

EUROPEAN COMMISSION EUROSTAT

Directorate F: Social statistics

Unit F-3: Labour market and lifelong learning

Continuing Vocational Training Survey (CVTS) 2010 CVTS (CVTS 4) scientific-use files – anonymisation methods

Version 19 November 2018¹

¹ NACE 5 codes added in annex 2.

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Background information

The Continuing Vocational Training Survey (CVTS) is one of the surveys identified in <u>Commission Regulation No 1000/2007</u> amending <u>Commission Regulation (EC) No 831/2002</u> as being eligible for microdata access for scientific purposes.

Commission Regulation (EC) No 831/2002 was repealed in June 2013 by <u>Commission Regulation (EU) No 557/2013</u> on access to confidential data for scientific purposes. CVTS remains eligible for being available for scientific purposes under the new legal framework.

Commission Regulation (EU) No 557/2013 considers two types of confidential data for scientific purposes:

- Secure-use files (non-anonymised data available so far only in Eurostat safe centre)
- Scientific-use files (anonymised data transmitted to researchers on electronic devices)

Article 7(3) of Commission Regulation (EU) No 557/2013 states that: "in cooperation with national statistical authorities, the Commission (Eurostat) shall prepare datasets for research use which target the different types of confidential data for scientific purposes. When preparing a dataset for research use, the Commission (Eurostat) and the national statistical authorities shall take into account the risk and the impact of unlawful disclosure of confidential data."

This document describes the anonymisation methods for the CVTS 4 (reference year 2010) scientific-use files agreed with national statistical authorities which provided the CVTS data.

The CVTS 4 scientific-use files (SUF) are released subject to the agreement of national statistical authorities on the research project submitted by the eligible researcher².

CVTS 4 in the form of secure-use files is not available.

Basic principles for the anonymisation criteria

Although some protection is derived from the fact that CVTS 4 is a sample survey, there is a need for further safeguards in compiling scientific-use files, which enable scientists to access data outside the "safe centres" of official statistics. The methods described below attach particular importance to coarsening those categorical variables that a potential data intruder might use as overlaps with confidential CVTS 4 data.

The anonymisation method consists in a differentiation of the criteria described in annex 1 according to the number of persons employed. A differentiation should indeed be made between enterprises with a high disclosure risk (large enterprises) and enterprises with a low disclosure risk. A threshold of 1000 persons employed is used to define large enterprises on a common basis for all countries³.

Two types of datasets

The criteria 1, 2, 3 and 4 below are common to all countries who agreed to deliver anonymised data to researchers (heading "I. Standard dataset"). An additional dataset might be included for countries allowing for more details. This is described under heading "II. Optional dataset B".

² See the procedure http://ec.europa.eu/eurostat/web/microdata/overview.

³ Please note that the definition of large enterprises chosen for CVTS 4 anonymisation differs from the general definition of large enterprises in business statistics (http://ec.europa.eu/eurostat/statistics-explained/index.php/Glossary:Enterprise_size).

I. STANDARD DATASET

The following four principles are applied to define the standard anonymised dataset for each participating country. This allows providing all data on a set of common but restricted anonymisation criteria.

- 1. The costs variables are anonymised in the following way for all enterprises⁴:
 - The variables C7sub (direct CVT course costs), B5a (contributions) and B5b (receipts) are replaced by a set of five new variables each. The new variables are expressed in relation to
 - total training costs (C7tot+PAC)
 - persons employed (A2tot)
 - participants (CVT courses) (C1tot)
 - training hours (CVT courses) (C3tot)
 - total labour costs (A5)

Example for C7sub: C7subtot (C7sub as a percentage of total training costs), C7subemp (C7sub per person employed), C7subpar (C7sub per participant), C7subhour (C7sub per training hour) and C7sublab (C7sub as a percentage of total labour costs).

- Five new variables are created to reflect the labour costs of participants ('personnel absence cost' PAC=C3tot*A5/A4), i.e. PACtot (PAC as a percentage of total training costs), PACemp (PAC per person employed), PACpar (PAC per participant), PAChour (PAC per training hour) and PAClab (PAC as a percentage of total labour costs).
- C7tot is replaced with a new total (C7tot+PAC = total training costs) and for this new total four new variables are created as described in annex 1 (C7totemp per person employed, C7totpar per participant, C7tothour per training hour and C7totlab as a percentage of total labour costs).
- The components of C7sub (C7a, C7b, C7c, C7d) are provided in percentages of C7sub and of total training costs (C7tot+PAC).
- **2. For all enterprises,** some variables are removed from the dataset, or modified. This concerns the following variables:
 - All ID-variables are removed, except COUNTRY, REFYEAR, WEIGHT and a new modified ENTERPR as sequential number.

⁴ To allow for a coherent set of data for small, medium and large enterprises even though some of these variables could be derived by researchers (according to the availability of e.g. the total number of persons employed).

- **3. For large enterprises** (1000 and more persons employed), the following anonymisation criteria would apply:
 - NACE 5 is used (see annex 2).
 - The value of A2tot is not given but replaced by a unique value (=1000).
 - The values for the following variables are modified as described in annex 1:
 - A3tot, A2m, A2f, A4, A5
 - B2a, B2b, B2c, B2d, B2e
 - C1tot, C2m, C2f
 - C3tot, C3i, C3e
 - F1tot
- **4. For small and medium enterprises** (10-999 persons employed), the criteria as described in '3' above are relaxed as follows.
 - NACE 5 is used (see annex 2).
 - The variable A2tot is kept as total number⁵.
 - The following variables are kept as absolute values:
 - A3tot, A2m, A2f, A4, A5
 - B2a, B2b, B2c, B2d, B2e
 - C1tot, C2m, C2f
 - C3tot, C3i, C3e
 - F1tot

II. OPTIONAL DATASET B

The following dataset can be made available for certain countries where national rules allow for more details (see table 1). This set allows providing additional data using wider anonymisation criteria.

For the optional dataset B, the point of departure is given by the 20 economic sectors of the NACE 20 classification used for drawing the sample for the survey. If on the basis of expansion factors some economic sectors are revealed as particularly vulnerable in a given country, they have to be pooled together with other economic sectors within sections. The exceptions are notified in table 1 below.

OPTIONAL DATASET B FOR SMALL AND MEDIUM ENTERPRISES (10-999 PERSONS EMPLOYED)

- The cost variables are treated as in the standard dataset.
- NACE 20 (see annex 2) is used, or other grouping applicable at national level but more detailed than NACE 5 as explained above.
- The variable A2tot is kept as total number⁴.
- The following variables are kept as absolute values:
 - A3tot, A2m, A2f, A4, A5
 - B2a, B2b, B2c, B2d, B2e
 - C1tot, C2m, C2f
 - C3tot, C3i, C3e
 - F1tot

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⁵ All variables representing shares of A2tot in annex 1 are kept in the file to allow for a unique structure in all anonymised datasets (standard dataset, optional dataset B).

Table 1 - Availability of datasets by country

Country	Standard dataset	Optional dataset B
BE	Y*	N
BG	Υ	Y
CZ	Υ	Y
DK	Υ	Y
DE	Υ	Y*
EE	Υ	N
EL	N	N
ES	Υ	Y
FR	Υ	N
HR	N	N
IT	Υ	Y
CY	Y	N
LV	N	N
LT	Y	N

Country	Standard dataset	Optional dataset B
LU	Υ	N
HU	Υ	N
MT	Y*	N
NL**	N	N
AT	N	N
PL	Υ	N
PT	Υ	N
RO	Y	N
SI	N	N
SK	Y	N
FI	Υ	Υ
SE	Y	N
UK	Y	Y
NO	Y	N

Note: no CVTS 4 data available for IE.

REMARKS FOR RESEARCHERS

NACE groups: NACE 5 and NACE 20 are described in annex 2.

For all variables, values like "9 999 999 998" (not applicable) and "9 999 999 999" (no answer) are kept.

It is reminded that in some countries, non-training enterprises might have costs (contributions).

IVT related data: it is difficult to compare the number of IVT participants (F1tot) all over the year with the number of persons employed at the end of the year. The variable has been anonymised using the latter although the results have no real meaning as such. The data should be used for classification purposes. An additional ratio per CVT participant (C1tot) is also available.

COUNTRY SPECIFIC REMARKS

- **Belgium**: for all enterprises, the variable A2tot is only in classes, i.e. 10-19 (code = 1), 20-49 (code = 2), 50-249 (code = 3), 250-499 (code = 4), 500-999 (code = 5), 1000+ (code = 6) persons employed. Belgium requested to set the information for seven enterprises to missing except for the variables country, weight, A1 (NACE 5), B1a, B1b.
- Germany: 18 NACE groups instead of 20 as follows:
 - (1 B + 5 C19-C23)
 - 2 C10-C12
 - 3 C13-C15
 - 4 C17-C18
 - 6 C24-C25

^{*} Special criteria

^{**} Access to the Dutch CVTS 4 microdata is possible via the "Dutch remote access", for details see http://www.cbs.nl/en-GB/menu/informatie/beleid/zelf-onderzoeken/default.htm

- 7 C26-C28+C33
- 8 C29-C30
- 9 C16+C31-C32
- 10 D-E
- 11 F
- 12 G45
- 13 G46
- 14 G47
- 15 H
- 16 I
- 17 J
- (18 K64-K65 + 19 K66)
- 20 L+M+N+R+S
- **Germany, Finland**: B5a and B5b are set to 0 as they cannot be disseminated. In both countries B5a and B5b are of minor importance.
- **Finland**: Variable F1tot (participation in IVT): the number of IVT participants is an underestimation compared to the information available from a register-based data gathering. The IVT registry is individual based, but, unfortunately, the registry data could not be allocated properly to CVTS-data at enterprise level. Participation rates to IVT are, therefore, not entirely reliable in Finnish data.

CVTS 4 covers about 60 percent of all apprentices in CVTS 4 sample frame (excluding small enterprises and public sector). The difference between register and CVTS4 data is as follows:

Number of apprentices

CVTS 4 = 15 900 apprentices

Register = 26 300 apprentices

Percentage of enterprises offering apprenticeships

- **Finland**: NACE category C13-C15 (manufacturing of textiles, clothing and leather products): this branch is rather small in Finland, especially concerning larger enterprises. The few non-responses among bigger companies have most likely caused underestimation concerning participation rate in training (variables C1tot C3tot) and training costs (C7).
- **Malta**: for the standard dataset, A2tot up to 999 is not given as original data. A2tot is grouped into 3 size groups as follows: 10-49 (code = 1), 50-249 (code = 2) and 250+ (code = 3). All quantitative variables are given as percentages and ratios only.

Annex 1: Variable list and codes for CVTS 4 anonymised datasets

1. Variables collected from all enterprises: sample characteristics

Variable name	Variable Group	Variable description	Treatment	Specification/Description
COUNTRY	ID	Country code		Country specific coding, e.g. for Germany = DE
ENTERPR	ID	Enterprise ID	Replace with a sequential number	Lower bound = 1 Upper bound = 999996
REFYEAR	ID	Reference year		2010
WEIGHT	ID	Weight with two decimal positions – decimal operator "."		>= 1
NACE_SP	ID	Sampling plan NACE – category economic activity	Delete	
SIZE_SP	ID	Sampling plan size group	Delete	
NSTRA_SP	ID	Sampling plan – Number of enterprises in the stratum defined by NACE_SP and SIZE_SP, i.e. the population	Delete	
N_SP	ID	Sampling plan - Number of sampled enterprises from the sample-frame in the stratum defined by NACE_SP and SIZE_SP	Delete	
SUB_SP	ID	Sub-sample indicator, shows if enterprise belongs to sub-sample	Delete	
N_RESPST	ID	Number of responding enterprises in the stratum defined by NACE_SP and SIZE_SP, i.e. the population	Delete	
N_EMPREG	ID	Number of persons employed according to the register	Delete	
RESPONSE	ID	Response indicator		only enterprises with response = 1
PROC	ID	Data collection mode	Delete	
IDLANGUA	ID	Language of data collection	Delete	
IDREGION	ID	Region identification NUTS - level 1	Delete	
EXTRA1	ID	Extra variable 1	Delete	
EXTRA2	ID	Extra variable 2	Delete	
EXTRA3	ID	Extra variable 3	Delete	

2. Variables collected from all enterprises: background data

Variable name	Variable Group	Variable description	Treatment	Specification/Description
A1	Core	Actual NACE code	NACE 5 or NACE 20	NACE 5 for standard dataset NACE 20 for optional dataset B
A2tot	Core	Total number of persons employed on 31-12-2010	Original data up to 999; unique code 1000 if A2tot≥1000	Without changes except for large enterprises (unique code: 1000)
A2m		Total number of males employed on 31-12-2010	Original data if A2tot≤999; if A2tot≥1000: Percentage of all persons employed	999999 = no answer A2mperc = (A2m/A2tot)*100
A2f		Total number of females employed on 31-12-2010	Original data if A2tot≤999; if	999999 = no answer A2fperc = (A2f/A2tot)*100

Variable name	Variable Group	Variable description	Treatment	Specification/Description
			A2tot≥1000: Percentage of all persons employed	
A3tot	Key	Total number of persons employed on 31-12-2009	Original data if A2tot≤999; if A2tot≥1000: Ratio 2009 to 2010	999998 = not applicable A3totratio = A3tot/A2tot
A4	Key	Total number of hours worked in the reference year 2010 by persons employed	Original data if A2tot≤999; if A2tot≥1000: Per person employed	A4ratio = A4/A2tot
A5	Key	Total labour costs (direct + indirect) of all persons employed in the reference year 2010	Original data if A2tot≤999; if A2tot≥1000: Per person employed	A5ratio = A5/A2tot
A6		New or significantly improved goods, services or methods of producing or delivering products and services during the reference year		0 = no 1 = yes 9 = no answer

3. Variables collected from all enterprises: CVT strategies

Variable name	Variable Group	Variable description	Treatment	Specification/Description
A7		Own or shared training centre		0 = no
				1 = yes
				9 = no answer
A8		Specific person or unit within the		0 = no
		enterprise having the responsibility		1 = yes
		for the organisation of CVT		9 = no answer
A9		Assessment of future skill needs of		0 = no
		the enterprise (for the next few years)		1 = yes, not regularly (mainly linked to changes in
				personnel)
				2 = yes, it is part of overall planning process in
				the enterprise
				9 = no answer
(A10)		Reaction to future needs of skills and		
		competences through:		
A10a		Continuing vocational training of		0 = no
		available staff		1 = yes
				9 = no answer
A10b		Recruitment of new staff with the		0 = no
		suitable qualifications, skills and		1 = yes
		competences		9 = no answer
A10c		Recruitment of new staff combined		0 = no
		with specific training of the recruited		1 = yes
		staff		9 = no answer
A10d		Internal reorganisation		0 = no
				1 = yes
				9 = no answer
A11a		Review of future skill and training		0 = no
		needs of individual employees		1 = yes, mainly by way of structured interviews
				2 = yes, but mainly by way of other methods
				9 = no answer

Variable name	Variable Group	Variable description	Treatment	Specification/Description
(A11b)	3100	The review of skill and training needs of individual employees focuses on:		
A11ba		Occupations or a group of occupations		0 = no 1 = yes 8 = not applicable 9 = no answer
A11bb		Skills and competences		0 = no 1 = yes 8 = not applicable 9 = no answer
A11bc		Working tasks and activities		0 = no 1 = yes 8 = not applicable 9 = no answer
A11bd		Formal qualifications		0 = no 1 = yes 8 = not applicable 9 = no answer
A12flag		Type of skills and competences important in the next few years		0 = none of the categories below (A12I = 1) 1 = at least one category from "a" to "k" below 2 = no needs or do not know (A12o = 1) 9 = no answer
		List of skills (multiple responses allowed)		
A12a		General IT skills		0 = no 1 = yes
A12b		IT professional skills		0 = no 1 = yes
A12c		Management skills		0 = no 1 = yes
A12d		Team working skills		0 = no 1 = yes
A12e		Customer handling skills		0 = no 1 = yes
A12f		Problem solving skills		0 = no 1 = yes
A12g		Office administration skills		0 = no 1 = yes
A12h		Foreign language skills		0 = no 1 = yes
A12i		Technical, practical or job-specific skills		0 = no 1 = yes
A12j		Oral or written communication skills		0 = no 1 = yes
A12k		Numeracy and/or literacy skills		0 = no 1 = yes
A12I		None of these		0 = no 1 = yes
A12o		No needs or do not know		0 = no 1 = yes
A12Main		Most important		a-I = category "a" to "I" above 8 = not applicable 9 = no answer
A13		Planning of CVT in the enterprise usually lead to a written training plan or programme		0 = no 1 = yes 9 = no answer
A14		Annual training budget, which usually includes provision for CVT		0 = no 1 = yes 9 = no answer

Variable name	Variable Group	Variable description	Treatment	Specification/Description
A15		National, sectoral or other agreements between the social		0 = no 1 = yes
		partners, which usually cover the		9 = no answer
A1C-		provision of CVT		8 = do not know, not applicable (no agreements)
A16a		Staff representatives/committees usually involved in the management		0 = no 1 = yes
		process of CVT		8 = not applicable (no staff representatives)
		process of OV I		9 = no answer
(A16b)		Aspects covered by staff		
A16ba		representatives/committees		0 = no
ATODA		Objective setting of training		1 = yes
				8 = not applicable
				9 = no answer
A16bb		Criteria for the selection of		0 = no
		participants or specific target groups		1 = yes
				8 = not applicable
				9 = no answer
A16bc		Form/type of training		0 = no
				1 = yes
				8 = not applicable
A 4 01 1				9 = no answer
A16bd		Content of training		0 = no
				1 = yes
				8 = not applicable 9 = no answer
A16be		Budget for training		0 = no
ATOBE		Budget for training		1 = yes
				8 = not applicable
				9 = no answer
A16bf		Selection of external training		0 = no
		providers		1 = yes
				8 = not applicable
				9 = no answer
A16bg		Evaluation/assessment of training		0 = no
		outcomes		1 = yes
				8 = not applicable
(A17)		Sources of information		9 = no answer
A17a		Public information centres/services		0 = no
AITA		and authorities		1 = yes
				9 = no answer
A17b		Private training providers		0 = no
		3 F · · · · ·		1 = yes
				9 = no answer
A17c		Personnel/staff representatives		0 = no
				1 = yes
				9 = no answer
A17d		Others		0 = no
				1 = yes
A17e		Do not use any such source of		9 = no answer 0 = no
AITE		Do not use any such source of information		0 = no 1 = yes
		IIIIOIIIIauoii		9 = no answer
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4. Variables collected from all enterprises: CVT characteristics

Variable name	Variable Group	Variable description	Treatment	Specification/Description
B1a	Core	Provision of internal CVT courses		0 = no 1 = yes
B1b	Core	Provision of external CVT courses		0 = no 1 = yes
B2aflag	Core	Provision of guided on-the-job training		0 = no 1 = yes
B2a		Number of participants in guided on- the job training	Original data if A2tot≤999; if A2tot≥1000: Percentage of all persons employed	999998 = not applicable 999999 = no answer B2aperc = (B2a/A2tot)*100
B2bflag	Core	Provision of job rotation, exchanges, secondments or study visits		0 = no 1 = yes
B2b		Number of participants in job- rotation, exchanges, secondments or study visits	Original data if A2tot≤999; if A2tot≥1000: Percentage of all persons employed	999998 = not applicable 999999 = no answer B2bperc = (B2b/A2tot)*100
B2cflag	Core	Conferences, workshops, trade fairs or lectures	opioyou	0 = no 1 = yes
B2c		Number of participants in conferences, workshops, trade fairs or lectures	Original data if A2tot≤999; if A2tot≥1000: Percentage of all persons employed	999998 = not applicable 999999 = no answer B2cperc = (B2c/A2tot)*100
B2dflag	Core	Learning or quality circles	, ,	0 = no 1 = yes
B2d		Number of participants in learning or quality circles	Original data if A2tot≤999; if A2tot≥1000: Percentage of all persons employed	999998 = not applicable 999999 = no answer B2dperc = (B2d/A2tot)*100
B2eflag	Core	Self-directed learning/e-learning	- F - J	0 = no 1 = yes
B2e		Number of participants in self- directed learning/e-learning	Original data if A2tot≤999; if A2tot≥1000: Percentage of all persons employed	999998 = not applicable 999999 = no answer B2eperc = (B2e/A2tot)*100
ВЗа		Provision of CVT courses for persons employed in the previous year (2009)		0 = no 1 = yes 8 = not applicable 9 = no answer
B4a		Provision of other forms of CVT for persons employed in the previous year (2009)		0 = no 1 = yes 8 = not applicable 9 = no answer
B5aflag		Existence of CVT contributions		0 = no 1 = yes 9 = no answer
B5a		Amount of CVT contributions	Percentage of total training	999999998 = not applicable 999999999 = no answer

Variable name	Variable Group	Variable description	Treatment	Specification/Description
			costs, per person employed, per participant, per training hour, percentage of total labour costs	B5atot = (B5a/(C7tot+PAC))*100 B5aemp = B5a/A2tot B5apar = B5a/C1tot B5ahour = B5a/C3tot B5alab = B5a/A5*100
B5bflag		Existence of CVT receipts	(could also be deleted if the number of cases with receipts is too small)	0 = no 1 = yes 9 = no answer
B5b		Amount of CVT receipts	Percentage of total training costs, per person employed, per participant, per training hour, percentage of total labour costs	999999999 = not applicable 999999999 = no answer B5btot = (B5b/(C7tot+PAC))*100 B5bemp = B5b/A2tot B5bpar = B5b/C1tot B5bhour = B5b/C3tot B5blab = B5b/A5*100
(B6)		Measures from which the enterprise usually benefits from, for the provision of CVT		
B6a		Tax incentives (tax allowances, tax exemptions, tax credits, tax relief, tax deferrals)		0 = no 1 = yes 8 = not applicable 9 = no answer
B6b		Receipts from training funds (national, regional, sectoral)		0 = no 1 = yes 8 = not applicable 9 = no answer
B6c		EU subsidies (e.g. European Social Fund)		0 = no 1 = yes 8 = not applicable 9 = no answer
B6d		Government subsidies		0 = no 1 = yes 8 = not applicable 9 = no answer
B6e		Other sources (e.g. private foundations, revenue for the use of own training resources by or training provision to external bodies/persons)		0 = no 1 = yes 8 = not applicable 9 = no answer
B6f		None of these		0 = no 1 = yes 8 = not applicable 9 = no answer

${\bf 5.\ Variables\ collected\ from\ enterprises\ which\ provided\ CVT\ courses:\ CVT\ participants,}\\ {\bf hours,\ subjects\ and\ providers}$

Variable name	Variable Group	Variable description	Treatment	Specification/Description
C1tot	Key	Total number of CVT course participants	Original data if A2tot≤999; if A2tot≥1000: Percentage of all persons employed	999998 = not applicable C1totperc = (C1tot/A2tot)*100
C2m		Number of CVT course participants – males	Original data if A2tot≤999; if A2tot≥1000: Percentage of male persons employed	999998 = not applicable 999999 = no answer C2mperc = (C2m/A2m)*100
C2f		Number of CVT course participants – females	Original data if A2tot≤999; if A2tot≥1000: Percentage of female persons employed	999998 = not applicable 999999 = no answer C2fperc = (C2f/A2f)*100
C3tot	Key	Paid working time (in hours) spent on all CVT courses	Original data if A2tot≤999; if A2tot≥1000: Per person employed and per participant	999999998 = not applicable C3totemp = C3tot/A2tot C3totpar = C3tot/C1tot
C3i		Paid working time (in hours) for internal CVT courses	Original data if A2tot≤999; if A2tot≥1000: Percentage of paid working time on all CVT courses	999999998 = not applicable 999999999 = no answer C3iperc = (C3i/C3tot)*100
C3e		Paid working time (in hours) for external CVT courses	Original data if A2tot≤999; if A2tot≥1000: Percentage of paid working time on all CVT courses	999999998 = not applicable 9999999999 = no answer C3eperc = (C3e/C3tot)*100
C4		Share of training hours spent on health and safety at work		0-100 = Health and safety at work 998 = not applicable 999 = no answer
C5flag		Skills targeted by CVT courses		0 = none of the categories below (C5I = 1) 1 = at least one category from "a" to "k" 8 = not applicable 9 = no answer
		List of skills (multiple responses allowed)		
C5a		General IT skills		0 = no 1 = yes 8 = not applicable
C5b		IT professional skills		0 = no 1 = yes 8 = not applicable
C5c		Management skills		0 = no 1 = yes

C5d	Group		Specification/Description
C5d			8 = not applicable
1		Team working skills	0 = no
ı			1 = yes
05		0 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	8 = not applicable
C5e		Customer handling skills	0 = no 1 = yes
			8 = not applicable
C5f		Problem solving skills	0 = no
		1 Tobiciii dolviiig didiid	1 = yes
			8 = not applicable
C5g		Office administration skills	0 = no
			1 = yes
			8 = not applicable
C5h		Foreign language skills	0 = no
			1 = yes
			8 = not applicable
C5i		Technical, practical or job-specific	0 = no
		skills	1 = yes
OF:		Oral or written communication skills	8 = not applicable
C5j		Oral or written communication skills	0 = no 1 = yes
			8 = not applicable
C5k		Numeracy or literacy skills	0 = no
J		ivanieracy of incracy skiiis	1 = yes
			8 = not applicable
C5I		Other (none of these)	0 = no
1			1 = yes
			8 = not applicable
C5main		Most important	a-l = category a to l above
			8 = not applicable
			9 = no answer
C6flag		Providers (external CVTS courses)	0 = none of the categories below (C6g = 1)
			1 = at least one category from "a" to "f" below
			8 = not applicable
			9 = no answer (no answer to any category "a" to "g")
C6a		Schools, colleges, universities and	0 = no
Coa		other higher education institutions	1 = yes
		outer riigher education institutions	8 = not applicable
C6b		Public training institutions (financed	0 = no
1		or guided by the government; e.g.	1 = yes
		adult education centres)	8 = not applicable
C6c		Private training companies	0 = no
			1 = yes
			8 = not applicable
C6d		Private companies whose main	0 = no
		activity is not training (e.g. equipment	1 = yes
		suppliers , parent / associate	8 = not applicable
CGo		companies)	0-20
C6e		Employers' associations, chambers	0 = no 1 = yes
		of commerce, sector bodies	8 = not applicable
C6f		Trade unions	0 = no
501		Trade dillone	1 = yes
			8 = not applicable
C6g		Other training providers	0 = no
, - 9			1 = yes
			8 = not applicable
C6main		Most important	a-g = categories a to g above

Variable name	Variable Group	Variable description	Treatment	Specification/Description
				8 = not applicable 9 = no answer

6. Variables collected from enterprises which provided CVT courses: CVT costs

Variable name	Variable Group	Variable description	Treatment	Specification/Description
C7aflag		Existence of fees and payments for courses for persons employed		0 = no 1 = yes 8 = not applicable 9 = no answer
C7a		CVT course costs - fees and payments for courses for persons employed (in euros)	Percentage of subtotal costs (C7sub) and total training costs (C7tot+PAC)	999999999 = not applicable 999999999 = no answer C7apercC7s = (C7a/C7sub)*100 C7apercC7t = (C7a/(C7tot+PAC))*100
C7bflag		Existence of travel and subsistence payments		0 = no 1 = yes 8 = not applicable 9 = no answer
C7b		CVT course costs - travel and subsistence payments (in euros)	Percentage of subtotal costs (C7sub) and total training costs (C7tot+PAC)	999999998 = not applicable 999999999 = no answer C7bpercC7s = (C7b/C7sub)*100 C7bpercC7t = (C7b/(C7tot+PAC))*100
C7cflag		Existence of labour costs of internal trainers		0 = no 1 = yes 8 = not applicable 9 = no answer
C7c		CVT course costs - labour costs of internal trainers (in euros)	Percentage of subtotal costs (C7sub) and total training costs (C7tot+PAC)	999999999 = not applicable 999999999 = no answer C7cpercC7s = (C7c/C7sub)*100 C7cpercC7t = (C7c/(C7tot+PAC))*100
C7dflag		Existence of training centre and teaching materials for CVT courses		0 = no 1 = yes 8 = not applicable 9 = no answer
C7d		CVT course costs - training centre, or rooms and teaching materials for CVT courses (in euros)	Percentage of subtotal costs (C7sub) and total training costs (C7tot+PAC)	999999999 = not applicable 9999999999 = no answer C7dpercC7s = (C7d/C7sub)*100 C7dpercC7t = (C7d/(C7tot+PAC))*100
C7sflag	14	"Sub-total only" flag	Delete	
C7sub	Key	CVT costs sub-total (in euros)	Percentage of total training costs, per person employed, per participant, per training hour, percentage of total labour costs	999999998 = not applicable C7subtot= (C7sub/(C7tot+PAC))*100 C7subemp = C7sub/A2tot C7subpar = C7sub/C1tot C7subhour = C7sub/C3tot C7sublab = C7sub/A5*100

Variable name	Variable Group	Variable description	Treatment	Specification/Description
C7tot	Key	Total cost CVT	Replaced with a new total (total training cost = C7tot+PAC), per person employed, per participant, per training hour, percentage of total labour costs	999999998 = not applicable C7totemp = (C7tot+PAC)/A2tot C7totpar = (C7tot+PAC)/C1tot C7tothour = (C7tot+PAC)/C3tot C7totlab = (C7tot+PAC)/A5*100
PAC	Key	Personal absence cost - to be calculated (PAC = C3tot*A5/A4) (in euros)	Percentage of total training costs, per person employed, per participant, per training hour, percentage of total labour costs	999999998 = not applicable PACtot = (PAC/(C7tot+PAC))*100 PACemp = PAC/A2tot PACpar = PAC/C1tot PAChour = PAC/C3tot PAClab = PAC/A5 *100

${\bf 7.\ Variables\ collected\ from\ enterprises\ which\ provided\ CVT\ courses\ or\ other\ forms\ of\ CVT\ cullity, outcomes\ and\ difficulties}$

Variable name	Variable Group	Variable description	Treatment	Specification/Description
(D1)		Aspects considered to ensure the quality of CVT		
D1a		Certification of external providers (e.g. use of national registers)		0 = no 1 = yes 8 = not applicable 9 = no answer
D1b		Continuous training of internal trainers		0 = no 1 = yes 8 = not applicable 9 = no answer
D1c		Continuing vocational training and certification is based on national/sectoral recognised standards or frameworks		0 = no 1 = yes 8 = not applicable 9 = no answer
D1d		Others		0 = no 1 = yes 8 = not applicable 9 = no answer
D1e		Does not consider any particular aspect to ensure the quality of CVT		0 = no 1 = yes 8 = not applicable 9 = no answer
D2a		Assessment and/or documentation of the outcomes of CVT activities		0 = no, confirmation participation sufficient 1 = yes, for all activities 2 = yes, for some activities 8 = not applicable 9 = no answer
(D2b) D2ba		Forms of assessment Certificate after written or practical test		0 = no 1 = yes

Band applicable Satisfaction survey amongst D2bb Satisfaction survey amongst	Variable name	Variable Group	Variable description	Treatment	Specification/Description
D2bb Satisfaction survey amongst 0 = no					
D2bc Assessment of participants' 0 = no answer D2bc Assessment / measurement of the impact of training on performance after training 1 = yes 8 = not applicable 9 = no answer D2bd Assessment / measurement of the impact of training on performance of relevant department or the whole enterprise 9 = no answer D2bd Individual in the provision of CVT activities in the reference year of training was appropriate to the enterprise 9 = no answer D3a No limiting factors: the level of training was appropriate to the enterprise 3 = not applicable 9 = no answer D3b Preferred to recruit individuals with the required skills and competencies 1 = yes 8 = not applicable 9 = no answer D3c Difficulties in assessing training 0 = no no 1 = yes 8 = not applicable 9 = no answer D3d Lack of suitable CVT courses in the market 1 = yes 8 = not applicable 9 = no answer D3d Lack of suitable CVT courses in the market 1 = yes 8 = not applicable 9 = no answer D3d High costs of CVT courses 0 = no no 1 = yes 8 = not applicable 9 = no answer D3d Higher focus on IVT provision than on CVT 1 = yes 8 = not applicable 9 = no answer D3d Major efforts in CVT realised in recent years 8 = not applicable 9 = no answer D3d No available time for participation in CVT 1 = yes 8 = not applicable 9 = no answer D3d No available time for participation in CVT 1 = yes 8 = not applicable 9 = no answer D3h Other reasons 0 = no no answer					
B = not applicable 9 = no answer	D2bb				
9 - no answer			participants		
D2bc Assessment of participants' behaviour/performance after training 1 = yes 8 = not applicable 9 = no answer 0 = no 1 = yes 8 = not applicable 9 = no answer 0 = no 1 = yes					
Dehaviour/performance after training 1 = yes 8 = not applicable 9 = no answer 0 = no					
D2bd Assessment / measurement of the impact of training on performance of relevant department or the whole enterprise 9 = no answer (D3) Factors limiting the provision of CVT activities in the reference year D3a No limiting factors: the level of training was appropriate to the enterprise 8 = not applicable 9 = no answer D3b Preferred to recruit individuals with the required skills and competencies 1 = yes 8 = not applicable 9 = no answer D3c Difficulties in assessing training 0 = no 1 = yes 8 = not applicable 9 = no answer D3d Lack of suitable CVT courses in the market 0 = no 1 = yes 8 = not applicable 9 = no answer D3e High costs of CVT courses in the market 0 = no 1 = yes 8 = not applicable 9 = no answer D3f Higher focus on IVT provision than on CVT 1 = yes 8 = not applicable 9 = no answer D3g Major efforts in CVT realised in recent years 1 = yes 8 = not applicable 9 = no answer D3g Major efforts in CVT realised in recent years 1 = yes 8 = not applicable 9 = no answer D3h No available time for participation in CVT 1 = yes 8 = not applicable 9 = no answer D3h No available time for participation in CVT 1 = yes 8 = not applicable 9 = no answer D3h Other reasons 0 Other reasons 1 = yes	D2bc				
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D2bd Assessment / measurement of the impact of training on performance of relevant department or the whole enterprise 8 = not applicable 9 = no answer					8 = not applicable
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CVT	D3h		No available time for participation in		
8 = not applicable 9 = no answer					
D3i Other reasons 0 = no 1 = yes					
D3i Other reasons 0 = no 1 = yes					
1 = yes	D3i		Other reasons		
9 = no answer					

$\pmb{8}.$ Variables collected from non-training enterprises: reasons for the non-provision of CVT activities

Variable name	Variable Group	Variable description	Treatment	Specification/Description
(E1)		Reasons for non-provision of CVT activities in the reference year		
E1a		The existing skills and competences were appropriate to the current needs		0 = no 1 = yes 8 = not applicable 9 = no answer
E1b		Preferred to recruit individuals with the required skills and competencies		0 = no 1 = yes 8 = not applicable 9 = no answer
E1c		Difficulties in assessing training needs		0 = no 1 = yes 8 = not applicable 9 = no answer
E1d		Lack of suitable CVT courses in the market		0 = no 1 = yes 8 = not applicable 9 = no answer
E1e		High costs of CVT courses		0 = no 1 = yes 8 = not applicable 9 = no answer
E1f		Higher focus on IVT provision than on CVT		0 = no 1 = yes 8 = not applicable 9 = no answer
E1g		Major efforts in CVT realised in recent years		0 = no 1 = yes 8 = not applicable 9 = no answer
E1h		No available time for participation in CVT		0 = no 1 = yes 8 = not applicable 9 = no answer
E1i		Other reasons		0 = no 1 = yes 8 = not applicable 9 = no answer

9. Variables collected from all enterprises: IVT

Variable name	Variable Group	Variable description	Treatment	Specification/Description
F1tot	Core	Total number of apprentices in the enterprise during the reference year (2010)	Original data if A2tot≤999; if A2tot≥1000: Per person employed and per participant	F1totratioA2 = F1tot/A2tot F1totratioC1 = F1tot/C1tot (see the section 'remarks for researchers' above for the use of this variable)
(F2)		Reasons to offer IVT		
F2a		To qualify future employees according to the needs of the firm		0 = no 1 = yes 8 = not applicable 9 = no answer
F2b		To choose among the best apprentices for future employment after completion of apprenticeship		0 = no 1 = yes 8 = not applicable 9 = no answer
F2c		To avoid possible mismatch with enterprise needs in case of external recruitment		0 = no 1 = yes 8 = not applicable 9 = no answer
F2d		To make use of the productive capacities of apprentices already during their vocational training		0 = no 1 = yes 8 = not applicable 9 = no answer
F2e		None of these		0 = no 1 = yes 8 = not applicable 9 = no answer

Annex 2: NACE Rev. 2 groups

NACE 5 classification of enterprises (also used for CVTS 4 data dissemination on Eurostat website)

	NACE Rev. 2	
1	B, C, D, E	Industry (except construction)
2	F	Construction
3	G, H, I	Wholesale and retail trade, transport, accommodation and
		food service activities
4	J, K	Information and communication; financial and insurance
		activities
5	L, M, N, R, S	Real estate activities; professional, scientific and technical
		activities; administrative and support service activities;
		arts, entertainment and recreation; other service activities

NACE 20 classification of enterprises

1	В
2	C10-C12
3	C13-C15
4	C17-C18
5	C19-C23
6	C24-C25
7	C26-C28+C33
8	C29-C30
9	C16+C31-C32
10	D-E
11	F
12	G45
13	G46
14	G47
15	Н
16	I
17	J
18	K64-K65
19	K66
20	L+M+N+R+S

For details on NACE Rev. 2 see

 $\underline{http://epp.eurostat.ec.europa.eu/portal/page/portal/nace_rev2/introduction}$