Transparency attainment data.

2. The Transparency attainment data summary presents the number (headcount) of UK-domiciled undergraduate qualifiers in 2022-23 at a provider by qualification classification achieved, mode of study, ethnicity, gender, and English Index of Multiple Deprivation (EIMD) 2019. This data forms a provider's transparency information.[1]

3. The Transparency attainment data summary can be used by higher education providers to verify and correct their 2022-23 individualised student data before submitting or signing off the final data with the ESFA.

4. Throughout the document, fields taken or derived from the ILR record are shown in capitals.

5. The Transparency attainment data summary is formed of two files. These are:

   a. Transparency attainment data summary workbook
      'TR22_Attainment_DCT_XXXXXXXX.xlsx'

   b. Transparency attainment data summary individualised file
      'TR22_Attainment_DCT_XXXXXXXX_IND.csv'

   where XXXXXXXX is the UK Provider Reference Number (UKPRN) for the provider.

6. Details of how to use individualised files are given on the Office for Students (OfS) website.[2]

7. These files can be accessed from the '2022-23 Data checking tool' area of the OfS portal. Access details will be sent to the appropriate contacts at providers when the data checking tool is available.

8. This document is aimed at readers with in-depth knowledge of the data. Readers are advised to refer to the 2022-23 ILR specification[3] when using this document.

9. Readers should refer to the 'Technical algorithms for student outcome and experience measures'[4] for definitions of field names referenced in the algorithms in this document with the prefix 'IP'.

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[1] For details of the transparency information, see 'Condition F1: Transparency information' in Securing student success: Regulatory framework for higher education in England

[2] See Office for Students - Working with individualised files

[3] See GOV.UK - 2022-23 ILR specification

[4] See 'Technical algorithms for student outcome and experience measures', available from Description and definition of student outcome and experience measures

10. We will document any changes or corrections to the algorithms in this document on the 'Data checking tool' pages of the OfS website under 'Updates'.[5]

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[5] See Office for Students - Data checking tool

Changes from previous publications

11. This section describes any changes to the algorithms since the equivalent was published for the 2020-21 data checking tool in '2020-21 Transparency attainment data summary: HESA Student, HESA Student Alternative and ILR technical document and rebuild instructions' available from the 'Data checking tool documentation archive' section of the OfS website.[6] This was the most recent publication of algorithms relating to the transparency attainment data summary as there was no equivalent publication relating to 2021-22 data.

12. We have removed TRSOURCE as this document now only contains instructions for the ILR data checking tool.

13. TRMODE has been changed to the definition of IPSTARTMODE rather than IPEMPMODE.

Transparency attainment data summary files

Workbook

14. The Transparency attainment data summary workbook is the Excel workbook 'TR22_Attainment_DCT_XXXXXXXX.xlsx' which contains the following worksheets:

Table 1: Worksheets in the Transparency attainment data summary workbook

Worksheet*	Content
Information	Workbook information
Attainment 2022-23	Table showing attainment of 2022-23 qualifiers by ethnicity, gender, and EIMD 2019, classified by mode of study and award level.

* This worksheet reference corresponds to the spreadsheet tabs.

Individualised file

15. When working through this document it is necessary to use the individualised file TR22_Attainment_DCT_XXXXXXXX_IND.csv. The individualised file contains the values of all fields used to generate the figures in the 'Attainment 2022-23' worksheet of the Transparency attainment data summary workbook.

16. Fields taken from the ILR return are shown in capitals in Table 2. Fields prefixed with 'TR' are derived and are shown in capitals in Table 3.

17. Specific instructions for rebuilding the Transparency attainment data summary workbook from the individualised file are given in this document.

18. The individualised file contains one row per learning aim for a learner (each unique combination of UKPRN, LEARNREFNUMBER, LEARNAIMREF and AIMSEQNUMBER).

Fields used to create the Transparency attainment data summary

19. The ILR and Learning Aim Reference Service (LARS) fields used to generate the Transparency attainment data summary are listed in Table 2.

Table 2: ILR and LARS fields used in the Transparency attainment data summary

Name	Description	Source
UKPRN	UK Provider Reference Number	ILR
LEARNREFNUMBER	Learner reference number	ILR
LEARNAIMREF	Learning aim reference code	ILR
AIMSEQNUMBER	Learning aim sequence number	ILR
POSTCODEPRIOR	Postcode of learner prior to enrolment	ILR
DOMICILE	Domicile of learner	ILR
ETHNICITY	Ethnicity of learner	ILR
SEX	Sex of learner	ILR
LEARNSTARTDATE	Learning start date	ILR
LEARNPLANENDDATE	Planned learning end date	ILR
MODESTUD	Mode of study	ILR
PROGTYPE	Programme type	ILR
OUTGRADE	Grade awarded to learner	ILR
OUTCOME	Indicates whether learner has achieved learning aim	ILR
NOTIONALNVQLEVELV2	Level of the learning aim	LARS
NVQ_LEV	Level of the NVQ	LARS
UNITTYPE	The learning aim's unit type	LARS
LEARNAIMREFTYPE	The learning aim type of the learning aim	LARS

Description of derived fields

20. The OfS derived fields used to generate the Transparency attainment data summary are listed in Table 3.

Table 3: List of OfS derived fields used in the Transparency attainment data summary

Name	Description	Paragraph
TRAWARD_DETAIL	Detailed grouping of qualification awarded to learner	21
TRAWARDLEVEL	Broad grouping of qualification awarded to learner	23
TRAWARD	Broad grouping of qualification awarded to learner relevant to the Transparency attainment population	24
TRCRSELGTH	Expected duration of study	25
TRMODE	Mode of study linked to qualification	27
TRDOM	Broad level domicile of learner	28
TRETHNIC	Ethnicity of learner	29
TRSEX	Sex of learner	30
TREIMD	English Index of Multiple Deprivation (EIMD) 2019 quintile of learner's address prior to entry	31
TRDEGCLASS	Degree classification of award	32
TRATTAINPOP	Indicator for inclusion of learner in the Transparency attainment population	33

Derived fields for calculating Transparency attainment

TRAWARD_DETAIL

21. This field allocates the qualification awarded to the learner during the reporting year to a level of qualification awarded.

22. This field has the same definition as IPOFSQAIM and IPAWARD_DETAIL

Value	Description	Definition
PHD	PhD and MPhil	LEARNAIMREFTYPE in (1411, 1412) and (NOTIONALNVQLEVELV2 in (4, 5, 6, 7, 8, H) or NVQ_LV in (4, 5, H))
HIGHER	Higher degree	Provider specific override
MASTER	Masters'	LEARNAIMREFTYPE in (0393, 1410, 1463, 1464, 2001, 9101, 9109, 9114, E008) and

Value	Description	Definition
		(NOTIONALNVQLEVELV2 in (4, 5, 6, 7, 8, H) or NVQ_LV in (4, 5, H))
PGCE	PGCE and other postgraduate initial teacher training (ITT)	LEARNAIMREFTYPE in (6004, 9103, 9115) and (NOTIONALNVQLEVELV2 in (4, 5, 6, 7, 8, H) or NVQ_LV in (4, 5, H))
PGCERT	Postgraduate certificate	LEARNAIMREFTYPE = 0065 and (NOTIONALNVQLEVELV2 in (4, 5, 6, 7, 8, H) or NVQ_LV in (4, 5, H))
PGDIP	Postgraduate diploma	LEARNAIMREFTYPE in (0125, 0126) and (NOTIONALNVQLEVELV2 in (4, 5, 6, 7, 8, H) or NVQ_LV in (4, 5, H))
ENHANCED	Enhanced first degree (or integrated masters')	LEARNAIMREFTYPE = 6003 and (NOTIONALNVQLEVELV2 in (4, 5, 6, 7, 8, H) or NVQ_LV in (4, 5, H))
FIRST	First degree	LEARNAIMREFTYPE in (0394, 1406, 1407, 1408, 1409, 1462, 6002, 9000, 9002, 9107, E007) and LEARNAIMREF ≠ 00241018 and (NOTIONALNVQLEVELV2 in (4, 5, 6, 7, 8, H) or NVQ_LV in (4, 5, H))
CERTED	CertEd	LEARNAIMREFTYPE in (1465, 1466, 9111) and (NOTIONALNVQLEVELV2 in (4, 5, 6, 7, 8, H) or NVQ_LV in (4, 5, H))

Value	Description	Definition
CET	Certificate in Education and Training	LEARNAIMREFTYPE = 1457 and (NOTIONALNVQLEVELV2 in (4, 5, 6, 7, 8, H) or NVQ_LV in (4, 5, H))
CTLLS	Certificate in teaching in the lifelong learning sector	LEARNAIMREFTYPE = 1451 and (NOTIONALNVQLEVELV2 in (4, 5, 6, 7, 8, H) or NVQ_LV in (4, 5, H))
DET	Diploma in Education and Training	(LEARNAIMREFTYPE in (1458, 1459) or LEARNAIMREF in (60102548, 60104624, 60104636, 60105185, 6010580X, 60112281, 60114629,60116225, 60123837, 60124453, 60125032, 6012717X, 60132644, 60153507, 60161991, 60179752, 60181229, 60305757)) and (NOTIONALNVQLEVELV2 in (4, 5, 6, 7, 8, H) or NVQ_LV in (4, 5, H))
DIPHE	DipHE	LEARNAIMREFTYPE = 9112 and (NOTIONALNVQLEVELV2 in (4, 5, 6, 7, 8, H) or NVQ_LV in (4, 5, H))
DTLLS	Diploma in teaching in the lifelong learning sector	LEARNAIMREFTYPE = 1449 and (NOTIONALNVQLEVELV2 in (4, 5, 6, 7, 8, H) or NVQ_LV in (4, 5, H))
FOUDEG	Foundation degree	LEARNAIMREFTYPE = 9110 and (NOTIONALNVQLEVELV2 in (4, 5, 6, 7, 8, H) or NVQ_LV in (4, 5, H))
HIGHCERT	Higher certificate	LEARNAIMREFTYPE = 0084 and

Value	Description	Definition
		(NOTIONALNVQLEVELV2 in (4, 5, 6, 7, 8, H) or NVQ_LV in (4, 5, H))
HNC	Higher National Certificate	LEARNAIMREFTYPE = 0031 and LEARNAIMREF not in (00304787, 00304789) and (NOTIONALNVQLEVELV2 in (4, 5, 6, 7, 8, H) or NVQ_LV in (4, 5, H))
HND	Higher National Diploma	LEARNAIMREFTYPE in (0032, 1454) and LEARNAIMREF not in (00304787, 00304789) and (NOTIONALNVQLEVELV2 in (4, 5, 6, 7, 8, H) or NVQ_LV in (4, 5, H))
PTLLS	Preparing to teach in the lifelong learning sector	LEARNAIMREFTYPE = 1450 and (NOTIONALNVQLEVELV2 in (4, 5, 6, 7, 8, H) or NVQ_LV in (4, 5, H))
UNICERT	University certificate	LEARNAIMREFTYPE = 9001 and (NOTIONALNVQLEVELV2 in (4, 5, 6, 7, 8, H) or NVQ_LV in (4, 5, H))
FDBC	Foundation degree bridging course	LEARNAIMREFTYPE in (6001, 9113) and LEARNAIMREF ≠ 00301548 and (NOTIONALNVQLEVELV2 in (4, 5, 6, 7, 8, H) or NVQ_LV in (4, 5, H))
OTHHE_CC	Other higher education class code	(UNITTYPE = CLASS CODE and (NOTIONALNVQLEVELV2 = H or

Value	Description	Definition
		NVQ_LV = 4, 5, H))
OTHHE_U	Other higher education unit	(UNITTYPE = UNIT and
		(NOTIONALNVQLEVELV2 = H or
		NVQ_LV = 4, 5, H)) or
		(LEARNAIMREF begins with a letter and
		LEARNAIMREF not in (Q1050896, Q1050973, Q1051040, Q1052740, Q1052741, Q1054389, Q1054488) and
		(NOTIONALNVQLEVELV2 = H or
		NVQ_LV = 4, 5, H))
		and not above
OTHHE_Q	Other higher education qualification	(UNITTYPE = QUALIFICATION and
		(NOTIONALNVQLEVELV2 = H or
		NVQ_LV = 4, 5, H)) or
		((NOTIONALNVQLEVELV2 = H or
		NVQ_LV = 4, 5, H))
		and not above
OTHL[X]_CC	Other Level X class code, where X is the level as indicated by NOTIONALNVQLEVELV2	(NOTIONALNVQLEVELV2 = X and UNITTYPE = CLASS CODE)
OTHL[X]_U	Other Level X unit, where X is the level as indicated by NOTIONALNVQLEVELV2	(NOTIONALNVQLEVELV2 = X and UNITTYPE = UNIT) or (NOTIONALNVQLEVELV2 = X and

Value	Description	Definition
		LEARNAIMREF begins with a letter and
		LEARNAIMREF not in (Q1050896, Q1050973, Q1051040, Q1052740, Q1052741, Q1054389, Q1054488))
		and not above
OTHL[X]_Q	Other Level X qualification, where X is the level as indicated by NOTIONALNVQLEVELV2	(NOTIONALNVQLEVELV2 = X and
		UNITTYPE = QUALIFICATION)) or
		(NOTIONALNVQLEVELV2 = X)
		and not above
NA	Not applicable as aim is a programme aim	LEARNAIMREF = ZPROG001
FE	Further education course	Otherwise

TRAWARDLEVEL

23. This field allocates the qualification awarded to the learner during the reporting year to a broad grouping. This field has the same definition as IPAWARDLEVEL.

Value	Description	Definition
PHD	PhD and MPhil	TRAWARD_DETAIL in (PHD, HIGHER)
OPGR	Other postgraduate research	TRAWARD_DETAIL = OTHL7_Q_R
PGTM	Postgraduate taught masters'	TRAWARD_DETAIL = MASTER
PGCE	PGCE	TRAWARD_DETAIL = PGCE
OPGT	Other postgraduate taught	TRAWARD_DETAIL in (DTLLS_PG, OTHL7_Q, OTHL8_Q, PGCERT, PGDIP)
PUGD	Degrees including a postgraduate component	TRAWARD_DETAIL in (ENHANCED, MEDVETDENT)
PUGO	Other qualifications with a postgraduate component	TRAWARD_DETAIL = PROCONGRAD
PGCREDIT	Credit at a postgraduate level	TRAWARD_DETAIL in (OTHL7_CC, OTHL8_CC, OTHL7_U, OTHL8_U)
DEG	First degree	TRAWARD_DETAIL = FIRST

Value	Description	Definition
OUG	Other undergraduate	TRAWARD_DETAIL in (CERTED, CET, CTLLS, DET, DIPHE, DTLLS, FOUDEG, HIGHCERT, HND, HNC, PTLLS, UNICERT, OTHL6_Q, OTHL5_Q, OTHL4_Q, OTHHE_Q, UGUNSPEC)
UGCREDIT	Credit at an undergraduate level	IPAWARD_DETAIL in (FDBC, OTHL4_CC, OTHL5_CC, OTHL6_CC, OTHL4_U, OTHL5_U, OTHL6_U, OTHHE_CC, OTHHE_U)
FE	Not higher education	TRAWARD_DETAIL = FE

TRAWARD

24. This field simplifies the broad grouping of the qualification awarded to the learner during the reporting year, allocated by TRAWARDLEVEL.

Value	Description	Definition
FDEG	First degree	TRAWARDLEVEL = DEG, PUGD
OUG	Other undergraduate	TRAWARDLEVEL = OUG, PUGO
OTH	Other including no award	Otherwise

TRCRSELGTH

25. This field has the same definition as IPCRSELGTH.

26. The expected course length is the difference between LEARNSTARTDATE and LEARNPLANENDDATE. This expected length is rounded to a whole number of years to give the value of TRCRSELGTH.

TRMODE

27. This field classifies the qualification mode of study. This field has the same definition as IPSTARTMODE for full-time and part-time modes of study, and IPAPPRENTICE for apprenticeship mode of study.

Value	Description	Definition
APP	Apprenticeship	PROGTYPE = 2, 3, 20, 21, 22, 23, 25
FT	Full-time	MODESTUD = 1, 2 or
		(MODESTUD = 99, BLANK and
		(TRCRSELGTH = 1 or
		(TRCRSELGTH ≥ 1 and
		((TRCRSELGTH ≤ 2 and OFSQAIM in

Value	Description	Definition
		(HIGHER, FIRST, FOUDEG, DIPHE, HND)) or
		(TRCRSELGTH ≤ 3 and OFSQAIM in (HIGHER, FIRST)) or
		(TRCRSELGTH ≤ 4 and OFSQAIM = ENHANCED)))))
		and not above
PT	Part-time	Otherwise

TRDOM

28. This field classifies whether the learner is domiciled in England, Scotland, Wales, Northern Ireland, outside of the UK or their domicile is unknown. This field has the same definition as IPDOM for values of E, S, W, N and UNKNOWN.

Value	Description	Definition
E	England	DOMICILE = XF or
		(DOMICILE = XJ, XK, GB and
		(POSTCODEPRIOR is in England or
		((POSTCODEPRIOR = BLANK or
		POSTCODEPRIOR begins ZZ) and
		Provider in England))) or
		(DOMICILE = ZZ, BLANK and POSTCODEPRIOR is in England)
S	Scotland	DOMICILE = XH or
		(DOMICILE = XJ, XK, GB and
		(POSTCODEPRIOR is in Scotland or
		((POSTCODEPRIOR = BLANK or

Value	Description	Definition
		POSTCODEPRIOR begins ZZ) and
		Provider in Scotland))) or
		(DOMICILE = ZZ, BLANK and POSTCODEPRIOR is in Scotland)
W	Wales	DOMICILE = XI or
		(DOMICILE = XJ, XK, GB and
		(POSTCODEPRIOR is in Wales or
		((POSTCODEPRIOR = BLANK or
		POSTCODEPRIOR begins ZZ) and
		Provider in Wales))) or
		(DOMICILE = ZZ, BLANK and POSTCODEPRIOR is in Wales)
N	Northern Ireland	DOMICILE = XG or
		(DOMICILE = XJ, XK, GB and
		(POSTCODEPRIOR is in Northern Ireland or
		((POSTCODEPRIOR = BLANK or
		POSTCODEPRIOR begins ZZ) and
		Provider in Northern Ireland))) or
		(DOMICILE = ZZ, BLANK and POSTCODEPRIOR is in Northern Ireland)
UNKNOWN	Domicile not known	DOMICILE = ZZ, BLANK and (POSTCODEPRIOR = BLANK or invalid)
NON-UK	Not domiciled in UK	Otherwise

TRETHNIC

29. This field classifies the ethnicity of the learner. This field has the same definition as IPETHNIC.

Value	Description	Definition
A	Asian	ETHNICITY = 39, 40, 41, 42, 43
B	Black	ETHNICITY = 44, 45, 46
M	Mixed	ETHNICITY = 35, 36, 37, 38
W	White	ETHNICITY = 31, 32, 34
O	Other	ETHNICITY = 33, 47, 98
U	Not provided	ETHNICITY = 99

TRSEX

30. This field classifies the sex of the learner. This field has the same definition as IPSEX.

Value	Description	Definition
F	Female	SEX = F
M	Male	SEX = M
O	Other	Otherwise

TREIMD

31. This field shows the English Index of Multiple Deprivation (EIMD) 2019 quintile of the postcode of the learner's address prior to entry.[7] To assign an EIMD 2019 quintile to a learner's address prior to entry, the postcode is matched to the National Statistics Postcode Lookup (NSPL) for the United Kingdom (May 2022 release) to determine the Lower Layer Super Output Area (LSOA) in which the postcode exists. The EIMD 2019 quintile of the LSOA is then assigned.

Value	Description	Definition
1, 2, 3, 4, 5	Assigned EIMD 2019 quintile 1 (most deprived) to 5 (least deprived)	TRDOM = E and POSTCODEPRIOR matched to postcode and LSOA in NSPL
U	EIMD 2019 quintile unknown	TRDOM = E and (POSTCODEPRIOR = BLANK or POSTCODEPRIOR not matched to postcode and LSOA in NSPL)
NA	Learner domicile outside of England or unknown	TRDOM ≠ E

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[7] For information on the English Index of Multiple Deprivation 2019 see English indices of deprivation 2019

TRDEGCLASS

32. This field indicates the degree classification awarded.

Value	Description	Definition
1	First class honours degree	TRAWARD = FDEG and OUTGRADE = FI
2_1	Upper second class honours degree	TRAWARD = FDEG and OUTGRADE = SU
2_2	Lower second class honours degree	TRAWARD = FDEG and OUTGRADE = SL, SE
3	Third class honours degree	TRAWARD = FDEG and OUTGRADE = TH, FO
UN	Degree awarded without classification	TRAWARD = FDEG and not above
NA	Otherwise	Otherwise

TRATTAINPOP

33. This field indicates whether the learner is included in the Transparency attainment population.

Value	Description	Definition
1	Learner is counted in the Transparency attainment population	TRDOM = E, S, W, N and TRAWARD = FDEG, OUG and OUTCOME = 1
0	Otherwise	Otherwise

Rebuild instructions

34. The individualised file, TR22_Attainment_DCT_XXXXXXXX_IND.csv, can be used to interrogate the data and our calculation of derived fields by filtering to certain groups of records. Full details of how to access and use individualised files are given on the OfS website.[8]

35. Specific instructions to rebuild the Transparency attainment data summary figures in the Transparency attainment data summary workbook, TR22_Attainment_DCT_XXXXXXXX.xlsx, are provided below.

36. Additional fields not described in the field tables or algorithms above have been included in the individualised file for reference. These additional fields are listed in Table 4.

Table 4: Additional fields included in the Transparency attainment data summary ILR individualised file

Field name	Description	Data source
LEARNAIMREFTITLE	Learning aim title	LARS

37. The following instructions assume the user has the individualised file open in Microsoft Excel.

38. To apply filters to the column headings, highlight the headings. From the 'Data' tab in the toolbar select 'Filter'.

39. The headcount present in the summary workbook is the number of records present in the individualised file once the relevant filters have been applied.

40. To filter to the Transparency attainment population, TRATTAINPOP = 1 should be selected.

41. Filters can then be applied to TRMODE, TRDEGCCLASS, TREIMD, TRETHNIC and TRSEX to reproduce the headcount of qualifiers (number of records) in the Transparency attainment summary workbook.

42. For example, to reproduce the headcount for upper second class honours degrees awarded to female qualifiers who studied full-time you would apply the following filters:

- TRATTAINPOP = 1

- TRDEGCLASS = 2_1

- TRMODE = FT

- TRSEX = F

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[8] The OfS website – Working with individualised files

- The number of records in the filtered dataset represents the headcount in TR22_Attainment_DCT_XXXXXXXX.xlsx.

43. To reproduce the headcount of classified first degrees awarded for a given mode of study and characteristic, filter to the required mode and characteristic split and select TRAWARD = 1, 2_1, 2_2, 3.

44. For example, to reproduce the headcount of classified first degrees awarded to qualifiers from EIMD quintile 1 areas who studied full-time you would apply the following filters:

- TRATTAINPOP = 1

- TRDEGCLASS = 1, 2_1, 2_2, 3

- TRMODE = FT

- TREIMD = 1

The number of records in the filtered dataset represents the headcount in TR22_Attainment_DCT_XXXXXXXX.xlsx.