



EUROPEAN COMMISSION
EUROSTAT

Directorate F: Social statistics
Unit F-3: Labour market and lifelong learning

2022 AES manual

Annexes Version 1.3.1

26 June 2023

Annex 1 – Code book 2022 AES

Coding rules

- decimal separator is dot
- if filter is true, variable cannot have value '-2'; if filter is false, variable must have value '-2'

Validation program

To use the validation program embedded in EDAMIS, the following conditions must be fulfilled:

1. all and only variables must be in the file;
2. the variables must be sorted in the predefined order, which is the order of the code book and separated with semicolon;
3. the name of the variables must be written in capital letters.

The validation program will not accept values that are longer and/or different from those that are defined in the code book.

The checking rules are available in [CIRCABC](#), together with explanations and a dummy file describing the file structure.

Variable name	Format	Code	Description	Filter
COUNTRY	char(2)		COUNTRY OF RESIDENCE	
		2 digits	See annex 6: country and region codes	
REGION	char(4)		REGION OF RESIDENCE	
		4 digits	See annex 6: country and region codes	
DEG_URB	num(1)		DEGREE OF URBANISATION	
		1	Cities	
		2	Towns and suburbs	
		3	Rural areas	
REFYEAR	num(4)		YEAR OF INTERVIEW	
		2022, 2023	The 4 digits of the year in which the interview took place	
REFMONTH	num(2)		MONTH OF INTERVIEW	
		01-12	Number of the month in which the interview took place (2 digits)	
REFDAY	num(2)		DAY OF INTERVIEW	
		01-31	Number of the day in which the interview took place (2 digits)	
RESPID	num(6)		UNIQUE IDENTIFIER	
		numeric	Identification code of each record	
RESPWEIGHT	num(9.3)		WEIGHTING FACTOR FOR INDIVIDUALS	
		numeric (3 decimals)	Weighting factor for individuals (with 3 digits of decimals separated by a dot)	
NFEACTWEIGHT_5	num(9.3)		WEIGHTING FACTOR FOR THE DETAILS OF 5 NON-FORMAL LEARNING ACTIVITIES	NFENUM ≥ 1
		numeric (3 decimals)	Weighting factor for the 5 non-formal learning activities for which some details are asked (with 3 digits of decimals separated by a dot)	
		0	NFENUM = 0	
NFEACTWEIGHT_2	num(9.3)		WEIGHTING FACTOR FOR THE 2 RANDOMLY-SELECTED NON-FORMAL LEARNING ACTIVITIES	NFENUM ≥ 1
		numeric (3 decimals)	Weighting factor for the non-formal learning activities selected in NFERAND1 and NFERAND2 (with 3 digits of decimals separated by a dot)	
		0	NFENUM = 0	
INTMETHOD	num(1)		INTERVIEWING MODE USED	
		1	Paper assisted personal interview (PAPI)	
		2	Computer assisted personal interview (CAPI)	

Variable name	Format	Code	Description	Filter
		3	Computer assisted telephone interview (CATI)	
		4	Computer assisted web-interview (CAWI)	
		5	Other	
INTPART	num(2)		NATURE OF PARTICIPATION IN THE SURVEY	
		1	Direct participation	
		2	Indirect participation	
		-1	Not stated	
			HOUSEHOLD SIZE	
HHNBPERS_tot	num(2)		TOTAL NUMBER OF MEMBERS OF THE HOUSEHOLD (INCLUDING THE RESPONDENT)	
		1-98	Number	
		-1	Not stated	
HHNBPERS_0_13	num(2)		0-13 YEARS OLD MEMBERS OF THE HOUSEHOLD	
		0-98	Number	
		-1	Not stated	
HHNBPERS_14_24	num(2)		14-24 YEARS OLD MEMBERS OF THE HOUSEHOLD (INCLUDING THE RESPONDENT)	
		0-98	Number	
		-1	Not stated	
HHNBPERS_25plus	num(2)		MEMBERS OF THE HOUSEHOLD 25 YEARS OLD AND OLDER (INCLUDING THE RESPONDENT)	
		0-98	Number	
		-1	Not stated	
HHTYPE	num(2)		HOUSEHOLD TYPE	
		1	One-person household	
		2	Lone parent with at least one child aged less than 25	
		3	Lone parent with all children aged 25 or more	
		4	Couple without any child or children	
		5	Couple with at least one child aged less than 25	
		6	Couple with all children aged 25 or more	
		7	Other type of household	
		-1	Not stated	
HHINCOME	num(2)		NET CURRENT MONTHLY HOUSEHOLD INCOME	
		1	Lower equivalised net current monthly income group	
		2	Low to medium equivalised net current monthly income group	

Variable name	Format	Code	Description	Filter
		3	Medium equivalised net current monthly income group	
		4	Medium to high equivalised net current monthly income group	
		5	Higher equivalised net current monthly income group	
		-1	Not stated	
SEX	num(1)		SEX	
		1	Male	
		2	Female	
BIRTHYEAR	num(4)		YEAR OF BIRTH	
		1953-2005	Year of birth (4 digits)	
BIRTHPASS	num(1)		PASSING OF BIRTHDAY	
		1	Yes	
		2	No	
AGE	num(2)		AGE IN COMPLETED YEARS	
		18-69	Age in completed years	
CITIZEN	char(4)		COUNTRY OF MAIN CITIZENSHIP	
		2 digits	Country of main citizenship (SCL GEO alpha-2 code); see annex 6	
		STLS	Stateless	
		FOR	Foreign citizenship but country unknown	
		RNC	Recognised non-citizens	
		-1	Not stated	
BIRTHPLACE	char(3)		COUNTRY OF BIRTH	
		2 digits	Country of birth (SCL GEO alpha-2 code); see annex 6	
		FOR	Foreign-born but country of birth unknown	
		-1	Not stated	
RESTIME	num(2)		DURATION OF STAY IN THE COUNTRY OF RESIDENCE IN COMPLETED YEARS	
		99	Born in this country and never lived abroad for a period of at least 1 year	
		00	Less than 1 year in the country but intention to stay at least 1 year in total	
		01-69	Number of years in this country (since last establishing the place of usual residence in this country)	
		-1	Not stated	
MARSTADEFACTO	num(2)		PARTNERS LIVING IN THE SAME HOUSEHOLD	
		1	Person living with a legal or de facto partner	
		2	Person not living with a legal or de facto partner	
		-1	Not stated	

Variable name	Format	Code	Description	Filter
HATLEVEL	num(3)		EDUCATIONAL ATTAINMENT LEVEL (highest level of education successfully completed)	
		000	No formal education or below ISCED 1	
		100	ISCED 1 Primary education	
		200	ISCED 2 Lower secondary education	
		342	ISCED 3 Upper secondary education (general) – partial level completion, without direct access to tertiary education	
		343	ISCED 3 Upper secondary education (general) – level completion, without direct access to tertiary education	
		344	ISCED 3 Upper secondary education (general) – level completion, with direct access to tertiary education	
		349	ISCED 3 Upper secondary education (general) – without possible distinction of access to tertiary education	
		352	ISCED 3 Upper secondary education (vocational) – partial level completion, without direct access to tertiary education	
		353	ISCED 3 Upper secondary education (vocational) – level completion, without direct access to tertiary education	
		354	ISCED 3 Upper secondary education (vocational) – level completion, with direct access to tertiary education	
		359	ISCED 3 Upper secondary education (vocational) – without possible distinction of access to tertiary education	
		392	ISCED 3 Upper secondary education (orientation unknown) – partial level completion, without direct access to tertiary education	
		393	ISCED 3 Upper secondary education (orientation unknown) – level completion, without direct access to tertiary education	
		394	ISCED 3 Upper secondary education (orientation unknown) – level completion, with direct access to tertiary education	
		399	ISCED 3 Upper secondary education (orientation unknown) – without possible distinction of access to tertiary education	
		440	ISCED 4 Post-secondary non-tertiary education – general	
		450	ISCED 4 Post-secondary non-tertiary education – vocational	
		490	ISCED 4 Post-secondary non-tertiary education – orientation unknown	
		540	ISCED 5 Short-cycle tertiary education – general	

Variable name	Format	Code	Description	Filter
		550	ISCED 5 Short-cycle tertiary education – vocational	
		590	ISCED 5 Short-cycle tertiary education – orientation unknown	
		600	ISCED 6 Bachelor's or equivalent level	
		700	ISCED 7 Master's or equivalent level	
		800	ISCED 8 Doctoral or equivalent level	
		-1	Not stated	
HATFIELD	num(2)		FIELD OF THE HIGHEST LEVEL OF EDUCATION SUCCESSFULLY COMPLETED	HATLEVEL = 342-800
		00	Generic programmes and qualifications	
		01	Education	
		02	Arts and humanities	
		03	Social sciences, journalism and information	
		04	Business, administration and law	
		05	Natural sciences, mathematics and statistics	
		06	Information and Communication technologies (ICTs)	
		07	Engineering, manufacturing and construction	
		08	Agriculture, forestry, fisheries and veterinary	
		09	Health and welfare	
		10	Services	
		-1	Not stated	
		-2	Not applicable	
HATYEAR	num(4)		YEAR WHEN THE HIGHEST LEVEL OF EDUCATION WAS SUCCESSFULLY COMPLETED	HATLEVEL = 100-800
		1963-2023	Year when the highest level of education was successfully completed (4 digits)	
		-1	Not stated	
		-2	Not applicable	
DROPEduc	num(2)		FORMAL EDUCATION OR TRAINING ABANDONED	
		1	Yes, one	
		2	Yes, several	
		3	No	
		-1	Not stated	
DROPEducLEVEL	num(2)		LEVEL OF THE FORMAL EDUCATION OR TRAINING ABANDONED	DROPEduc = 1 or 2
		10	ISCED 1 Primary education	
		20	ISCED 2 Lower secondary education	
		34	ISCED 3 Upper secondary education – general	
		35	ISCED 3 Upper secondary education – vocational	

Variable name	Format	Code	Description	Filter
		39	ISCED 3 Upper secondary education – orientation unknown	
		44	ISCED 4 Post-secondary non-tertiary education – general	
		45	ISCED 4 Post-secondary non-tertiary education – vocational	
		49	ISCED 4 Post-secondary non-tertiary education – orientation unknown	
		54	ISCED 5 Short-cycle tertiary education – general	
		55	ISCED 5 Short-cycle tertiary education – vocational	
		59	ISCED 5 Short-cycle tertiary education – orientation unknown	
		60	ISCED 6 Bachelor's or equivalent level	
		70	ISCED 7 Master's or equivalent level	
		80	ISCED 8 Doctoral or equivalent level	
		-1	Not stated	
		-2	Not applicable	
MAINSTAT	num(2)		MAIN ACTIVITY STATUS (SELF-DEFINED)	
		10	Employed	
		20	Unemployed	
		32	Retired	
		33	Unable to work due to long-standing health problems	
		31	Student, pupil	
		35	Fulfilling domestic tasks	
		34	Compulsory military or civilian service	
		36	Other	
		-1	Not stated	
EMP12M	num(2)		EMPLOYMENT AT ANY POINT IN TIME DURING THE LAST 12 MONTHS	MAINSTAT = 20-36
		1	Yes	
		2	No	
		-1	Not stated	
		-2	Not applicable	
FTPT	num(2)		FULL- OR PART-TIME MAIN JOB (SELF-DEFINED)	MAINSTAT = 10
		1	Full-time job	
		2	Part-time job	
		-1	Not stated	
		-2	Not applicable	
JOBSTAT	num(2)		STATUS IN EMPLOYMENT IN MAIN JOB	MAINSTAT = 10
		11	Self-employed person with employees	
		12	Self-employed person without employees	
		20	Employee	
		30	Family worker (unpaid)	
		-1	Not stated	
		-2	Not applicable	

Variable name	Format	Code	Description	Filter
PERMJOB	num(2)		PERMANENCY OF MAIN JOB	JOBSTAT = 20
		1	Fixed-term contract	
		2	Permanent job	
		-1	Not stated	
		-2	Not applicable	
JOBISCO	char(4)		OCCUPATION IN MAIN JOB	MAINSTAT = 10
		4 digits	ISCO-08 coded at 2-digit level (i.e. a 4-digit code – OC00), see annex 8	
		-1	Not stated	
		-2	Not applicable	
LOCNACE	char(3)		ECONOMIC ACTIVITY OF THE LOCAL UNIT FOR MAIN JOB	MAINSTAT = 10
		3 digits	NACE Rev. 2 coded at 2-digit level (i.e. a 3-digit code – X00), see annex 7	
		-1	Not stated	
		-2	Not applicable	
LOCSIZEFIRM	num(2)		SIZE OF THE LOCAL UNIT FOR MAIN JOB	MAINSTAT = 10
		1-9	Exact number of persons, if between 1 and 9	
		10	10 to 19 persons	
		11	20 to 49 persons	
		12	50 to 249 persons	
		13	250 persons or more	
		14	Do not know but less than 10 persons	
		15	Do not know but 10 persons or more	
		-1	Not stated	
		-2	Not applicable	
JOBTIME	num(4)		YEAR IN WHICH THE PERSON STARTED WORKING FOR CURRENT EMPLOYER OR AS SELF-EMPLOYED IN MAIN JOB	MAINSTAT = 10
		1968-2023	Year (4 digits)	
		-1	Not stated	
		-2	Not applicable	
HATFATHER	num(2)		EDUCATIONAL ATTAINMENT LEVEL OF THE FATHER OF THE RESPONDENT	
		1	At most lower secondary	
		2	Upper secondary	
		3	Tertiary	
		-1	Not stated	
		-2	Not applicable (father unknown)	
HATMOTHER	num(2)		EDUCATIONAL ATTAINMENT LEVEL OF THE MOTHER OF THE RESPONDENT	
		1	At most lower secondary	
		2	Upper secondary	
		3	Tertiary	
		-1	Not stated	

Variable name	Format	Code	Description	Filter
		-2	Not applicable (mother unknown)	
BIRTHFATHER	char(3)		COUNTRY OF BIRTH OF THE FATHER	
		2 digits	Country of birth of the father (SCL GEO code); see annex 6	
		FOR	Father foreign-born but country of birth of the father unknown	
		-1	Not stated	
		-2	Not applicable (father unknown)	
BIRTHMOTHER	char(3)		COUNTRY OF BIRTH OF THE MOTHER	
		2 digits	Country of birth of the mother (SCL GEO code); see annex 6	
		FOR	Mother foreign-born but country of birth of the mother unknown	
		-1	Not stated	
		-2	Not applicable (mother unknown)	
SEEKINFO	num(2)		LOOKED FOR ANY INFORMATION CONCERNING LEARNING POSSIBILITIES IN THE LAST 12 MONTHS (formal and non-formal education and training)	
		1	Yes	
		2	No	
		-1	Not stated	
GUIDE_1	num(2)		COUNSELLING/ADVICE ON LEARNING POSSIBILITIES (INCLUDING SUPPORT TO SEARCH FOR INFORMATION AND APPLYING TO LEARNING POSSIBILITIES)	
		1	Selected	
		2	Not selected	
		-1	Not stated	
GUIDE_2	num(2)		SCREENING/EVALUATION OF INDIVIDUAL LEARNING NEEDS BASED ON PROFESSIONAL TESTS AND/OR INTERVIEWS	
			<i>same codes as GUIDE_1</i>	
GUIDE_3	num(2)		ADVICE/HELP ON PROCEDURE FOR VALIDATION/RECOGNITION OF SKILLS, COMPETENCES OR PRIOR LEARNING	
			<i>same codes as GUIDE_1</i>	
GUIDE	num(2)		GUIDANCE ON LEARNING RECEIVED FROM INSTITUTIONS/ORGANISATIONS DURING THE LAST 12 MONTHS	
		0	None of the items above	

Variable name	Format	Code	Description	Filter
		1	At least one of the items above (GUIDE_1 to GUIDE_3) selected	
		-1	Not stated	
GUIDESOURCE_1	num(2)		EDUCATION OR TRAINING INSTITUTIONS (SCHOOL, COLLEGE, UNIVERSITY, VOCATIONAL EDUCATION AND TRAINING (VET) CENTRE, INSTITUTION FOR ADULT LEARNING, VALIDATION CENTRE, ETC.)	GUIDE = 1
		1	Selected	
		2	Not selected	
		-1	Not stated	
		-2	Not applicable	
GUIDESOURCE_2	num(2)		PUBLIC EMPLOYMENT SERVICES	GUIDE = 1
			<i>same codes as GUIDESOURCE_1</i>	
GUIDESOURCE_3	num(2)		EMPLOYER OR PROSPECTIVE EMPLOYER	GUIDE = 1
			<i>same codes as GUIDESOURCE_1</i>	
GUIDESOURCE_4	num(2)		OTHER INSTITUTIONS/ORGANISATIONS	GUIDE = 1
			<i>same codes as GUIDESOURCE_1</i>	
GUIDESOURCE	num(2)		SOURCE OF GUIDANCE ON LEARNING RECEIVED DURING THE LAST 12 MONTHS	GUIDE = 1
		1	At least one of the items above (GUIDESOURCE_1 to GUIDESOURCE_4) selected	
		-1	Not stated	
		-2	Not applicable	
GUIDEINTER_1	num(2)		INTERACTION WITH A PERSON: FACE TO FACE, SKYPE, PHONE, E-MAIL, DEDICATED WEBSITES ETC.	GUIDE = 1
		1	Selected	
		2	Not selected	
		-1	Not stated	
		-2	Not applicable	
GUIDEINTER_2	num(2)		INTERACTION WITHOUT A PERSON: BOTS/WEB ROBOTS, ONLINE AUTOMATIC APPLICATIONS AS LONG AS THEY PROVIDE FOR INTERACTION	GUIDE = 1
			<i>same codes as GUIDEINTER_1</i>	

Variable name	Format	Code	Description	Filter
GUIDEINTER	num(2)		TYPE OF INTERACTION USED FOR GUIDANCE ON LEARNING RECEIVED DURING THE LAST 12 MONTHS	GUIDE = 1
		1	At least one of the items above (GUIDEINTER_1 to GUIDEINTER_2) selected	
		-1	Not stated	
		-2	Not applicable	
FED	num(1)		PARTICIPATION IN FORMAL EDUCATION AND TRAINING (STUDENT OR APPRENTICE) DURING THE LAST 12 MONTHS	
		1	Yes	
		2	No	
FEDNUM	num(2)		NUMBER OF FORMAL EDUCATION OR TRAINING ACTIVITIES	FED = 1
		0	None (FED = 2)	
		1-99	Number of activities	
FEDSTARTYEAR	num(4)		STARTING YEAR OF THE MOST RECENT FORMAL EDUCATION ACTIVITY	FEDNUM ≥ 1
		2000-2023 ¹	The 4 digits of the year when the most recent formal education or training activity started	
		-1	Not stated	
		-2	Not applicable	
FEDSTARTMONTH	num(2)		STARTING MONTH OF THE MOST RECENT FORMAL EDUCATION ACTIVITY	FEDNUM ≥ 1
		01-12	Number of the month (2 digits)	
		-1	Not stated	
		-2	Not applicable	
FEDMAINSTAT	num(2)		MAIN ACTIVITY STATUS (SELF-DEFINED) AT THE START OF THE MOST RECENT FORMAL EDUCATION ACTIVITY	FEDNUM ≥ 1
		1	Employed	
		2	Unemployed	
		3	Outside the labour market	
		-1	Not stated	
		-2	Not applicable	
FEDLEVEL	num(2)		LEVEL OF THE MOST RECENT FORMAL EDUCATION OR TRAINING ACTIVITY	FEDNUM ≥ 1
		10	ISCED 1 Primary education	
		20	ISCED 2 Lower secondary education	
		34	ISCED 3 Upper secondary education – general	

¹ 2000 <= FEDSTARTYEAR <= 2016 will be cross-checked during validation and should be confirmed by countries.

Variable name	Format	Code	Description	Filter
		35	ISCED 3 Upper secondary education – vocational	
		39	ISCED 3 Upper secondary education – orientation unknown	
		44	ISCED 4 Post-secondary non-tertiary education – general	
		45	ISCED 4 Post-secondary non-tertiary education – vocational	
		49	ISCED 4 Post-secondary non-tertiary education – orientation unknown	
		54	ISCED 5 Short-cycle tertiary education – general	
		55	ISCED 5 Short-cycle tertiary education – vocational	
		59	ISCED 5 Short-cycle tertiary education – orientation unknown	
		60	ISCED 6 Bachelor's or equivalent level	
		70	ISCED 7 Master's or equivalent level	
		80	ISCED 8 Doctoral or equivalent level	
		-1	Not stated	
		-2	Not applicable	
FEDCOMP	num(2)		COMPLETION OF THE MOST RECENT FORMAL EDUCATION ACTIVITY	$FEDNUM \geq 1$
		1	No, dropped out before the expected end	
		2	No, it is still ongoing	
		3	Yes, completed	
		-1	Not stated	
		-2	Not applicable	
FEDFIELD	num(2)		FIELD OF THE MOST RECENT FORMAL EDUCATION ACTIVITY	$FEDLEVEL = 34-80$
		1	Generic programmes and qualifications	
		2	Education	
		3	Arts	
		4	Humanities	
		5	Language acquisition	
		6	Literature and linguistics	
		7	Social and behavioural sciences	
		8	Journalism and information	
		9	Business and administration	
		10	Law	
		11	Natural sciences, mathematics and statistics	
		12	Computer use	
		13	Database and network design and administration; software and applications development and analysis	
		14	Engineering and engineering trades, manufacturing and processing	
		15	Architecture and construction	
		16	Agriculture, forestry, fisheries and veterinary	
		17	Health	

Variable name	Format	Code	Description	Filter
		18	Welfare	
		19	Personal services, hygiene and occupational health services	
		20	Security services, transport services	
		-1	Not stated	
		-2	Not applicable	
FEDPLACE	num(2)		PLACE OF INSTRUCTION OF THE MOST RECENT FORMAL EDUCATION ACTIVITY	FEDNUM ≥ 1
		1	Completely online	
		2	Mostly online	
		3	Mostly on-site	
		4	Completely on-site	
		-1	Not stated	
		-2	Not applicable	
FEDONMAT	num(2)		ONLINE PROVISION OF TEACHING MATERIALS FOR THE MOST RECENT FORMAL EDUCATION ACTIVITY	FEDNUM ≥ 1
		1	Frequently	
		2	Sometimes	
		3	Never	
		-1	Not stated	
		-2	Not applicable	
FEDONTEA	num(2)		ONLINE INTERACTION WITH TEACHING STAFF FOR THE MOST RECENT FORMAL EDUCATION ACTIVITY	FEDNUM ≥ 1
		1	Frequently	
		2	Sometimes	
		3	Never	
		-1	Not stated	
		-2	Not applicable	
FEDONPAR	num(2)		ONLINE INTERACTION WITH OTHER PARTICIPANTS FOR THE MOST RECENT FORMAL EDUCATION ACTIVITY	FEDNUM ≥ 1
		1	Frequently	
		2	Sometimes	
		3	Never	
		-1	Not stated	
		-2	Not applicable	
FEDREASON_01a	num(2)		TO DO MY JOB BETTER	FEDNUM ≥ 1
		1	Selected	
		2	Not selected	
		-1	Not stated	
		-2	Not applicable	
FEDREASON_01b	num(2)		TO IMPROVE MY CAREER PROSPECTS	FEDNUM ≥ 1
			<i>same codes as FEDREASON_01a</i>	

Variable name	Format	Code	Description	Filter
FEDREASON_02	num(2)		TO BE LESS LIKELY TO LOSE MY JOB	FEDNUM ≥ 1
			<i>same codes as FEDREASON_01a</i>	
FEDREASON_03	num(2)		TO INCREASE MY POSSIBILITIES OF GETTING A JOB, OR CHANGING A JOB/PROFESSION	FEDNUM ≥ 1
			<i>same codes as FEDREASON_01a</i>	
FEDREASON_04	num(2)		TO START MY OWN BUSINESS	FEDNUM ≥ 1
			<i>same codes as FEDREASON_01a</i>	
FEDREASON_05	num(2)		I WAS OBLIGED TO PARTICIPATE	FEDNUM ≥ 1
			<i>same codes as FEDREASON_01a</i>	
FEDREASON_06_7	num(2)		TO INCREASE MY KNOWLEDGE/SKILLS FOR MY OWN GENERAL INTEREST AND CURIOSITY	FEDNUM ≥ 1
			<i>same codes as FEDREASON_01a</i>	
FEDREASON_08	num(2)		TO OBTAIN A CERTIFICATE	FEDNUM ≥ 1
			<i>same codes as FEDREASON_01a</i>	
FEDREASON_09	num(2)		TO MEET NEW PEOPLE/FOR FUN	FEDNUM ≥ 1
			<i>same codes as FEDREASON_01a</i>	
FEDREASON	num(2)		REASONS FOR PARTICIPATING IN THE MOST RECENT FORMAL EDUCATION ACTIVITY	FEDNUM ≥ 1
		0	None of the items above	
		1	At least one of the items above (FEDREASON_01a to FEDREASON_09) selected	
		-1	Not stated	
		-2	Not applicable	
FEDREASONMAIN	char(4)		MAIN REASON FOR PARTICIPATING IN THE MOST RECENT FORMAL EDUCATION ACTIVITY	FEDREASON = 1
		4 digits	Code of the reason from 01a to 09 as in variable FEDREASON	
		-1	Not stated	
		-2	Not applicable	
FEDWORKTIME	num(2)		MOST RECENT FORMAL EDUCATION ACTIVITY DURING PAID WORKING HOURS	FEDNUM ≥ 1
		1	Only during paid working hours	
		2	Mostly during paid working hours	
		3	Mostly outside paid working hours	
		4	Only outside paid working hours	

Variable name	Format	Code	Description	Filter
		5	Not working at that time	FEDMAINSTAT \neq 1 ²
		-1	Not stated	
		-2	Not applicable	
FEDNBHOURS	num(4)		NUMBER OF INSTRUCTION HOURS OF THE MOST RECENT FORMAL EDUCATION ACTIVITY	FEDNUM \geq 1
		4 digits	Total number of instruction hours	
		-1	Not stated	
		-2	Not applicable	
FEDPAID	num(2)		PAYMENT FOR THE MOST RECENT FORMAL EDUCATION ACTIVITY	FEDNUM \geq 1
		1	Fully paid by yourself	
		2	Partly paid by yourself and partly by somebody else	
		3	Fully paid by somebody else	
		4	Free activity	
		-1	Not stated	
		-2	Not applicable	
FEDPAIDBY_1	num(2)		EMPLOYER OR PROSPECTIVE EMPLOYER	FEDPAID = 2 or 3
		1	Selected	
		2	Not selected	
		-1	Not stated	
		-2	Not applicable	
FEDPAIDBY_2	num(2)		PUBLIC EMPLOYMENT SERVICES	FEDPAID = 2 or 3
			<i>same codes as FEDPAIDBY_1</i>	
FEDPAIDBY_3	num(2)		OTHER PUBLIC OR PRIVATE INSTITUTIONS	FEDPAID = 2 or 3
			<i>same codes as FEDPAIDBY_1</i>	
FEDPAIDBY_4	num(2)		A HOUSEHOLD MEMBER OR A RELATIVE	FEDPAID = 2 or 3
			<i>same codes as FEDPAIDBY_1</i>	
FEDPAIDBY	num(2)		SOURCE OF FUNDING OF PARTIAL OR FULL PAYMENT FOR THE MOST RECENT FORMAL EDUCATION ACTIVITY	FEDPAID = 2 or 3
		0	None of the items above	
		1	At least one of the items above (FEDPAIDBY_1 to FEDPAIDBY_4) selected	
		-1	Not stated	
		-2	Not applicable	

² Due to different reference periods, this filter is not necessarily correct and therefore only considered for a warning message in the validation rules.

Variable name	Format	Code	Description	Filter
FEDUSEA	num(2)		CURRENT USE OF SKILLS OR KNOWLEDGE FROM THE MOST RECENT FORMAL EDUCATION ACTIVITY	FEDNUM ≥ 1
		1	A lot	
		2	A fair amount	
		3	Very little	
		4	Not at all	
		-1	Not stated	
		-2	Not applicable	
FEDOUTCOME_1	num(2)		GETTING A (NEW) JOB	FEDNUM ≥ 1
		1	Selected	
		2	Not selected	
		-1	Not stated	
		-2	Not applicable	
FEDOUTCOME_3	num(2)		HIGHER SALARY/WAGES	FEDNUM ≥ 1
			<i>same codes as FEDOUTCOME_1</i>	
FEDOUTCOME_2	num(2)		PROMOTION IN THE JOB	FEDNUM ≥ 1
			<i>same codes as FEDOUTCOME_1</i>	
FEDOUTCOME_4	num(2)		NEW TASKS	FEDNUM ≥ 1
			<i>same codes as FEDOUTCOME_1</i>	
FEDOUTCOME_5	num(2)		BETTER PERFORMANCE IN PRESENT JOB	FEDNUM ≥ 1
			<i>same codes as FEDOUTCOME_1</i>	
FEDOUTCOME_6	num(2)		PERSONAL BENEFITS (MEET OTHER PEOPLE, REFRESH OR ACQUIRE SKILLS ON GENERAL OR SPECIFIC SUBJECTS, ETC.)	FEDNUM ≥ 1
			<i>same codes as FEDOUTCOME_1</i>	
FEDOUTCOME_7	num(2)		NO OUTCOME YET	FEDNUM ≥ 1
			<i>same codes as FEDOUTCOME_1</i>	
FEDOUTCOME	num(2)		OUTCOMES OF THE MOST RECENT FORMAL EDUCATION ACTIVITY	FEDNUM ≥ 1
		0	None of the items above	
		1	At least one of the items above (FEDOUTCOME_1 to FEDOUTCOME_7) selected	
		-1	Not stated	
		-2	Not applicable	
FEDOUTCOMEMAIN	num(2)		MAIN OUTCOME OF THE MOST RECENT FORMAL EDUCATION ACTIVITY	FEDOUTCOME = 1
		1 digit	Code of the outcome from 1 to 7 as in variable FEDOUTCOME	
		-1	Not stated	
		-2	Not applicable	

Variable name	Format	Code	Description	Filter
			<i>PARTICIPATION IN NON-FORMAL EDUCATION AND TRAINING DURING THE LAST 12 MONTHS</i>	
NFECOURSE	num(1)		COURSES	
		1	Yes	
		2	No	
NFEWORKSHOP	num(1)		WORKSHOPS AND SEMINARS	
		1	Yes	
		2	No	
NFEGUIDEDJT	num(1)		GUIDED ON-THE-JOB TRAINING	
		1	Yes	
		2	No	
NFELESSON	num(1)		PRIVATE LESSONS	
		1	Yes	
		2	No	
NFE	num(1)		PARTICIPATION IN NON-FORMAL EDUCATION AND TRAINING DURING THE LAST 12 MONTHS	
		1	Yes	
		2	No	
NFENUM	num(2)		NUMBER OF NON-FORMAL EDUCATION AND TRAINING ACTIVITIES	NFE = 1
		0	None (NFE = 2)	
		1-99	Number of activities	
			<i>IDENTIFICATION OF NFE ACTIVITIES (UP TO 5)</i>	
NFEACT01_TYPE	num(2)		TYPE OF THE NON-FORMAL LEARNING ACTIVITY	NFENUM ≥ 1
		1	Courses	
		2	Workshops and seminars	
		3	Guided on-the-job training	
		4	Private lessons	
		-1	Not stated	
		-2	Not applicable	
NFEACT01_MAINSTAT	num(2)		MAIN ACTIVITY STATUS (SELF-DEFINED) AT THE START OF THE NON-FORMAL LEARNING ACTIVITY	NFENUM ≥ 1
		1	Employed	
		2	Unemployed	
		3	Outside the labour market	
		-1	Not stated	
		-2	Not applicable	
NFEACT01_PURP	num(2)		PURPOSE OF THE NON-FORMAL LEARNING ACTIVITY	NFENUM ≥ 1
		1	Mainly job-related	

Variable name	Format	Code	Description	Filter
		2	Mainly non-job-related	
		-1	Not stated	
		-2	Not applicable	
NFEACT01_WORKTIME	num(2)		NON-FORMAL LEARNING ACTIVITY DURING PAID WORKING HOURS	NFENUM ≥ 1
		1	Only during paid working hours	
		2	Mostly during paid working hours	
		3	Mostly outside paid working hours	
		4	Only outside paid working hours	
		5	Not working at that time	NFEACT01_MAINSTAT ≠ 1 ³
		-1	Not stated	
		-2	Not applicable	
NFEACT01_PAIDBY	num(2)		NON-FORMAL LEARNING ACTIVITY PARTIALLY OR FULLY PAID BY THE EMPLOYER OR PROSPECTIVE EMPLOYER	NFENUM ≥ 1
		1	Yes	
		2	No (including not working at that time)	
		-1	Not stated	
		-2	Not applicable	
NFEACT02_TYPE	num(2)		TYPE OF THE NON-FORMAL LEARNING ACTIVITY	NFENUM ≥ 2
			<i>same codes as NFEACT01_TYPE</i>	
NFEACT02_MAINSTAT	num(2)		MAIN ACTIVITY STATUS (SELF-DEFINED) AT THE START OF THE NON-FORMAL LEARNING ACTIVITY	NFENUM ≥ 2
			<i>same codes as NFEACT01_MAINSTAT</i>	
NFEACT02_PURP	num(2)		PURPOSE OF THE NON-FORMAL LEARNING ACTIVITY	NFENUM ≥ 2
			<i>same codes as NFEACT01_PURP</i>	
NFEACT02_WORKTIME	num(2)		NON-FORMAL LEARNING ACTIVITY DURING PAID WORKING HOURS	NFENUM ≥ 2
			<i>same codes as NFEACT01_WORKTIME</i>	
NFEACT02_PAIDBY	num(2)		NON-FORMAL LEARNING ACTIVITY PARTIALLY OR FULLY PAID BY THE EMPLOYER OR PROSPECTIVE EMPLOYER	NFENUM ≥ 2
			<i>same codes as NFEACT01_PAIDBY</i>	

³ Due to different reference periods, this filter is not necessarily correct and therefore only considered for a warning message in the validation rules.

Variable name	Format	Code	Description	Filter
NFEACT03_TYPE	num(2)		TYPE OF THE NON-FORMAL LEARNING ACTIVITY	NFENUM ≥ 3
			<i>same codes as NFEACT01_TYPE</i>	
NFEACT03_MAINSTAT	num(2)		MAIN ACTIVITY STATUS (SELF-DEFINED) AT THE START OF THE NON-FORMAL LEARNING ACTIVITY	NFENUM ≥ 3
			<i>same codes as NFEACT01_MAINSTAT</i>	
NFEACT03_PURP	num(2)		PURPOSE OF THE NON-FORMAL LEARNING ACTIVITY	NFENUM ≥ 3
			<i>same codes as NFEACT01_PURP</i>	
NFEACT03_WORKTIME	num(2)		NON-FORMAL LEARNING ACTIVITY DURING PAID WORKING HOURS	NFENUM ≥ 3
			<i>same codes as NFEACT01_WORKTIME</i>	
NFEACT03_PAIDBY	num(2)		NON-FORMAL LEARNING ACTIVITY PARTIALLY OR FULLY PAID BY THE EMPLOYER OR PROSPECTIVE EMPLOYER	NFENUM ≥ 3
			<i>same codes as NFEACT01_PAIDBY</i>	
NFEACT04_TYPE	num(2)		TYPE OF THE NON-FORMAL LEARNING ACTIVITY	NFENUM ≥ 4
			<i>same codes as NFEACT01_TYPE</i>	
NFEACT04_MAINSTAT	num(2)		MAIN ACTIVITY STATUS (SELF-DEFINED) AT THE START OF THE NON-FORMAL LEARNING ACTIVITY	NFENUM ≥ 4
			<i>same codes as NFEACT01_MAINSTAT</i>	
NFEACT04_PURP	num(2)		PURPOSE OF THE NON-FORMAL LEARNING ACTIVITY	NFENUM ≥ 4
			<i>same codes as NFEACT01_PURP</i>	
NFEACT04_WORKTIME	num(2)		NON-FORMAL LEARNING ACTIVITY DURING PAID WORKING HOURS	NFENUM ≥ 4
			<i>same codes as NFEACT01_WORKTIME</i>	
NFEACT04_PAIDBY	num(2)		NON-FORMAL LEARNING ACTIVITY PARTIALLY OR FULLY PAID BY THE EMPLOYER OR PROSPECTIVE EMPLOYER	NFENUM ≥ 4
			<i>same codes as NFEACT01_PAIDBY</i>	
NFEACT05_TYPE	num(2)		TYPE OF THE NON-FORMAL LEARNING ACTIVITY	NFENUM ≥ 5
			<i>same codes as NFEACT01_TYPE</i>	

Variable name	Format	Code	Description	Filter
NFEACT05_MAINSTAT	num(2)		MAIN ACTIVITY STATUS (SELF-DEFINED) AT THE START OF THE NON-FORMAL LEARNING ACTIVITY	NFENUM ≥ 5
			<i>same codes as NFEACT01_MAINSTAT</i>	
NFEACT05_PURP	num(2)		PURPOSE OF THE NON-FORMAL LEARNING ACTIVITY	NFENUM ≥ 5
			<i>same codes as NFEACT01_PURP</i>	
NFEACT05_WORKTIME	num(2)		NON-FORMAL LEARNING ACTIVITY DURING PAID WORKING HOURS	NFENUM ≥ 5
			<i>same codes as NFEACT01_WORKTIME</i>	
NFEACT05_PAIDBY	num(2)		NON-FORMAL LEARNING ACTIVITY PARTIALLY OR FULLY PAID BY THE EMPLOYER OR PROSPECTIVE EMPLOYER	NFENUM ≥ 5
			<i>same codes as NFEACT01_PAIDBY</i>	
NFERAND1	num(2)		CODE OF THE 1ST RANDOMLY-SELECTED NON-FORMAL LEARNING ACTIVITY	NFENUM ≥ 1
		01-05	Identification code of the activity; same as in the variables NFEACTxx	
		-2	Not applicable	
NFERAND1_TYPE	num(2)		TYPE OF THE 1ST ACTIVITY	NFENUM ≥ 1
		1-4	Code as reported in NFEACTxx_TYPE for the 1st randomly-selected activity	
		-1	Not stated	
		-2	Not applicable	
NFEFIELD1	char(2)		FIELD OF THE 1ST ACTIVITY	NFENUM ≥ 1
		1a	Basic programmes and qualifications	
		1b	Literacy and numeracy	
		1c	Personal skills and development	
		2	Education	
		3	Arts	
		4	Humanities	
		5	Language acquisition	
		6	Literature and linguistics	
		7	Social and behavioural sciences	
		8	Journalism and information	
		9	Business and administration	
		10	Law	
		11	Natural sciences, mathematics and statistics	
		12	Computer use	
		13	Database and network design and administration; software and applications development and analysis	

Variable name	Format	Code	Description	Filter
		14	Engineering and engineering trades, manufacturing and processing	
		15	Architecture and construction	
		16	Agriculture, forestry, fisheries and veterinary	
		17	Health	
		18	Welfare	
		19	Personal services, hygiene and occupational health services	
		20	Security services, transport services	
		-1	Not stated	
		-2	Not applicable	
NFESKILLSMAIN1	num(2)		MAIN SKILLS ACQUIRED THROUGH THE 1ST ACTIVITY	NFENUM ≥ 1
		1	IT skills (general and professional)	
		2	Management skills	
		3	Team working skills	
		4	Customer/clients/patients/students handling skills	
		5	Problem solving skills	
		6	Office administration skills	
		7	Foreign language skills	
		8	Technical and/or practical skills	
		9	Communication skills	
		10	Numeracy and/or literacy	
		11	Health and safety skills	
		12	Creative and musical skills, handicraft, cooking, gardening	
		13	Mental strength, intra-personal or self-knowledge skills	
		14	Physical skills	
		15	Other	
		-1	Not stated	
		-2	Not applicable	
NFEPLACE1	num(2)		PLACE OF INSTRUCTION OF THE 1ST ACTIVITY	NFENUM ≥ 1
		1	Completely online	
		2	Mostly online	
		3	Mostly on-site	
		4	Completely on-site	
		-1	Not stated	
		-2	Not applicable	
NFEONMAT1	num(2)		ONLINE PROVISION OF TEACHING MATERIALS FOR THE 1ST ACTIVITY	NFENUM ≥ 1
		1	Frequently	
		2	Sometimes	
		3	Never	
		-1	Not stated	
		-2	Not applicable	
NFEONTEA1	num(2)		ONLINE INTERACTION WITH TEACHING STAFF FOR THE 1ST ACTIVITY	NFENUM ≥ 1
		1	Frequently	

Variable name	Format	Code	Description	Filter
		2	Sometimes	
		3	Never	
		-1	Not stated	
		-2	Not applicable	
NFEONPAR1	num(2)		ONLINE INTERACTION WITH OTHER PARTICIPANTS FOR THE 1ST ACTIVITY	NFENUM ≥ 1
		1	Frequently	
		2	Sometimes	
		3	Never	
		4	No other participants	
		-1	Not stated	
		-2	Not applicable	
NFEINITIA1	num(2)		INITIATOR OF THE 1ST ACTIVITY	NFENUM ≥ 1 and NFEACTxx_PURP = 1 (job-related activity)
		1	Suggested by employer or prospective employer	
		2	Obligated by employer or prospective employer	
		3	Suggested by public employment services	
		4	Obligated by public employment services	
		5	You yourself	
		-1	Not stated	
		-2	Not applicable	
NFEREASON1_01a	num(2)		TO DO MY JOB BETTER	NFENUM ≥ 1 and NFEACTxx_PURP = 1 (job-related activity)
		1	Selected	
		2	Not selected	
		-1	Not stated	
		-2	Not applicable	
NFEREASON1_01b	num(2)		TO IMPROVE MY CAREER PROSPECTS	NFENUM ≥ 1 and NFEACTxx_PURP = 1 (job-related activity)
			<i>same codes as NFEREASON1_01a</i>	
NFEREASON1_02	num(2)		TO BE LESS LIKELY TO LOSE MY JOB	NFENUM ≥ 1 and NFEACTxx_PURP = 1 (job-related activity)
			<i>same codes as NFEREASON1_01a</i>	
NFEREASON1_03	num(2)		TO INCREASE MY POSSIBILITIES OF GETTING A JOB, OR CHANGING A JOB/PROFESSION	NFENUM ≥ 1 and NFEACTxx_PURP = 1 (job-related activity)
			<i>same codes as NFEREASON1_01a</i>	
NFEREASON1_04	num(2)		TO START MY OWN BUSINESS	NFENUM ≥ 1 and NFEACTxx_PURP = 1 (job-related activity)
			<i>same codes as NFEREASON1_01a</i>	

Variable name	Format	Code	Description	Filter
NFEREASON1_13	num(2)		BECAUSE OF ORGANISATIONAL AND/OR TECHNOLOGICAL CHANGES AT WORK	NFENUM ≥ 1 and NFEACTxx_PURP = 1 (job-related activity)
			<i>same codes as NFEREASON1_01a</i>	
NFEREASON1_11	num(2)		REQUIRED BY THE EMPLOYER OR PROSPECTIVE EMPLOYER OR BY LAW	NFENUM ≥ 1
			<i>same codes as NFEREASON1_01a</i>	
NFEREASON1_06_7	num(2)		TO INCREASE MY KNOWLEDGE/SKILLS FOR MY OWN GENERAL INTEREST AND CURIOSITY	NFENUM ≥ 1
			<i>same codes as NFEREASON1_01a</i>	
NFEREASON1_08	num(2)		TO OBTAIN A CERTIFICATE	NFENUM ≥ 1
			<i>same codes as NFEREASON1_01a</i>	
NFEREASON1_09	num(2)		TO MEET NEW PEOPLE/FOR FUN	NFENUM ≥ 1
			<i>same codes as NFEREASON1_01a</i>	
NFEREASON1_10	num(2)		FOR HEALTH REASONS	NFENUM ≥ 1
			<i>same codes as NFEREASON1_01a</i>	
NFEREASON1_12	num(2)		TO DO VOLUNTARY WORK BETTER	NFENUM ≥ 1
			<i>same codes as NFEREASON1_01a</i>	
NFEREASON1	num(2)		REASONS FOR PARTICIPATING IN THE 1ST ACTIVITY	NFENUM ≥ 1
		0	None of the items above	
		1	At least one of the items above (NFEREASON1_01a to NFEREASON1_13) selected	
		-1	Not stated	
		-2	Not applicable	
NFEREASONMAIN1	char(4)		MAIN REASON FOR PARTICIPATING IN THE 1ST ACTIVITY	NFEREASON1 = 1
		4 digits	Code of the reason from 01a to 13 as in variable NFEREASON1	
		-1	Not stated	
		-2	Not applicable	
NFENBHOURS1	num(4)		NUMBER OF INSTRUCTION HOURS OF THE 1ST ACTIVITY	NFENUM ≥ 1
		4 digits	Total number of instruction hours	
		-1	Not stated	
		-2	Not applicable	
NFEPAID1	num(2)		PAYMENT FOR THE 1ST ACTIVITY	NFENUM ≥ 1
		1	Fully paid by yourself	

Variable name	Format	Code	Description	Filter
		2	Partly paid by yourself and partly by somebody else	
		3	Fully paid by somebody else	
		4	Free activity	
		-1	Not stated	
		-2	Not applicable	
NFEPAIDBY1_1	num(2)		EMPLOYER OR PROSPECTIVE EMPLOYER	NFEPAID1 = 2 or 3
		1	Selected	
		2	Not selected	
		-1	Not stated	
		-2	Not applicable	
NFEPAIDBY1_2	num(2)		PUBLIC EMPLOYMENT SERVICES	NFEPAID1 = 2 or 3
			<i>same codes as NFEPAIDBY1_1</i>	
NFEPAIDBY1_3	num(2)		OTHER PUBLIC OR PRIVATE INSTITUTIONS	NFEPAID1 = 2 or 3
			<i>same codes as NFEPAIDBY1_1</i>	
NFEPAIDBY1_4	num(2)		A HOUSEHOLD MEMBER OR A RELATIVE	NFEPAID1 = 2 or 3
			<i>same codes as NFEPAIDBY1_1</i>	
NFEPAIDBY1	num(2)		SOURCE OF FUNDING OF PARTIAL OR FULL PAYMENT FOR THE 1ST ACTIVITY	NFEPAID1 = 2 or 3
		0	None of the items above	
		1	At least one of the items above (NFEPAIDBY1_1 to NFEPAIDBY1_4) selected	
		-1	Not stated	
		-2	Not applicable	
NFEPAIDVAL1	num(8)		EXPENDITURE FOR THE 1ST ACTIVITY	NFEPAID1 = 1 or 2 or (NFEPAID1 = 3 and NFEPAIDBY1_4 = 1)
		1-99999999	In euros (see annex 3 for exchange rates)	
		-1	Not stated	
		-2	Not applicable	
NFEPROVIDER1	num(2)		PROVIDER OF THE 1ST ACTIVITY	NFENUM ≥ 1
		1	Formal education institution	
		2	Non-formal education and training institution	
		4	Employer or prospective employer	
		11	Other public or private institution	
		8	Individual	
		-1	Not stated	
		-2	Not applicable	
NFECERT1	num(2)		CERTIFICATE AFTER THE 1ST ACTIVITY	NFENUM ≥ 1

Variable name	Format	Code	Description	Filter
		1	Yes, required by the employer or prospective employer or a professional body or by law	
		2	Yes, not required by the employer or prospective employer or a professional body or by law	
		3	No (acknowledgement of attendance)	
		-1	Not stated	
		-2	Not applicable	
NFEUSEA1	num(2)		CURRENT USE OF SKILLS OR KNOWLEDGE FROM THE 1ST ACTIVITY	NFENUM ≥ 1
		1	A lot	
		2	A fair amount	
		3	Very little	
		4	Not at all	
		-1	Not stated	
		-2	Not applicable	
NFEOUTCOME1_1	num(2)		GETTING A (NEW) JOB	NFENUM ≥ 1
		1	Selected	
		2	Not selected	
		-1	Not stated	
		-2	Not applicable	
NFEOUTCOME1_3	num(2)		HIGHER SALARY/WAGES	NFENUM ≥ 1
			<i>same codes as NFEOUTCOME1_1</i>	
NFEOUTCOME1_2	num(2)		PROMOTION IN THE JOB	NFENUM ≥ 1
			<i>same codes as NFEOUTCOME1_1</i>	
NFEOUTCOME1_4	num(2)		NEW TASKS	NFENUM ≥ 1
			<i>same codes as NFEOUTCOME1_1</i>	
NFEOUTCOME1_5	num(2)		BETTER PERFORMANCE IN PRESENT JOB	NFENUM ≥ 1
			<i>same codes as NFEOUTCOME1_1</i>	
NFEOUTCOME1_6	num(2)		PERSONAL BENEFITS (MEET OTHER PEOPLE, REFRESH OR ACQUIRE SKILLS ON GENERAL OR SPECIFIC SUBJECTS, ETC.)	NFENUM ≥ 1
			<i>same codes as NFEOUTCOME1_1</i>	
NFEOUTCOME1_7	num(2)		NO OUTCOME YET	NFENUM ≥ 1
			<i>same codes as NFEOUTCOME1_1</i>	
NFEOUTCOME1	num(2)		OUTCOMES OF THE 1ST ACTIVITY	NFENUM ≥ 1
		0	None of the items above	
		1	At least one of the items above (NFEOUTCOME1_1 to NFEOUTCOME1_7) selected	
		-1	Not stated	
		-2	Not applicable	

Variable name	Format	Code	Description	Filter
NFEOUTCOMEMAIN1	num(2)		MAIN OUTCOME OF THE 1ST ACTIVITY	NFEOUTCOME1 = 1
		1 digit	Code of the outcome from 1 to 7 as in variable NFEOUTCOME1	
		-1	Not stated	
		-2	Not applicable	
NFERAND2	num(2)		CODE OF THE 2ND RANDOMLY-SELECTED NON-FORMAL LEARNING ACTIVITY	NFENUM ≥ 2
NFERAND2_TYPE	num(2)		TYPE OF THE 2ND ACTIVITY	NFENUM ≥ 2
NFEFIELD2	char(2)		FIELD OF THE 2ND ACTIVITY	NFENUM ≥ 2
NFESKILLSMAIN2	num(2)		MAIN SKILLS ACQUIRED THROUGH THE 1ST ACTIVITY	NFENUM ≥ 2
NFEPLACE2	num(2)		PLACE OF INSTRUCTION OF THE 2ND ACTIVITY	NFENUM ≥ 2
NFEONMAT2	num(2)		ONLINE PROVISION OF TEACHING MATERIALS FOR THE 2ND ACTIVITY	NFENUM ≥ 2
NFEONTEA2	num(2)		ONLINE INTERACTION WITH TEACHING STAFF FOR THE 2ND ACTIVITY	NFENUM ≥ 2
NFEONPAR2	num(2)		ONLINE INTERACTION WITH OTHER PARTICIPANTS FOR THE 2ND ACTIVITY	NFENUM ≥ 2
NFEINITIA2	num(2)		INITIATOR OF THE 2ND ACTIVITY	NFENUM ≥ 2 and NFEACTxx_PURP = 1 (job-related activity)
NFEREASON2_01a	num(2)		TO DO MY JOB BETTER	NFENUM ≥ 2 and NFEACTxx_PURP = 1 (job-related activity)
NFEREASON2_01b	num(2)		TO IMPROVE MY CAREER PROSPECTS	NFENUM ≥ 2 and NFEACTxx_PURP = 1 (job-related activity)
NFEREASON2_02	num(2)		TO BE LESS LIKELY TO LOSE MY JOB	NFENUM ≥ 2 and NFEACTxx_PURP = 1 (job-related activity)
NFEREASON2_03	num(2)		TO INCREASE MY POSSIBILITIES OF GETTING A JOB OR CHANGING A JOB/PROFESSION	NFENUM ≥ 2 and NFEACTxx_PURP = 1 (job-related activity)
NFEREASON2_04	num(2)		TO START MY OWN BUSINESS	NFENUM ≥ 2 and NFEACTxx_PURP = 1 (job-related activity)

Variable name	Format	Code	Description	Filter
NFEREASON2_13	num(2)		BECAUSE OF ORGANISATIONAL AND/OR TECHNOLOGICAL CHANGES AT WORK	NFENUM \geq 2 and NFEACTxx_PURP = 1 (job-related activity)
NFEREASON2_11	num(2)		REQUIRED BY THE EMPLOYER OR PROSPECTIVE EMPLOYER OR BY LAW	NFENUM \geq 2
NFEREASON2_06_7	num(2)		TO INCREASE MY KNOWLEDGE/SKILLS FOR MY OWN GENERAL INTEREST AND CURIOSITY	NFENUM \geq 2
NFEREASON2_08	num(2)		TO OBTAIN A CERTIFICATE	NFENUM \geq 2
NFEREASON2_09	num(2)		TO MEET NEW PEOPLE/FOR FUN	NFENUM \geq 2
NFEREASON2_10	num(2)		FOR HEALTH REASONS	NFENUM \geq 2
NFEREASON2_12	num(2)		TO DO VOLUNTARY WORK BETTER	NFENUM \geq 2
NFEREASON2	num(2)		REASONS FOR PARTICIPATING IN THE 2ND ACTIVITY	NFENUM \geq 2
NFEREASONMAIN2	char(4)		MAIN REASON FOR PARTICIPATING IN THE 2ND ACTIVITY	NFEREASON2 = 1
NFENBHOURS2	num(4)		NUMBER OF INSTRUCTION HOURS OF THE 2ND ACTIVITY	NFENUM \geq 2
NFEPAID2	num(2)		PAYMENT FOR THE 2ND ACTIVITY	NFENUM \geq 2
NFEPAIDBY2_1	num(2)		EMPLOYER OR PROSPECTIVE EMPLOYER	NFEPAID2 = 2 or 3
NFEPAIDBY2_2	num(2)		PUBLIC EMPLOYMENT SERVICES	NFEPAID2 = 2 or 3
NFEPAIDBY2_3	num(2)		OTHER PUBLIC OR PRIVATE INSTITUTIONS	NFEPAID2 = 2 or 3
NFEPAIDBY2_4	num(2)		A HOUSEHOLD MEMBER OR A RELATIVE	NFEPAID2 = 2 or 3
NFEPAIDBY2	num(2)		SOURCE OF FUNDING OF PARTIAL OR FULL PAYMENT FOR THE 2ND ACTIVITY	NFEPAID2 = 2 or 3
NFEPAIDVAL2	num(8)		EXPENDITURE FOR THE 2ND ACTIVITY	NFEPAID2 = 1 or 2 or (NFEPAID2 = 3 and NFEPAIDBY2_4 = 1)
NFEPROVIDER2	num(2)		PROVIDER OF THE 2ND ACTIVITY	NFENUM \geq 2

Variable name	Format	Code	Description	Filter
NFECERT2	num(2)		CERTIFICATE AFTER THE 2ND ACTIVITY	NFENUM \geq 2
NFEUSEA2	num(2)		CURRENT USE OF SKILLS OR KNOWLEDGE FROM THE 2ND ACTIVITY	NFENUM \geq 2
NFEOUTCOME2_1	num(2)		GETTING A (NEW) JOB	NFENUM \geq 2
NFEOUTCOME2_3	num(2)		HIGHER SALARY/WAGES	NFENUM \geq 2
NFEOUTCOME2_2	num(2)		PROMOTION IN THE JOB	NFENUM \geq 2
NFEOUTCOME2_4	num(2)		NEW TASKS	NFENUM \geq 2
NFEOUTCOME2_5	num(2)		BETTER PERFORMANCE IN PRESENT JOB	NFENUM \geq 2
NFEOUTCOME2_6	num(2)		PERSONAL BENEFITS (MEET OTHER PEOPLE, REFRESH OR ACQUIRE SKILLS ON GENERAL OR SPECIFIC SUBJECTS, ETC.)	NFENUM \geq 2
NFEOUTCOME2_7	num(2)		NO OUTCOME YET	NFENUM \geq 2
NFEOUTCOME2	num(2)		OUTCOMES OF THE 2ND ACTIVITY	NFENUM \geq 2
NFEOUTCOMEMAIN2	num(2)		MAIN OUTCOME OF THE 2ND ACTIVITY	NFEOUTCOME2 = 1
WANT	num(2)		WILL TO PARTICIPATE (MORE) IN EDUCATION AND TRAINING	
		1	Person participated in formal or non-formal education but did not want to participate more	FEDNUM \geq 1 or NFENUM \geq 1
		2	Person participated in formal or non-formal education and wanted to participate more	FEDNUM \geq 1 or NFENUM \geq 1
		3	Person did not participate in formal or non-formal education and did not want to participate	FEDNUM = 0 and NFENUM = 0
		4	Person did not participate in formal or non-formal education but wanted to participate	FEDNUM = 0 and NFENUM = 0
		-1	Not stated	
NONEED	num(2)		NO NEED FOR (FURTHER) EDUCATION AND TRAINING	WANT = 1 or 3
		1	Yes	
		2	No	
		-1	Not stated	
		-2	Not applicable	
DIFFTYPE_01	num(2)		PREREQUISITES	(WANT = 2 or 4) or NONEED = 2

Variable name	Format	Code	Description	Filter
		1	Selected	
		2	Not selected	
		-1	Not stated	
		-2	Not applicable	
DIFFTYPE_02	num(2)		COST	(WANT = 2 or 4) or NONEED = 2
			<i>same codes as DIFFTYPE_01</i>	
DIFFTYPE_03a	num(2)		LACK OF EMPLOYER SUPPORT	(WANT = 2 or 4) or NONEED = 2
			<i>same codes as DIFFTYPE_01</i>	
DIFFTYPE_03b	num(2)		LACK OF PUBLIC SERVICES SUPPORT	(WANT = 2 or 4) or NONEED = 2
			<i>same codes as DIFFTYPE_01</i>	
DIFFTYPE_04	num(2)		SCHEDULE	(WANT = 2 or 4) or NONEED = 2
			<i>same codes as DIFFTYPE_01</i>	
DIFFTYPE_05	num(2)		DISTANCE	(WANT = 2 or 4) or NONEED = 2
			<i>same codes as DIFFTYPE_01</i>	
DIFFTYPE_07	num(2)		FAMILY RESPONSIBILITIES	(WANT = 2 or 4) or NONEED = 2
			<i>same codes as DIFFTYPE_01</i>	
DIFFTYPE_08a	num(2)		HEALTH	(WANT = 2 or 4) or NONEED = 2
			<i>same codes as DIFFTYPE_01</i>	
DIFFTYPE_08b	num(2)		AGE	(WANT = 2 or 4) or NONEED = 2
			<i>same codes as DIFFTYPE_01</i>	
DIFFTYPE_09	num(2)		OTHER PERSONAL REASONS	(WANT = 2 or 4) or NONEED = 2
			<i>same codes as DIFFTYPE_01</i>	
DIFFTYPE_10	num(2)		NO SUITABLE EDUCATION OR TRAINING ACTIVITY (OFFER)	(WANT = 2 or 4) or NONEED = 2
			<i>same codes as DIFFTYPE_01</i>	
DIFFTYPE_12	num(2)		NEGATIVE PREVIOUS LEARNING EXPERIENCE	(WANT = 2 or 4) or NONEED = 2
			<i>same codes as DIFFTYPE_01</i>	
DIFFTYPE_13	num(2)		COURSE WAS BOOKED OUT	(WANT = 2 or 4) or NONEED = 2
			<i>same codes as DIFFTYPE_01</i>	
DIFFTYPE_14	num(2)		TOO FEW REGISTRATIONS	(WANT = 2 or 4) or NONEED = 2
			<i>same codes as DIFFTYPE_01</i>	

Variable name	Format	Code	Description	Filter
DIFFTYPE	num(2)		REASONS FOR NOT PARTICIPATING (MORE) IN FORMAL OR NON-FORMAL EDUCATION AND TRAINING	(WANT = 2 or 4) or NONEED = 2
		0	None of the items above	
		1	At least one of the items above (DIFFTYPE_01 to DIFFTYPE_14) selected	
		-1	Not stated	
		-2	Not applicable	
DIFFMAIN	char(3)		MAIN REASON FOR NOT PARTICIPATING (MORE) IN EDUCATION AND TRAINING	DIFFTYPE = 1
		01-14	Code of the reason from 01 to 14 as in variable DIFFTYPE	
		-1	Not stated	
		-2	Not applicable	
			<i>PARTICIPATION IN INFORMAL LEARNING DURING THE LAST 12 MONTHS</i>	
INFFAMILY	num(1)		LEARNING FROM A FAMILY MEMBER, A FRIEND OR A COLLEAGUE	
		1	Yes	
		2	No	
INFMATERIAL	num(1)		LEARNING BY USING PRINTED MATERIAL (BOOKS, PROFESSIONAL MAGAZINES, ETC.)	
		1	Yes	
		2	No	
INFDEVICE	num(1)		LEARNING BY USING ELECTRONIC DEVICES (ONLINE OR OFFLINE)	
		1	Yes	
		2	No	
INFMUSEUM	num(1)		LEARNING BY GUIDED TOURS IN MUSEUMS, HISTORICAL OR NATURAL OR INDUSTRIAL SITES	
		1	Yes	
		2	No	
INFLIBRARIES	num(1)		LEARNING BY VISITING LEARNING CENTRES (INCLUDING LIBRARIES)	
		1	Yes	
		2	No	
INF	num(1)		PARTICIPATION IN INFORMAL LEARNING DURING THE LAST 12 MONTHS	
		1	Yes	
		2	No	

Variable name	Format	Code	Description	Filter
INFPURP	num(2)		PURPOSE OF THE INFORMAL LEARNING	INF = 1
		1	At least one informal learning activity job-related	
		2	Non-job-related	
		-1	Not stated	
		-2	Not applicable	
LANGMOTH1	char(3)		1ST MOTHER TONGUE	
		3 digits	Code of the first language, see annex 9	
LANGMOTH2	char(3)		2ND MOTHER TONGUE	
		3 digits	Code of the second language, see annex 9	
		000	None	
LANGUSED_1	char(3)		FIRST LANGUAGE (OTHER THAN MOTHER TONGUE(S))	
		3 digits	Code of the language, see annex 9	
		000	None	
		-1	Not stated	
LANGUSED_2	char(3)		SECOND LANGUAGE (OTHER THAN MOTHER TONGUE(S))	
			<i>same codes as LANGUSED_1</i>	
LANGUSED_3	char(3)		THIRD LANGUAGE (OTHER THAN MOTHER TONGUE(S))	
			<i>same codes as LANGUSED_1</i>	
LANGUSED_4	char(3)		FOURTH LANGUAGE (OTHER THAN MOTHER TONGUE(S))	
			<i>same codes as LANGUSED_1</i>	
LANGUSED_5	char(3)		FIFTH LANGUAGE (OTHER THAN MOTHER TONGUE(S))	
			<i>same codes as LANGUSED_1</i>	
LANGUSED_6	char(3)		SIXTH LANGUAGE (OTHER THAN MOTHER TONGUE(S))	
			<i>same codes as LANGUSED_1</i>	
LANGUSED_7	char(3)		SEVENTH LANGUAGE (OTHER THAN MOTHER TONGUE(S))	
			<i>same codes as LANGUSED_1</i>	
LANGUSED	num(2)		LANGUAGE(S) USED OTHER THAN MOTHER TONGUE(S)	
		0-99	Number of other languages	
		-1	Not stated	
LANGBEST1	char(3)		FIRST BEST-KNOWN LANGUAGE OTHER THAN MOTHER TONGUE(S)	LANGUSED ≥ 1
		3 digits	Code of the language, see annex 9	
		-1	Not stated	

Variable name	Format	Code	Description	Filter
		-2	Not applicable	
LANGLEVEL1	num(2)		LEVEL OF THE FIRST BEST-KNOWN LANGUAGE OTHER THAN MOTHER TONGUE(S)	LANGBEST1 \neq -1, -2
		0	Hardly any language skills	
		1	Beginner (basic user)	
		2	Intermediate (independent user)	
		3	Advanced (proficient user)	
		-1	Not stated	
		-2	Not applicable	
LANGBEST2	char(3)		SECOND BEST-KNOWN LANGUAGE OTHER THAN MOTHER TONGUE(S)	LANGUSED \geq 2
			<i>same codes as LANGBEST1</i>	
LANGLEVEL2	num(2)		LEVEL OF THE SECOND BEST-KNOWN LANGUAGE OTHER THAN MOTHER TONGUE(S)	LANGBEST2 \neq -1, -2
			<i>same codes as LANGLEVEL1</i>	
GENHEALTH	num(2)		SELF-PERCEIVED GENERAL HEALTH	
		1	Very good	
		2	Good	
		3	Fair (neither good nor bad)	
		4	Bad	
		5	Very bad	
		-1	Not stated	
GALI	num(2)		LIMITATION IN ACTIVITIES BECAUSE OF HEALTH PROBLEMS (GLOBAL ACTIVITY LIMITATION INDICATOR - GALI)	
		1	Severely limited	
		2	Limited but not severely	
		3	Not limited at all	
		-1	Not stated	

Annex 2 – Coding and checking of 'global' variables with multiple-choice sub-categories

The following 'global' variables and their sub-categories are concerned:

'Global' variable	Sub-categories
GUIDE	GUIDE_1 to GUIDE_3
GUIDESOURCE	GUIDESOURCE_1 to GUIDESOURCE_4
GUIDEINTER	GUIDEINTER_1 to GUIDEINTER_2
FEDREASON	FEDREASON_01a to FEDREASON_09
FEDPAIDBY	FEDPAIDBY_1 to FEDPAIDBY_4
FEDOUTCOME	FEDOUTCOME_1 to FEDOUTCOME_7
NFEREASON _x	NFEREASON _x _01a to NFEREASON _x _13
NFEPAIDBY _x	NFEPAIDBY _x _1 to NFEPAIDBY _x _4
NFEOUTCOME _x	NFEOUTCOME _x _1 to NFEOUTCOME _x _7
DIFFTYPE	DIFFTYPE_01 to DIFFTYPE_14
Coding of 'global' variables	Coding of sub-categories
0 – none of the items	1 – selected
1 – at least one of the items selected	2 – not selected
-1 – not stated	-1 – not stated
-2 – not applicable	-2 – not applicable

Implementation in national questionnaires

For national questionnaires, there are two options to implement these multiple-choice variables:

- Option A: single checklist (recommended)
- Option B: yes/no checklist

The type of checklist chosen has an impact on coding. Eurostat recommends the use of *single checklists*. The implications of the type of checklist used for the coding of the variables is explained in the following.

Option A – single checklist

Example FEDPAIDBY

- | | | |
|--------------------------|--|---------------|
| <input type="checkbox"/> | Employer or prospective employer | (FEDPAIDBY_1) |
| <input type="checkbox"/> | Public employment services | (FEDPAIDBY_2) |
| <input type="checkbox"/> | Other public or private institutions | (FEDPAIDBY_3) |
| <input type="checkbox"/> | A household member or a relative | (FEDPAIDBY_4) |
| <input type="checkbox"/> | None of the items above / other (please specify) | |

If a single checklist is used an additional sub-category 'none of the above' or 'other (please specify)' needs to be in this checklist (even if this is not a sub-category for data transmission) in order to allow a distinction between 'none of the items above' and 'not stated' in the 'global' variable FEDPAIDBY.

Implications for coding:

Any ticked sub-category is coded 1. Sub-categories not ticked are coded 2. The code -1 is only applied if none of the five sub-categories is ticked, and only then all sub-categories FEDPAIDBY_1 to FEDPAIDBY_4 are coded -1; the 'global' variable FEDPAIDBY is also coded -1.

'Partial non-response' is not possible, i.e. there are no combinations of codes 1 and -1 – as soon as one of the five sub-categories is selected, all other not selected sub-categories are by default coded 2.

Option B – yes/no checklist

Example FEDPAIDBY

	Yes	No	<i>[Not stated/ do not know]</i>	
Employer or prospective employer	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	(FEDPAIDBY_1)
Public employment services	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	(FEDPAIDBY_2)
Other public or private institutions	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	(FEDPAIDBY_3)
A household member or a relative	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	(FEDPAIDBY_4)

For each of the sub-categories, tick boxes for 'yes' and 'no' are provided, a tick box for 'not stated' (or 'do not know') might or might not be offered.

An additional sub-category 'other (please specify)' could be provided but is not necessary to allow a distinction between 'none of the items' and 'not stated' in FEDPAIDBY, as this can be derived from the 'no' or 'not stated' ticked for the four sub-categories.

Implications for coding:

With a yes/no checklist, each sub-category can be coded as either 1, 2 or -1, i.e. 'partial non-response' is possible if the respondent answered 'yes' to the first sub-category, 'no' to the second and left the other two sub-categories empty (or ticked 'not stated/do not know').

In order to harmonise the treatment of 'not stated' for option B with coding for option A, coding for option B should be as follows:

If any sub-category FEDPAIDBY_1 to FEDPAIDBY_4 is ticked 'yes', all other sub-categories for which 'yes' is NOT ticked should be coded 2 (i.e. sub-categories where neither 'yes' nor 'no' is ticked should be coded 2).

All sub-categories FEDPAIDBY_1 to FEDPAIDBY_4 should only be coded -1 if all are either empty or 'not stated/do not know' is ticked for all of them.

Checking rules

The validation software checks the consistent coding for the above listed variables according to four main rules, and the checking is done two ways: (1) from the sub-categories to the 'global' variable and (2) from the 'global' variable to the sub-categories.

The rules are illustrated for the variable FEDPAIDBY *"Which of the following entities paid (partly/fully) for tuition, registration, exam fees, and expenses for books or technical study means, regarding your studies for the most recent formal education or training activity (<FEDNAME>)? (mark all that apply)"*

From sub-categories to 'global' variable:

1) If (FEDPAIDBY_1 and FEDPAIDBY_2 and FEDPAIDBY_3 and FEDPAIDBY_4) = 2 then
FEDPAIDBY = 0

2) If (FEDPAIDBY_1 or FEDPAIDBY_2 or FEDPAIDBY_3 or FEDPAIDBY_4) = 1 then
FEDPAIDBY = 1

3) If (FEDPAIDBY_1 and FEDPAIDBY_2 and FEDPAIDBY_3 and FEDPAIDBY_4) = -1 then
FEDPAIDBY = -1

4) If (FEDPAIDBY_1 and FEDPAIDBY_2 and FEDPAIDBY_3 and FEDPAIDBY_4) = -2 then
FEDPAIDBY = -2

⇒ this is the usual check for correct application of the filter; accordingly, this rule does not apply to variables with no filter.

From 'global' variable to sub-categories:

1) If FEDPAIDBY = 0 then (FEDPAIDBY_1 and FEDPAIDBY_2 and FEDPAIDBY_3 and FEDPAIDBY_4) = 2

2) If FEDPAIDBY = 1 then (FEDPAIDBY_1 or FEDPAIDBY_2 or FEDPAIDBY_3 or FEDPAIDBY_4) = 1

3) If FEDPAIDBY = -1 then (FEDPAIDBY_1 and FEDPAIDBY_2 and FEDPAIDBY_3 and FEDPAIDBY_4) = -1

⇒ the issue of 'partial non-response', i.e. the combination of codes 1 or 2 with code -1 for the sub-categories FEDPAIDBY_1 to FEDPAIDBY_4 should only emerge in case of questionnaire option B (see above), and then these 'partial non-response' have to be recoded from -1 into 2. For further clarifications, see the above explanations on the options for national questionnaire implementation and the implications for coding.

4) If FEDPAIDBY = -2 then (FEDPAIDBY_1 and FEDPAIDBY_2 and FEDPAIDBY_3 and FEDPAIDBY_4) = -2

Annex 3 – Euro exchange rates

The AES is to be conducted between July 2022 and March 2023. Learning activities in the sample may therefore take place between June 2021 and March 2022.

It is recommended to consider a single exchange rate per country, i.e. preferably close to the middle of the reference period for learning activities.

The adequate source for the Euro exchange rates is the table '**ert_bil_eur_q**' on Eurostat's website. To retrieve the data, type '**ert_bil_eur_q**' in the search engine at the top of the webpage: <http://ec.europa.eu/eurostat/data/database>

The exchange rate used should be mentioned in the quality report.

Annex 4 – ISCED 2011 and ISCED-F 2013

In the 2022 AES, the level of education and training is classified according to **ISCED 2011**, and the field of education is classified according to **Fields of education and training ISCED-F 2013**.

The level of detail is defined for each variable that refers to ISCED. For further information, see the explanatory notes.

For detailed codes and further information on the ISCED 2011 and ISCED-F 2013, see <http://uis.unesco.org/en/topic/international-standard-classification-education-isced>

Information is also available on Eurostat [CIRCABC pages](#).

Annex 5 – Classification of learning activities 2016 (CLA 2016)

The Classification of learning activities 2016 (CLA 2016) builds on the concepts of ISCED 2011 and provides additional information and guidelines on formal, non-formal and informal learning activities.

CLA 2016 is available on [Eurostat's website](#).

Annex 6 – Country and region codes

Country codes are according to the Eurostat Standard Code list (SCL) GEO, which is largely based on the International Organization for Standardization (ISO) 3166 country codes (3166-1 alpha-2).

The SCL GEO is available on [Eurostat's website](#).

Country codes

EUROPEAN UNION

BE	Belgium
BG	Bulgaria
CZ	Czechia
DK	Denmark
DE	Germany
EE	Estonia
IE	Ireland
EL	Greece
ES	Spain
FR	France
HR	Croatia
IT	Italy
CY	Cyprus
LV	Latvia
LT	Lithuania
LU	Luxembourg
HU	Hungary
MT	Malta
NL	Netherlands
AT	Austria
PL	Poland
PT	Portugal
RO	Romania
SI	Slovenia
SK	Slovak Republic
FI	Finland
SE	Sweden

CANDIDATE AND EFTA COUNTRIES

CH	Switzerland
IS	Iceland
LI	Liechtenstein
MD	Moldova
ME	Montenegro
MK	North Macedonia
NO	Norway
RS	Serbia
UA	Ukraine
TR	Turkey

OTHER EUROPEAN COUNTRIES

AD	Andorra
AL	Albania
BA	Bosnia Herzegovina
BY	Belarus
FO	Faroe Islands
GG	Guernsey
GI	Gibraltar
IM	Isle of Man
JE	Jersey
MC	Monaco
RU	Russian Federation
SM	San Marino
UK	United Kingdom
VA	Vatican City
XK	Kosovo (UNSCR1244)
CS	Czechoslovakia
SU	Soviet Union
YU	Yugoslavia

NORTH AFRICA

DZ Algeria
 EG Egypt
 LY Libya
 MA Morocco
 TN Tunisia

OTHER AFRICA

AO Angola
 BF Burkina Faso
 BI Burundi
 BJ Benin
 BW Botswana
 CD Republic Democratic of Congo
 CF Central African Republic
 CG Congo
 CI Ivory Coast
 CM Cameroon
 CV Cape Verde
 DJ Djibouti
 ER Eritrea
 ET Ethiopia
 GA Gabon
 GH Ghana
 GM Gambia
 GN Guinea
 GQ Equatorial Guinea
 GW Guinea-Bissau
 KE Kenya
KM Comoros
 LR Liberia
 LS Lesotho
 MG Madagascar
 ML Mali
 MR Mauritania
 MU Mauritius
 MW Malawi
 MZ Mozambique
 NA Namibia
 NE Niger
 NG Nigeria
 RW Rwanda
 SC Seychelles
 SD Sudan
SH Saint Helena
 SL Sierra Leone
 SN Senegal
 SO Somalia
 ST Sao Tome and Principe
 SZ Swaziland
 TD Chad

TG Togo
 TZ Tanzania
 UG Uganda
 ZA South Africa
 ZM Zambia
 ZW Zimbabwe

NORTH AMERICA

BM Bermuda
 CA Canada
 GL Greenland
 PM Saint Pierre and Miquelon
 US United States of America

CENTRAL AMERICA AND CARRIBEAN

AG Antigua and Barbuda
AI Anguilla
 AN Netherlands Antilles
 BB Barbados
BL Saint Barthelemy
 BS Bahamas
 BZ Belize
 CR Costa Rica
 CU Cuba
 DM Dominica
 DO Dominican Republic
 GD Grenada
 GT Guatemala
 HN Honduras
 HT Haiti
 JM Jamaica
KN Saint Kitts and Nevis
KY Cayman Islands
LC Saint Lucia
MF Saint Martin
MS Montserrat
 MX Mexico
 NI Nicaragua
 PA Panama
 SV El Salvador
TC Turks and Caicos Islands
 TT Trinidad and Tobago
VC Saint Vincent and the Grenadines
VG British Virgin Islands

SOUTH AMERICA

AR Argentina
BO Bolivia
BR Brazil
CL Chile
CO Colombia
EC Ecuador
FK Falkland Islands (Malvinas)
GY Guyana
PE Peru
PY Paraguay
SR Suriname
TF French Southern Territories
UY Uruguay
VE Venezuela

EAST ASIA

CN China
JP Japan
KP Dem. People's Republic of Korea
(North)
KR Republic of Korea (South)
MN Mongolia
TW Taiwan

NEAR AND MIDDLE EAST

AE United Arab Emirates
AM Armenia
AZ Azerbaijan
BH Bahrain
GE Georgia
IL Israel
IQ Iraq
IR Iran
JO Jordan
KG Kyrgyzstan
KW Kuwait
KZ Kazakhstan
LB Lebanon
OM Oman
PS Palestine
QA Qatar
SA Saudi Arabia
SY Syria
TJ Tajikistan
TM Turkmenistan
UZ Uzbekistan
YE Yemen

SOUTH AND SOUTH EAST ASIA

AF Afghanistan

BD Bangladesh
BN Brunei
BT Bhutan
ID Indonesia
IN India
KH Cambodia
LA Laos
LK Sri Lanka
MM Myanmar
MV Maldives
MY Malaysia
NP Nepal
PH Philippines
PK Pakistan
SG Singapore
TH Thailand
TL East Timor
VN Vietnam

AUSTRALIA, OCEANIA AND OTHER TERRITORIES

AU Australia
FJ Fiji
FM Micronesia
KI Kiribati
MH Marshall Islands
NC New Caledonia
NR Nauru
NZ New Zealand
PF French Polynesia
PG Papua New Guinea
PN Pitcairn
PW Palau
SB Solomon Islands
TO Tonga
TV Tuvalu
VU Vanuatu
WF Wallis and Futuna
WS Samoa

Region codes (NUTS 2)

For details, see [Eurostat's webpage](#).

For 2022 AES, the NUTS 2021 classification is to be used.

Annex 7 – NACE Rev. 2

This list is identical to the standard code list (SCL – NACE_R2) available in [Eurostat's website](#).

Code	Description
SECTION A	AGRICULTURE, FORESTRY AND FISHING
A01	Crop and animal production, hunting and related service activities
A02	Forestry and logging
A03	Fishing and aquaculture
SECTION B	MINING AND QUARRYING
B05	Mining of coal and lignite
B06	Extraction of crude petroleum and natural gas
B07	Mining of metal ores
B08	Other mining and quarrying
B09	Mining support service activities
SECTION C	MANUFACTURING
C10	Manufacture of food products
C11	Manufacture of beverages
C12	Manufacture of tobacco products
C13	Manufacture of textiles
C14	Manufacture of wearing apparel
C15	Manufacture of leather and related products
C16	Manufacture of wood and of products of wood and cork, except furniture; manufacture of articles of straw and plaiting materials
C17	Manufacture of paper and paper products
C18	Printing and reproduction of recorded media
C19	Manufacture of coke and refined petroleum products
C20	Manufacture of chemicals and chemical products
C21	Manufacture of basic pharmaceutical products and pharmaceutical preparations
C22	Manufacture of rubber and plastic products
C23	Manufacture of other non-metallic mineral products
C24	Manufacture of basic metals
C25	Manufacture of fabricated metal products, except machinery and equipment
C26	Manufacture of computer, electronic and optical products
C27	Manufacture of electrical equipment
C28	Manufacture of machinery and equipment n.e.c.
C29	Manufacture of motor vehicles, trailers and semi-trailers
C30	Manufacture of other transport equipment
C31	Manufacture of furniture
C32	Other manufacturing
C33	Repair and installation of machinery and equipment

SECTION D	ELECTRICITY, GAS, STEAM AND AIR CONDITIONING SUPPLY
D35	Electricity, gas, steam and air conditioning supply
SECTION E	WATER SUPPLY; SEWERAGE, WASTE MANAGEMENT AND REMEDIATION ACTIVITIES
E36	Water collection, treatment and supply
E37	Sewerage
E38	Waste collection, treatment and disposal activities; materials recovery
E39	Remediation activities and other waste management services
SECTION F	CONSTRUCTION
F41	Construction of buildings
F42	Civil engineering
F43	Specialised construction activities
SECTION G	WHOLESALE AND RETAIL TRADE; REPAIR OF MOTOR VEHICLES AND MOTORCYCLES
G45	Wholesale and retail trade and repair of motor vehicles and motorcycles
G46	Wholesale trade, except of motor vehicles and motorcycles
G47	Retail trade, except of motor vehicles and motorcycles
SECTION H	TRANSPORTATION AND STORAGE
H49	Land transport and transport via pipelines
H50	Water transport
H51	Air transport
H52	Warehousing and support activities for transportation
H53	Postal and courier activities
SECTION I	ACCOMMODATION AND FOOD SERVICE ACTIVITIES
I55	Accommodation
I56	Food and beverage service activities
SECTION J	INFORMATION AND COMMUNICATION
J58	Publishing activities
J59	Motion picture, video and television programme production, sound recording and music publishing activities
J60	Programming and broadcasting activities
J61	Telecommunications
J62	Computer programming, consultancy and related activities
J63	Information service activities
SECTION K	FINANCIAL AND INSURANCE ACTIVITIES
K64	Financial service activities, except insurance and pension funding
K65	Insurance, reinsurance and pension funding, except compulsory social security
K66	Activities auxiliary to financial services and insurance activities
SECTION L	REAL ESTATE ACTIVITIES
L68	Real estate activities
SECTION M	PROFESSIONAL, SCIENTIFIC AND TECHNICAL ACTIVITIES

	M69	Legal and accounting activities
	M70	Activities of head offices; management consultancy activities
	M71	Architectural and engineering activities; technical testing and analysis
	M72	Scientific research and development
	M73	Advertising and market research
	M74	Other professional, scientific and technical activities
	M75	Veterinary activities
SECTION N	ADMINISTRATIVE AND SUPPORT SERVICE ACTIVITIES	
	N77	Rental and leasing activities
	N78	Employment activities
	N79	Travel agency, tour operator reservation service and related activities
	N80	Security and investigation activities
	N81	Services to buildings and landscape activities
	N82	Office administrative, office support and other business support activities
SECTION O	PUBLIC ADMINISTRATION AND DEFENCE; COMPULSORY SOCIAL SECURITY	
	O84	Public administration and defence; compulsory social security
SECTION P	EDUCATION	
	P85	Education
SECTION Q	HUMAN HEALTH AND SOCIAL WORK ACTIVITIES	
	Q86	Human health activities
	Q87	Residential care activities
	Q88	Social work activities without accommodation
SECTION R	ARTS, ENTERTAINMENT AND RECREATION	
	R90	Creative, arts and entertainment activities
	R91	Libraries, archives, museums and other cultural activities
	R92	Gambling and betting activities
	R93	Sports activities and amusement and recreation activities
SECTION S	OTHER SERVICE ACTIVITIES	
	S94	Activities of membership organisations
	S95	Repair of computers and personal and household goods
	S96	Other personal service activities
SECTION T	ACTIVITIES OF HOUSEHOLDS AS EMPLOYERS; UNDIFFERENTIATED GOODS- AND SERVICES-PRODUCING ACTIVITIES OF HOUSEHOLDS FOR OWN USE	
	T97	Activities of households as employers of domestic personnel
	T98	Undifferentiated goods- and services-producing activities of private households for own use
SECTION U	ACTIVITIES OF EXTRATERRITORIAL ORGANISATIONS AND BODIES	
	U99	Activities of extraterritorial organisations and bodies

Annex 8 – ISCO-08

This list is identical to the standard code list (SCL – ISCO 08) available in [Eurostat's website](#).

Code	Description
OC1	Managers
OC11	Chief executives, senior officials and legislators
OC12	Administrative and commercial managers
OC13	Production and specialised services managers
OC14	Hospitality, retail and other services managers
OC2	Professionals
OC21	Science and engineering professionals
OC22	Health professionals
OC23	Teaching professionals
OC24	Business and administration professionals
OC25	Information and communications technology professionals
OC26	Legal, social and cultural professionals
OC3	Technicians and associate professionals
OC31	Science and engineering associate professionals
OC32	Health associate professionals
OC33	Business and administration associate professionals
OC34	Legal, social, cultural and related associate professionals
OC35	Information and communications technicians
OC4	Clerical support workers
OC41	General and keyboard clerks
OC42	Customer services clerks
OC43	Numerical and material recording clerks
OC44	Other clerical support workers
OC5	Service and sales workers
OC51	Personal service workers
OC52	Sales workers
OC53	Personal care workers
OC54	Protective services workers
OC6	Skilled agricultural, forestry and fishery workers
OC61	Market-oriented skilled agricultural workers
OC62	Market-oriented skilled forestry, fishery and hunting workers

OC63	Subsistence farmers, fishers, hunters and gatherers
OC7	Craft and related trades workers
OC71	Building and related trades workers, excluding electricians
OC72	Metal, machinery and related trades workers
OC73	Handicraft and printing workers
OC74	Electrical and electronic trades workers
OC75	Food processing, wood working, garment and other craft and related trades workers
OC8	Plant and machine operators, and assemblers
OC81	Stationary plant and machine operators
OC82	Assemblers
OC83	Drivers and mobile plant operators
OC9	Elementary occupations
OC91	Cleaners and helpers
OC92	Agricultural, forestry and fishery labourers
OC93	Labourers in mining, construction, manufacturing and transport
OC94	Food preparation assistants
OC95	Street and related sales and service workers
OC96	Refuse workers and other elementary workers
OC0	Armed forces occupations
OC01	Commissioned armed forces officers
OC02	Non-commissioned armed forces officers
OC03	Armed forces occupations, other ranks

Annex 9 – Language codes

Language	Code
Albanian	ALB
Basque	BAQ
Bosnian	BOS
Bulgarian	BUL
Catalan	CAT
Croatian	HRV
Czech	CZE
Danish	DAN
Dutch; Flemish	DUT
English	ENG
Estonian	EST
Finnish	FIN
French	FRE
German	GER
Greek	GRE
Hungarian	HUN
Icelandic	ICE
Irish	GLE
Italian	ITA
Latvian	LAV
Lithuanian	LIT
Luxembourgish	LTZ
Macedonian	MAC
Maltese	MLT
Norwegian	NOR
Polish	POL
Portuguese	POR
Romanian	RUM
Russian	RUS
Serbian	SRP
Slovak	SLO
Slovenian	SLV
Spanish	SPA
Swedish	SWE
Turkish	TUR
Welsh	WEL

Languages are coded according to the ISO ‘codes for the representation of names of languages’ classification ([ISO 639 alpha-3](#)), at 3-digit level.

[Certain criteria](#) are applied for ISO-639 to define a language, and Eurostat considers defining different languages via the ISO-639 approach as the most appropriate and operational.

The list of language codes accepted by the validation system (for validation, see section 5 of the manual) is available on [Circabc](#).

It is based on https://iso639-3.sil.org/code_tables/639/data.

For some languages, there are two codes: "B" (bibliographic) or "T" (terminology). In this case, we use the bibliographic one.

The code 'sgn' (sign language) is not accepted, rather a specific code, e.g. 'sgs' for German sign language has to be used.

Annex 10 – Comparability with previous waves and changes compared to 2016 AES

2007, 2011 and 2016 AES

Overall, three rounds of the AES were implemented previously:

- 2007 AES – the pilot AES, carried out in the period 2005-2008, was implemented according to EU recommendations, through a gentlemen's agreement.
- 2011 AES – the first AES under EU legislation, carried out between 1 July 2011 and 30 June 2012.
- 2016 AES – the second AES under EU legislation, carried out between 1 July 2016 and 31 March 2017.

Further information on the developments and changes over these three rounds of AES is available in the [2016 AES manual](#), annex 11.

2022 AES

In 2018, Eurostat evaluated the 2016 AES, based on information provided by countries on the overall functioning of the survey as well as along the legal requirements and selected quality criteria. In summary Eurostat concluded that the 2016 AES was a successful exercise but – of course – there is room for improvement. Accordingly, the contents of 2022 were developed with the aim to keep coherence with 2016 AES (i.e. well-functioning parts remain unchanged) and to adapt some variables where deemed necessary, i.e. to change, drop or add some variables, in view of their relevance and functioning. The contents of the 2022 AES were developed with the help of the AES task force.

The following provides information on changes of the requirements of the 2022 AES compared to the 2016 AES.

For further details concerning the correspondence of all variables of the four AES waves (2007, 2011, 2016 and 2022), see the separate Excel file on [CIRCABC](#): 2c - AES variables correspondence (2022, 2016, 2011, 2007).

Changes made between 2016 and 2022 AES

General requirements

As outlined above, the overall approach for 2022 AES was to keep the well working features of the 2016 AES, this also to allow comparisons over time. Accordingly, the requirements for 2022 AES are very much the same as for 2016 AES. The following lists the major changes compared to 2016.

Regulation (EU) 2019/1700⁴ introduced the following major changes for 2022 AES:

- The mandatory age range is 18-69; this extends to age group compared to 2016 AES by those aged 18-24 and 65-69. This extended age coverage was agreed with Member States in return of reduced frequency of the survey.

⁴ For AES legislation, see <https://ec.europa.eu/eurostat/web/education-and-training/legislation>.

- The AES is implemented every six years, compared to every five years under previous AES legislation. This lower frequency was decided together with Member States in return of (1) an increased age coverage for AES and (2) adding every two years variables on participation in formal and non-formal education and training in the last 12 months to the EU-LFS.
- The resident population in private households only should be covered (2016: resident population but data for several countries refer to those living in private households only).

Several survey features are specified at the level of implementing acts, and the following differs in 2022 compared to 2016:

- In case of household sampling, a maximum of two persons aged 18 to 69 per household should be interviewed; however, exceptions are possible if due justification is provided (in the quality report).
- The random selection of the non-formal learning activities is explicitly described.
- The overall fieldwork period is nine months (as in 2016) but within this overall period, the national fieldwork period should not exceed six months wherever possible.
- Data shall be collected by computer-assisted methods; exceptions are possible if due justification is provided (in the quality report).
- For weighting, sex, age and educational attainment level are prioritised.

The following parameters of the survey remain unchanged compared to 2016:

- The reference period for the participation in education and training is the 12 months before the interview. Variables other than participation in learning activities refer to the situation at the time of the interview, just as in 2016 (with few exceptions, for details see the explanatory notes).
- The transmission of microdata to Eurostat is due within six months of the end of the national data collection period.
- The transmission of quality reports to Eurostat is due within three months of the deadline for transmitting the microdata.

List of variables to be transmitted to Eurostat

The majority of 2016 variables is kept unchanged for 2022. The following changes are introduced:

- Standardised variables are covered as set in Regulation (EU) 2019/2181; this mainly means some changes to 2016 variables as already then all standardised variables had been covered.
- The number of non-formal learning activities for which some details are collected is reduced from seven to five.
- Variables on e-learning and guidance are replaced by new or revised variables; these new or revised variables had been cognitively tested.
- The self-perceived main activity status at the beginning of the formal or non-formal learning activity is asked, in order to allow a more precise calculation of participation rates by labour status.
- A ‘main’ variable is added for all multiple-choice variables (such as reasons and outcomes of the learning activities), to increase the analytical value of these variables.
- New variables on motivation and skills gained are added for non-formal learning activities, as well as a variable on the purpose of the informal learning.

- For a few variables, answer categories were revised, e.g. redundant categories dropped or new ones added.

Details on the changes to the list of variables for 2022 AES

The AES TF had the mandate to develop the list of variables for the 2022 AES⁵. The following summarises discussions and conclusions, in order to explain why changes were made.

Socio-economic background and technical variables

Standardised variables

Following the adoption of Regulation 2019/1700, a series of standardised variables as specified in Commission Implementing Regulation (EU) 2019/2181 has to be included in the AES, with the variable names and categories as set in this regulation. The 2016 AES already included the majority of these or similar variables. Thus, 2016 variables were aligned to the new requirements where necessary.

The following lists the standardised variables for 2022 AES, and indicates if variable categories changed compared to 2016. For some variables, only the variable name changed while the concept remained the same. This is not indicated.

Variable	Change compared to 2016	Comment
COUNTRY	No change	
REGION	No change	NUTS as applicable for 2022
DEG_URB	Labels of categories changed	Concept unchanged, comparable
REFYEAR	No change	Needed for age in completed years
REFMONTH	No change	Needed for age in completed years
REFDAY	New variable	Needed for age in completed years
INTMETHOD	Categories changed	Partly comparable
INTPART	New variable	
HHNBPERS	No change	The level of detail is kept as in 2016
HHTYPE	Categories changed	Partly comparable
HHINCOME	Categories changed	
SEX	No change	
BIRTHYEAR	No change	Needed for age in completed years
BIRTHPASS	New variable	Needed for age in completed years
AGE	New variable	Derived from REFYEAR, REFMONTH, REFDAY, BIRTHYEAR and BIRTHPASS
CITIZEN	Additional categories	Comparable

⁵ For further information, see the minutes of the AES TF meetings as well as TF documents available in CIRCABC (restricted access to the AES network).

Variable	Change compared to 2016	Comment
BIRTHPLACE	Additional categories	Comparable
RESTIME	Additional categories	Comparable
MARSTADEFACTO	Labels of categories changed	Concept unchanged, comparable
HATLEVEL	Breakdown by orientation for ISCED level 3, 4 and 5 integrated	Comparable, no age filter for orientation
HATFIELD	No change	Only broad fields, no optional collection of more detailed fields
HATYEAR	No change	
MAINSTAT	Labels of categories changed	Concept unchanged, comparable, full-time/part-time singled out
FTPT	New variable	Was part of MAINSTAT
JOBSTAT	Additional categories	Comparable, fixed-term/permanent contract singled out
PERMJOB	New variable	Was part of JOBSTAT
JOBISCO	No change	
LOCNACE	No change	
LOCSIZEFIRM	Additional categories	Comparable
JOBTIME	No change	
BIRTHFATHER	Additional categories	Comparable
BIRTHMOTHER	Additional categories	Comparable
GENHEALTH	New variable	
GALI	New variable	

Other variables on socio-economic background and other technical variables

Action codes are as follows:

D = dropped

C = changed

A = added

Changes to other background or technical variables were as follows

Variable	Action	Changes compared to 2016	Comment
NFEACTWEIGHT_5	A	Weight for the details of max. 5 NFE, was missing in 2016 regulation	Technical variable added
NFEACTWEIGHT_2	C	Minor change to the variable identifier, aligned with the identifier for the 5 NFE	Technical change

Variable	Action	Changes compared to 2016	Comment
BIRTHMONTH	D	Replaced by BIRTHPASS	Change due to standardised variables
HATVOC	D	The breakdown by orientation is integrated into HATLEVEL	Change due to standardised variables
DROPEduc, DROPEducLEVEL	C	Filter simplified. Categories aligned to the LFS regular module on young people on the labour market.	
DROPEducVOC	D	The breakdown by orientation is integrated into DROPEducLEVEL, just as for HATLEVEL	Technical change

Access to information and guidance

For the 2016 variables on guidance, countries indicated several issues such as too many questions, multi-dimensional categories, overlap between variables, implementation issues. The overall policy need for information on guidance was confirmed but it was acknowledged that the 2016 interpretation of the 2008 Council resolution on lifelong guidance was obviously too broad. Accordingly, the variables were revised, with focus on ‘advice/help received’.

The revised variables were tested, and testing revealed that the concept of ‘guidance’ remains difficult to explain to respondents, due to the rare and often unknown phenomena to which it refers. 2022 AES includes the revised variables, with further improved implementation guidelines.

Variable	Action	Changes compared to 2016	Comment
GUIDEINST	D	Replaced by GUIDE	
GUIDETYPE	D	Replaced by GUIDEINTER, which is adapted to the new variable GUIDE	
GUIDE	N	New variable, focusing on ‘advice/help’, with detailed descriptions of the categories of ‘advice/help’.	Still difficult concept, detailed implementation guidelines provided in the explanatory notes
GUIDESOURCE	C	Too many answer categories, therefore reduced to three most relevant and ‘other’.	
GUIDEINTER	N	New variable, replacing GUIDETYPE	
GUIDEMODE	D	This variable was considered not very relevant/interesting and therefore dropped.	

Formal education and training – FED

Variable	Action	Changes compared to 2016	Comment
FEDLEVEL	C	Standardised variable, breakdown by orientation for ISCED level 3, 4 and 5 integrated	Change due to standardised variables
FEDVOC	D	The breakdown by orientation is integrated into FEDLEVEL	Change due to standardised variables
FEDFIELD	C	<p>The classification to be used is ISCED-F 2013. Overall, broad fields were considered appropriate but some fields should be singled out. The final categories were agreed in TF written procedure.</p> <p>Field categories are the same for FED and NFE, with the exception of ‘generic programmes and qualifications’ which are further detailed for NFE.</p>	
FEDMAINSTAT	A	<p>The labour status at the start of FED is measured, in order to get a more precise picture on participation and labour status. Information on MAINSTAT and EMP12M is not sufficient, as the labour status at the start of FED can be different.</p> <p>The new variable uses simplified categories of MAINSTAT.</p>	
FEDDIST FEDDISTOL FEDOERA FEDOERB	D	<p>The evaluation of the 2016 AES revealed that the e-learning variables should be updated and their content reviewed.</p> <p>New variables on e-learning were developed to replace these variables (see next row).</p>	
FEDPLACE FEDONMAT FEDONTEA FEDONPAR	A	<p>This new set of e-learning variables replaces the variables listed in the previous row.</p> <p>The variables focus on digital content of FED in general, with no filter on distance learning.</p> <p>The new e-learning variables were developed based on national examples. The variables worked well in cognitive testing.</p>	
FEDREASON_06_7	C	The list of categories was considered too long, and some categories were redundant. Therefore, categories 6 and 7 were merged and the label revised.	

Variable	Action	Changes compared to 2016	Comment
FEDREASONMAIN	A	For more meaningful analyses, it is important to know the main reason, in addition to the frequency of each of the reasons. Several national AES already ask for it, and it was agreed that a 'main' variable should be added for all relevant multiple-choice variables.	
FEDPAIDBY_3	C	The label was changed into 'other public and private institutions', in order to better cover possible statements.	
FEDUSEB	D	The evaluation of the 2016 AES revealed that the FEDUSE variables were vague and not very useful. In particular, FEDUSEB was considered critical, as it is hypothetical. It was therefore decided to drop it.	
FEDOUTCOME_6	C	The label was renamed in order to correctly reflect the category.	
FEDOUTCOMEMAIN	A	For more meaningful analyses, it is important to know the main outcome, in addition to the frequency of each of the outcomes. Several national AES already ask for it, and it was agreed that a 'main' variable should be added for all relevant multiple-choice variables.	

Non-formal education and training

Variable	Action	Changes compared to 2016	Comment
NFE	A	New variable, for harmonisation with FED	
NFEACT0x_WORKTIME	C	The categories were aligned with FEDWORKTIME so that a distinction between 'only outside paid working hours' and 'partly during paid working hours' is possible. This distinction is needed to calculate indicators on employer-sponsored education and training correctly.	

Variable	Action	Changes compared to 2016	Comment
NFEACT0x_MAINSTAT	A	<p>The labour status at the start of NFE is measured, in order to get a more precise picture on participation and labour status. Information on MAINSTAT and EMP12M is not sufficient, as the labour start at the start of NFE can be different.</p> <p>The new variable uses simplified categories of MAINSTAT.</p>	This variable is collected for the five NFE so that it can be used to calculate more precise participation rates by labour status.
NFEFIELDx	C	<p>The classification to be used is ISCED-F 2013. Overall, broad fields were considered appropriate but some fields should be singled out. The final categories were agreed in TF written procedure.</p> <p>Field categories are the same for FED and NFE, with the exception of 'generic programmes and qualifications' which are further detailed for NFE.</p>	
NFEDISTx NFEDISTOLx NFEOERAx NFEOERBx	D	<p>The evaluation of the 2016 AES revealed that the e-learning variables should be updated and their content reviewed.</p> <p>New variables on e-learning were developed to replace these variables (see next row).</p>	
NFEPLACEx NFEONMATx NFEONTEAx NFEONPARx	A	<p>This new set of e-learning variables replaces the variables listed in the previous row.</p> <p>The variables focus on digital content of NFE in general, with no filter on distance learning.</p> <p>The new e-learning variables were developed based on national examples. The variables worked well in cognitive testing.</p>	
NFEINITIAx	A	<p>New variable to measure the motivation for the participation.</p> <p>The variable was developed based on national examples and worked well in cognitive testing.</p>	
NFEREASONx_06_7	C	<p>The list of categories was considered to be too long, and some categories were redundant. Therefore, categories 6 and 7 were merged and the label revised.</p>	

Variable	Action	Changes compared to 2016	Comment
NFEREASONMAINx	A	For more meaningful analyses, it is important to know the main reason, in addition to the frequency of each of the reasons. Several national AES already ask for it, and it was agreed that a 'main' variable should be added for all relevant multiple-choice variables.	
NFEPROVIDERx	C	The evaluation of the 2016 AES revealed that the variable has too many categories and that this information is often not known. It was decided to reduce the number of categories.	
NFEPAIDBYx_3	C	The label was changed into 'other public and private institutions', in order to better cover possible statements.	
NFEUSEBx	D	The evaluation of the 2016 AES revealed that the NFEUSE variables were vague and not very useful. In particular, NFEUSEBx was considered critical, as it is hypothetical. It was therefore decided to drop it.	
NFEOUTCOMEx_6	C	The label was renamed in order to correctly reflect the category.	
NFEOUTCOMEMAINx	A	For more meaningful analyses, it is important to know the main outcome, in addition to the frequency of each of the outcomes. Several national AES already ask for it, and it was agreed that a 'main' variable should be added for all relevant multiple-choice variables.	
NFESKILLSMAINx	A	New variable added; variable to the extent possible aligned to similar variables in CVTS.	Asking skills acquired as multiple-choice variable was considered but due to burden control, only the main skill(s) is asked.

Will to participate and reasons for not participating in education and training

Variable	Action	Changes compared to 2016	Comment
DIFFICULTY → WANT NEED → NONEED	C	Overall, the logic of the variables WANT and NONEED is unchanged compared to 2016 AES. Due to implementations issues, the variable identifiers were changed, with the aim to clarify the meaning of the variables.	

Variable	Action	Changes compared to 2016	Comment
DIFFTYPE_03a DIFFTYPE_03b	C	Category 3 covered two different concepts; therefore, it was decided to split into two variables.	
DIFFTYPE_13	A	New category added as considered relevant.	
DIFFTYPE_14	A	New category added as considered relevant.	
DIFFTYPE_06	D	The category 'no access to a computer or internet' is no longer relevant and therefore removed.	

Informal learning (INF)

The AES is the only source of information on informal learning activities. Therefore, it was decided to keep these variables for 2022 AES. In order to better reflect types of informal learning, two categories were merged into a new one.

Variable	Action	Changes compared to 2016	Comment
INFCOMPUTER	D	The category 'learning by using computers (online or offline)' was merged with INFMEDIA into the new variable INFDEVICE	
INFMEDIA	D	The category 'learning through television/radio/video' was merged with INFCOMPUTER into the new variable INFDEVICE	
INFDEVICE	A	New variable 'learning by using electronic devices (online or offline)', merging the 2016 variables INFCOMPUTER and INFMEDIA	
INFPURP	A	Collecting information on the purpose of the informal learning was considered relevant.	

Annex 11 – Online indicators, tables and formulas

AES results are published in [Eurostat's online database](#).

An Excel file with the formulas for each indicator presented on Eurostat's website is annexed to the [reference metadata](#).

The file is stored in [CIRCABC](#).

Annex 12 – Control tables

The structure and contents of the control table is explained in the Excel file [2022 AES Template Controltable.xls](#).

Annex 13 – Quality reporting

A standard quality report has to be submitted using the [ESS-Metadata handler](#) application.

The metadata flow is “AES_NSI_6 (1.0) National metadata about Adult Education Survey”, and a file is available for each country for 2022 AES, with the following name: AES_NSI_6_XX_2022_0000 (XX = country abbreviation, like LU, BE, ...).

The format of the standard quality report follows the requirements outlined in the annex of Commission implementing [regulation \(EU\) 2019/2180](#).

An Excel version of the quality report template is available for information on the requirements for quality reporting: [AES 2022 template quality report](#).

Annex 14 – Legislation

[Regulation \(EU\) 2019/1700](#) of the European Parliament and of the Council of 10 October 2019 establishing a **common framework for European statistics** relating to persons and households, based on data at individual level collected from samples, amending Regulations (EC) No 808/2004, (EC) No 452/2008 and (EC) No 1338/2008 of the European Parliament and of the Council, and repealing Regulation (EC) No 1177/2003 of the European Parliament and of the Council and Council Regulation (EC) No 577/98 (Text with EEA relevance)

Commission Delegated [Regulation \(EU\) 2021/859](#) of 4 February 2021 supplementing Regulation (EU) 2019/1700 of the European Parliament and of the Council by specifying the **number and titles of the variables for the data set in the education and training domain** (Text with EEA relevance)

Commission Implementing [Regulation \(EU\) 2021/861](#) of 21 May 2021 specifying the **technical items of the data set and establishing the technical formats for transmission of information on the organisation of a sample survey in the education and training domain** pursuant to Regulation (EU) 2019/1700 of the European Parliament and of the Council (Text with EEA relevance)

Commission Implementing [Regulation \(EU\) 2019/2181](#) of 16 December 2019 specifying technical characteristics as regards **items common to several datasets** pursuant to Regulation (EU) 2019/1700 of the European Parliament and of the Council. (Text with EEA relevance)

Commission Implementing [Regulation \(EU\) 2019/2180](#) of 16 December 2019 specifying the detailed arrangements and content for the **quality reports** pursuant to Regulation (EU) 2019/1700 of the European Parliament and of the Council. (Text with EEA relevance)

Commission Delegated [Regulation \(EU\) 2020/256](#) of 16 December 2019 supplementing Regulation (EU) 2019/1700 of the European Parliament and of the Council by establishing a **multiannual rolling planning**