

Annual Financial Return 2025 (AFR25) data checking tool

AFR25 data checking tool technical document and rebuild instructions

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Summary

- This document describes the algorithms applied to the Student (24056) record submitted to the designated data body (DDB) to generate a provider's higher education student full-time equivalent (FTE) numbers, as required in Tables 7 and 7a in the Annual Financial Return 2025 (AFR25) workbook. Throughout the document, fields taken or derived from the Student (24056) record are shown in capitals.
- 2. The data in the AFR25 data checking tool outputs can be used by higher education providers to verify and correct their 2024-25 individualised student data. They can also be used to help populate Tables 7 and 7a in their AFR25 workbook. The outputs are also an opportunity for providers to give feedback on any potential issues with Office for Students (OfS) algorithms and are not intended to be used for any other purpose.
- 3. Please note that this document is only intended for providers whose financial year end aligns with the academic year used in the Student record, i.e. 31 July 2025. AFR25 data checking tool (DCT) outputs will only be available for these providers.
- 4. The AFR25 output contains the following files:
 - a. AFR25 DCT workbook 'AFR25_DCT_ XXXXXXXX.xlsx'
 - b. AFR25 DCT individualised file 'AFR25_DCT_XXXXXXX_IND.csv'

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

- 5. These files can be accessed through the Higher Education Statistics Agency (HESA) Data Platform.¹ Once your submitted data has been processed, your file can be downloaded from the 'IRIS' report, under the section 'Additional Collection Reports'.
- 6. Details of how to use individualised files are given on the OfS website at: <u>Working with</u> <u>individualised files Office for Students</u>.
- 7. This document is aimed at readers with in-depth knowledge of the data. It builds on both HESA Legacy (2021-22) and HESA Data Futures (2022-23, 2023-24 and 2024-25) items. Readers are advised to refer to a copy of the Student record 24056 coding manual,² 23056 coding manual,³ 22056 coding manual⁴ and 21051 coding manual.⁵
- 8. We will document in the data checking tool section of the OfS website any changes or corrections to the algorithms in this document.⁶

- ³ See <u>Student record 23056 coding manual</u>.
- ⁴ See <u>Student record 22056 coding manual</u>.
- ⁵ See <u>Student record 2021/22 | HESA</u>.
- ⁶ See <u>Data checking tool Office for Students</u>.

¹ See <u>HESA Data Platform</u>.

² See <u>Student record – 24056 coding manual</u>.

Terminology

- 1. The algorithms below apply to the Student (24056) collection.
- 2. In the Student (24056) return, the fields that we use are associated with a student engagement.
- 3. The academic year '2024-25' below refers to the academic year starting on 1 August 2024 and ending on 31 July 2025.

AFR25 output file

Workbook

4. The AFR25 DCT workbook is the Excel workbook AFR25_DCT_ XXXXXXXX.xlsx, which contains the following worksheets:

Table 1: Worksheets in the AFR25 DCT workbook

Worksheet*	Title	
Coversheet	Annual Financial Return 2025 higher education student FTEs data summary.	
Table 7 FTEs	Annual Financial Return 2025 higher education student FTEs data summary.	
Table 7a FTEs	Annual Financial Return 2025 higher education non-UK student FTEs data summary by domicile.	

* This worksheet reference corresponds to the spreadsheet tabs.

Individualised file

- 5. The individualised student data file (AFR25_DCT_XXXXXXX_IND.csv) is supplied for transparency and to help providers that wish to derive FTEs using the OfS methodology. The individualised file contains the values of all the fields used to generate the data summary tables.
- 6. Fields taken from the Student (24056) return or derived as part of the AFR25 DCT output are shown in capitals using the names given in Tables 2 and 3.
- 7. Specific instructions for rebuilding the AFR student FTE data summary workbook from the individualised file are provided in this document.
- For Student (24056) data the individualised file contains one row per engagement (each unique combination of UKPRN, SID and NUMHUS). A student may have more than one engagement. We will use the generic term 'student' in this technical document and the AFR25 DCT workbook to refer to one student engagement.

2024-25 fields used to create the AFR25 outputs

- 9. The Student fields used to generate the AFR outputs are listed in Table 2.
- 10. HESA Legacy (2021-22) fields have been converted to Student (22056) fields using the HESA Legacy to Data Futures Mapping Guides.⁷

Table 2: Student (24056, 23056 and 22056) fields used in the AFR FTE calculations

Entity	Name	Description
Engagement	UKPRN	UK Provider Reference Number
Engagement	SID	Student identifier
Engagement	NUMHUS	Engagement number
Engagement	ENGSTARTDATE	Engagement start date
Qualification	QUALCAT	Qualification category
Engagement	SCSESSIONID	Student course session identifier
Engagement	SCSSTARTDATE	Student course session start date
Engagement	SCSENDDATE	Student course session end date
Engagement	PREPFLAG	Preparatory student course session flag
Engagement derived field	Z_STULOAD_CYC	Derived field represents the total student load for the engagement across the cycle
Engagement derived field	Z_MODEGRP1	Derived field represents the grouping of the student's mode of study for the engagement (granularity level 1)
Engagement derived field	Z_PERMADDCOUNTRY	Derived field represents the grouping of the location of the student's permanent home address prior to entry to the course (granularity level country)
Engagement derived field	Z_PERMADDGRP5	Derived field represents the grouping of the location of the student's permanent home address prior to entry to the course (granularity level UK home nations, crown dependencies and continents)
Engagement derived field	Z_LEVELGRP2	Derived field represents the grouping of the student's course level for the engagement (granularity level 2)
Engagement derived field	Z_POPSES_CYC	Derived field represents a marker for if the engagement is in the session population during the cycle

⁷ See <u>HESA Legacy to Data Futures Mapping Guides.</u>

Description of derived fields

- 11. The derived fields used to generate the AFR outputs are listed in Table 3.
- 12. Definitions of these fields can be found on pages 65-70 in the 'Guidance on completing the Annual Financial Return 2025 workbook' document.⁸
- 13. Fields with a suffix marked (yr) have multiple values that correspond to the end of each academic year, as indicated by SOURCE. For example: If SOURCE = 2024-25, then AFRDOMICILE(yr) is AFRDOMICILE2025.

Derived field name	Description	Paragraph
SOURCE	The reporting period of the student collection.	14
AFRDOMICILE(yr)	Domicile as UK or Non-UK.	15-16
AFRMODE(yr)	Mode of study.	17-18
AFRLEVEL(yr)	Level of study.	19-20
AFRPOP(yr)	Identifies if a student is counted within the AFR population.	21-22
AFRFTE(yr)	Total student load for an engagement in full-time equivalents.	23-24
AFRENTRANT(yr)	Identifies if a student was an entrant in this year.	25-26
AFRUG(yr)	Indicates whether the student was engaged in undergraduate study in this year.	27-28
AFRPGT(yr)	Indicates whether the student was engaged in postgraduate taught study in this year.	29-30
AFRPGR(yr)	Indicates whether the student was engaged in postgraduate research study in this year.	31-32
AFRFYE(yr)	The provider's year-end date for the financial year.	33-34
AFRENGSTARTDATE	Engagement start date, or if there is a preparatory course and student is now in the main course, the session start date following the preparatory course.	35
AFRCOUNTRY(yr)	Country of permanent home address.	36-37

Table 3: Description of derived fields for recreating tables

⁸ See <u>Regulatory advice 14: Guidance for providers for the Annual Financial Return - Office for Students</u>.

Derived fields for calculating higher education FTE

SOURCE

14. This field contains the reporting period of the student collection that the instance/engagement was returned. For example, for records returned in the 2024-25 academic year student collection (24056), SOURCE = 2024-25.

AFRDOMICILE(yr)

15. This field allocates students to a domicile for each academic year.

16. (yr) values include 2022, 2023, 2024 and 2025.

Table 4: AFRDOMICILE definition

Value	Description	Definition
UK	UK-domiciled students	Z_PERMADDGRP5 = 01, 02, 03, 04, 07
Non-UK	Non-UK-domiciled students	Z_PERMADDGRP5 = 05, 06, 08, 09, 10, 11, 12, 13, 14, 15
Blank	Otherwise	Otherwise

AFRMODE(yr)

17. This field allocates students to a mode of study for each academic year.

18. (yr) values include 2022, 2023, 2024 and 2025.

Table 5: AFRMODE definition

Value	Description	Definition
FTS	Full-time	Z_MODEGRP1 = 01
PT	Part-time	Z_MODEGRP1 = 02
Blank	Otherwise	Otherwise

AFRLEVEL(yr)

19. This field allocates students to a level of study for each academic year.

20. (yr) values include 2022, 2023, 2024 and 2025.

Table 6: AFRLEVEL definition

Value	Description	Definition
UG	Undergraduate	Z_LEVELGRP2 = 03, 04
PGCE	PGCE	Z_LEVELGRP2 = 02 and QUALCAT = M0016
PGT	Postgraduate taught (excluding PGCE)	Z_LEVELGRP2 = 02 and QUALCAT ≠ M0016
PGR	Postgraduate research	Z_LEVELGRP2 = 01
Blank	Otherwise	Otherwise

AFRPOP(yr)

- 21. This field identifies if a student is counted within the AFR population for each academic year and determines whether to count AFRFTE for an engagement/instance. A student is counted in the AFR population if they are included in the session population during the cycle.
- 22. (yr) values include 2022, 2023, 2024 and 2025.

Table 7: AFRPOP definition

Value	Description	Definition
1	Included	Z_POPSES_CYC = 1
0	Not included	Z_POPSES_CYC = 0

AFRFTE(yr)

- 23. This field contains the total student load for an engagement in each academic year.
- 24. (yr) values include 2022, 2023, 2024 and 2025.

Table 8: AFRFTE definition

Value	Definition
Z_STULOAD_CYC/100	Z_STULOAD_CYC is not null
0	Otherwise

AFRENTRANT(yr)

- 25. This field identifies students who were entrants in each academic year.
- 26. (yr) values include 2024 and 2025.

Table 9: AFRENTRANT definition

Value	Description	Definition
1	Has not been active at the same broad level at the registering provider in either of the two previous academic years, linked by UKPRN and SID	$\label{eq:AFRENGSTARTDATE} > AFRFYE(yr - 1) \\ and (\\ (AFRLEVEL(yr) = UG \\ and AFRUG(yr - 1) = 0 \\ and AFRUG(yr - 2) = 0) \\ or (AFRLEVEL(yr) = PGT, PGCE \\ and AFRPGT(yr - 1) = 0 \\ and AFRPGT(yr - 2) = 0) \\ or (AFRLEVEL(yr) = PGR \\ and AFRPGR(yr - 1) = 0 \\ and AFRPGR(yr - 2) = 0) \\) \\ \end{cases}$
0	Otherwise	Otherwise

AFRUG(yr)

- 27. This field indicates whether the student (SID/HUSID) was engaged in undergraduate taught study in the academic year ending in (yr). This is done using AFRLEVEL(yr).
- 28. (yr) values include 2022, 2023, 2024 and 2025.

AFRPGT(yr)

- 29. This field indicates whether the student (SID/HUSID) was engaged in postgraduate taught study in the academic year ending in (yr). This is done using AFRLEVEL(yr).
- 30. (yr) values include 2022, 2023, 2024 and 2025.

AFRPGR(yr)

- 31. This field indicates whether the student (SID/HUSID) was engaged in postgraduate research study in the academic year ending in (yr). This is done using AFRLEVEL(yr).
- 32. (yr) values include 2022, 2023, 2024 and 2025.

AFRFYE(yr)

- 33. These fields contain each of the provider's financial year end dates.
- 34. (yr) values include 2024 and 2025.

AFRENGSTARTDATE

35. This field contains the engagement's start date (ENGSTARTDATE) unless the engagement began with a preparatory course. In this case it contains the student course session start date (SCSSTARTDATE) of the following student course session (SCS), which is assumed to be the main course.

Table 10: AFRENGSTARTDATE definition

Value	Description	Definition
SCSSTARTDATE of the first SCS that starts after the preparatory course	Engagement began with a preparatory course and is now in the main course	An SCS exists where PREPFLAG = BLANK alongside another earlier SCS for this combination of SID and NUMHUS. The earlier SCS is their first SCS of the engagement and it is a preparatory course (where PREPFLAG = 01, 02, 03 and ENGSTARTDATE = SCSSTARTDATE)
ENGSTARTDATE	Otherwise	Otherwise

AFRCOUNTRY(yr)

36. This field allocates students to a country of their permanent home address.

37. (yr) values include 2022, 2023, 2024 and 2025.

Table 11: AFRCOUNTRY definition

Value	Description	Definition
UK	Permanent home address country of UK	Z_PERMADDGRP5 = 01, 02, 03, 04, 07
China	Permanent home address country of China	Z_PERMADDCOUNTRY = CN
India	Permanent home address country of India	Z_PERMADDCOUNTRY = IN
Nigeria	Permanent home address country of Nigeria	Z_PERMADDCOUNTRY = NG
Pakistan	Permanent home address country of Pakistan	Z_PERMADDCOUNTRY = PK
USA	Permanent home address country of USA	Z_PERMADDCOUNTRY = US
Other Domiciles	Permanent home address in another country	Z_PERMADDGRP5 ≠ Z9 and not above
Blank	Otherwise	Otherwise

Rebuild instructions

- 38. The individualised file, 'AFR25_DCT_XXXXXXX_IND.csv', can be used to interrogate the data and our calculation of derived fields by filtering to certain groups of records.
- 39. Specific instructions to rebuild the AFR25 DCT workbook, 'AFR25_DCT_XXXXXXXX.xlsx', are provided here. Full details of how to access and use an individualised file are given on the OfS website: Working with individualised files Office for Students.
- 40. If using Microsoft Excel, filters can be used on the relevant columns in the spreadsheet to filter the records to those required for each definition. The SUBTOTAL function can then be used with option 9 to give the sum of FTE.
- 41. Note that if you are trying to rebuild the figures from your provider's data, you will need to combine multiple years of data to derive entrant information. For the DCT outputs, this has been done in advance using data held by the OfS.

Rebuild instructions for Table 7 FTEs

42. Table 12 describes the steps involved in rebuilding the student FTEs in the Table 7 FTEs worksheet in the AFR25 DCT workbook.

Step	Description	Value	Rebuild instructions
1	Select the year	Year 1 (yr = 2024)	AFRPOP2024 = 1
		Year 2 (yr = 2025)	AFRPOP2025 = 1
2	Select the domicile	UK	AFRDOMICILE(yr) = "UK"
		Non-UK	AFRDOMICILE(yr) = "Non-UK"
3	Select the cohort	Entrants	AFRENTRANT(yr) = 1
		Continuing	AFRENTRANT(yr) = 0
4	Select the mode of study	Full-time	AFRMODE(yr) = "FTS"
		Part-time	AFRMODE(yr) = "PT"
5	Select the level of study	Undergraduate	AFRLEVEL(yr) = "UG"
		Postgraduate taught	AFRLEVEL(yr) = "PGT", "PGCE"
		Postgraduate taught (excluding PGCE)	AFRLEVEL(yr) = "PGT"
		PGCE	AFRLEVEL(yr) = "PGCE"
		Postgraduate research	AFRLEVEL(yr) = "PGR"
6	Calculate the sum of FTE		Sum of AFRFTE(yr)

Table 12: Rebuild instructions for Table 7 FTEs

Rebuild instructions for Table 7a FTEs

43. Table 13 describes the steps involved in rebuilding the student FTEs in the Table 7a FTEs worksheet in the AFR25 DCT workbook.

Table 13: Rebuild instructions for Table 7a FTEs

Step	Description	Value	Rebuild instructions
1	Select the year	Year 2 (yr = 2025)	AFRPOP2025 = 1
2	Select the domicile	Non-UK	AFRDOMICILE(yr) = "Non-UK"
3	Select the cohort	Entrants	AFRENTRANT(yr) = 1
4	Select the country of domicile	China	AFRCOUNTRY(yr) = "China"
		India	AFRCOUNTRY(yr) = "India"
		Nigeria	AFRCOUNTRY(yr) = "Nigeria"
		Pakistan	AFRCOUNTRY(yr) = "Pakistan"
		USA	AFRCOUNTRY(yr) = "USA"
		Other domiciles	AFRCOUNTRY(yr) = "Other Domiciles"
5	Select the mode of study	Full-time	AFRMODE(yr) = "FTS"
		Part-time	AFRMODE(yr) = "PT"
6	Select the level of study	Undergraduate	AFRLEVEL(yr) = "UG"
		Postgraduate taught	AFRLEVEL(yr) = "PGT", "PGCE"
		Postgraduate taught (excluding PGCE)	AFRLEVEL(yr) = "PGT"
		PGCE	AFRLEVEL(yr) = "PGCE"
		Postgraduate research	AFRLEVEL(yr) = "PGR"
7	Calculate the sum of FTE		Sum of AFRFTE(yr)



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