ANNEXES

ANNEX 1.

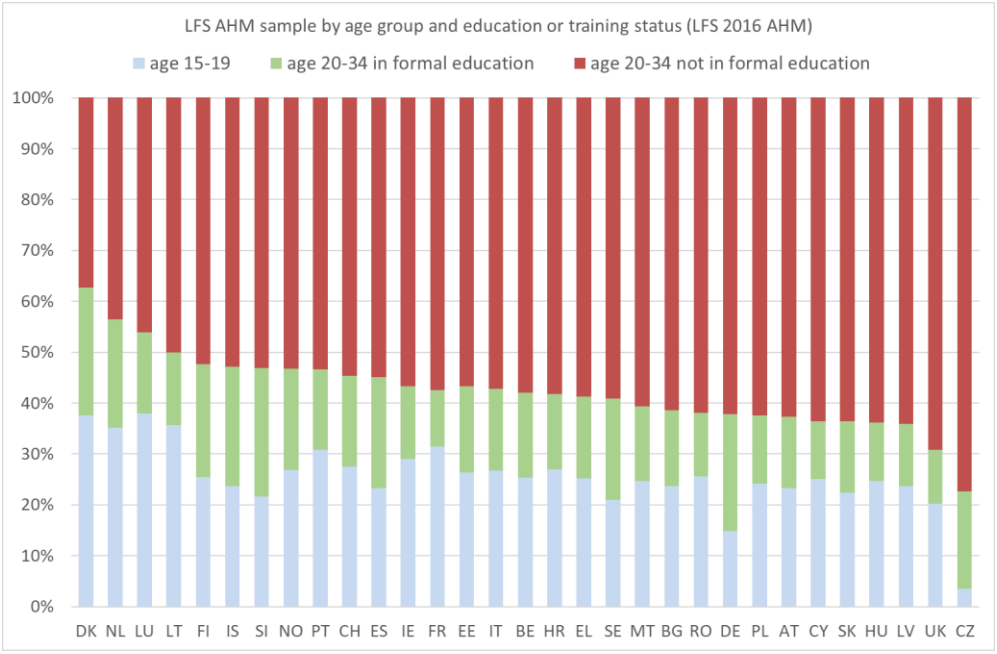
Demarcation of the population

The analysis carried out in the report covers individuals aged 20 to 34, who were not in further formal education. Individuals aged 20 to 34 in non-formal training are included.

The sample loss of excluding individuals aged 15 to 19, as well as those aged 20 to 34 who are in formal education, would amount to 42%. Sample loss is most limited for the Czech Republic (22.6%) and largest for Denmark (62.3%) (Figure A.1). Additional analyses (Figure A.2) revealed that the employment rate of those in training exceeds the employment rate of those not in formal education or training. For most countries, the overall incidence of WBL increases as the population narrows. Only in Finland and Sweden does the exclusion of respondents aged 15 to 19 not raise the WBL-incidence. Malta is the only country where the exclusion of respondents in formal education does not raise the WBL-incidence rate (Figure A.3).

Figure A.1 shows the total LFS 2016 AHM sample by age group and education status. It shows that the largest sample reduction occurs in Denmark, the Netherlands and Luxembourg, where both exclusion conditions reduce the sample by more than half.

Figure A.1. **EU-LFS 2016 AHM sample by age group and formal education status**

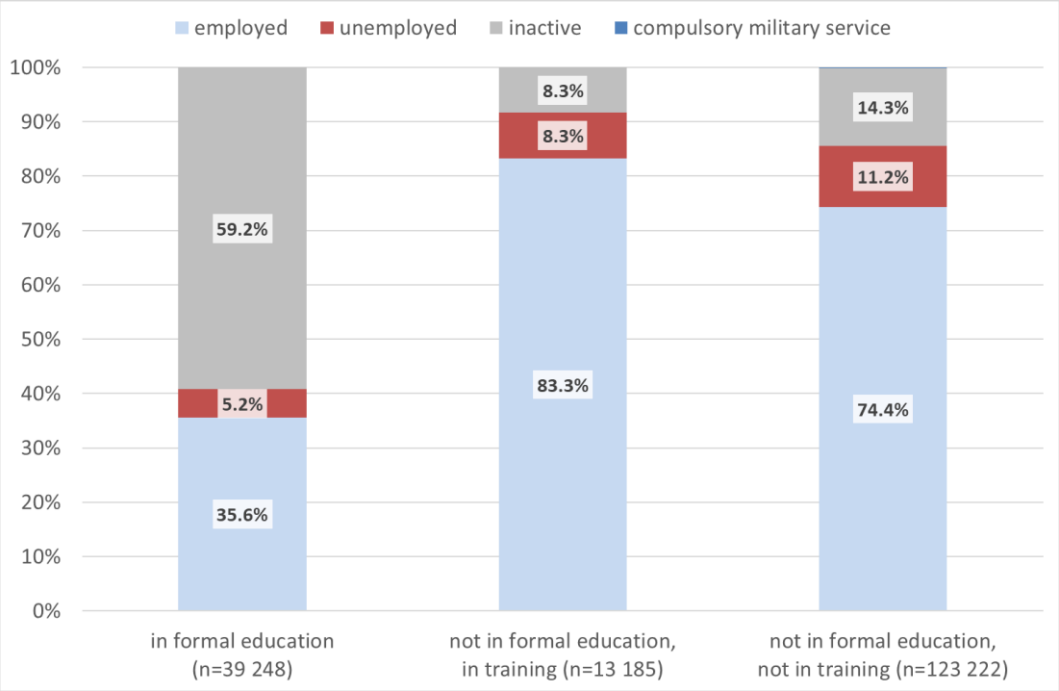


Source: Eurostat EU-LFS 2016 AHM microdata; own calculations.

A1.1. Employment rate of respondents who are in training, but not in formal education

Figure A.2 examines the ILO working status of individuals aged 20 to 34 and differentiates between those in formal education, those not in formal education but in training and those not in formal education nor in training. It shows that the employment rate of those in formal education is well below that of individuals not in formal education (the latter being in training or not). In addition, the fact of being still in education may change the eventual highest education attained and its characteristics. Therefore, it was decided to exclude those in formal education from the analysis.

Figure A.2. **ILO working status by education and training status (LFS AHM 2016, aged 20-34)**



Source: Eurostat EU-LFS 2016 AHM microdata.

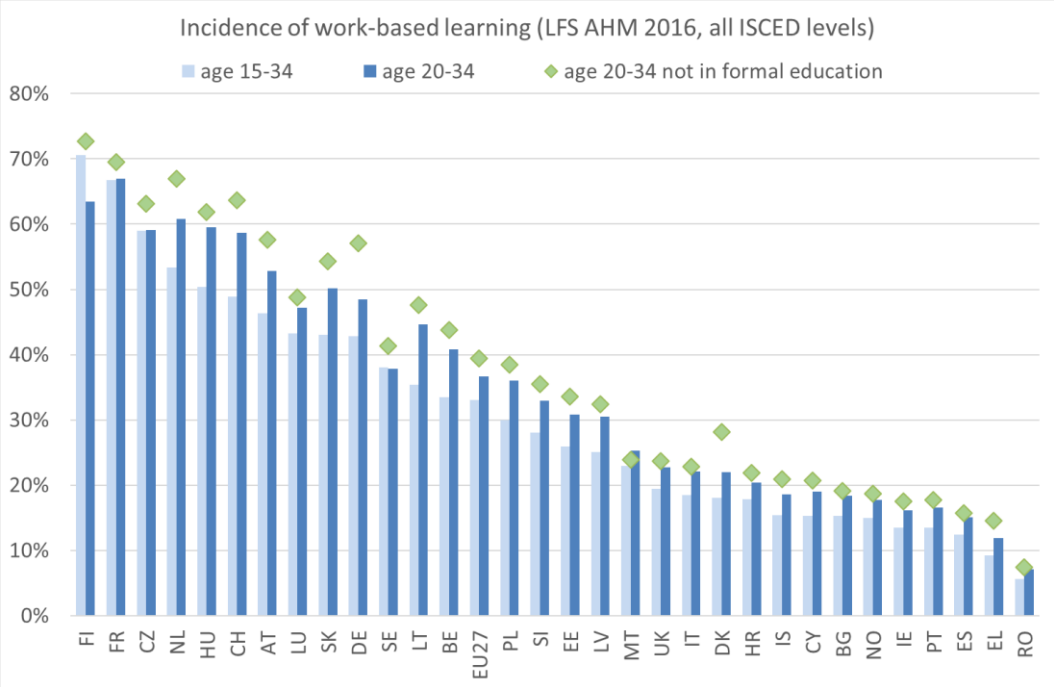
A1.2. WBL and demarcation of population

Figure A.3 compares the incidence of work-based learning (across all ISCED levels) for three different populations:

(a) respondents aged 15 to 34;
(b) respondents aged 20 to 34, thus excluding all respondents aged 15 to 19;
(c) respondents aged 20 to 34 who are not in formal education.

Figure A.3 shows that, for most countries, the overall incidence of WBL increases as the population narrows. Only in Finland and Sweden does the exclusion of respondents aged 15 to 19 not increase the WBL-incidence. Malta is the only country where the exclusion of respondents in formal education does not increase the WBL-incidence rate.

Figure A.3. **Prevalence of work-based learning according to age group and education status (LFS AHM 2016)**



Source: Eurostat EU-LFS 2016 AHM microdata.

ANNEX 2.

The prevalence of work-based learning

Table A.1. **Prevalence of traineeships (EU-LFSAHM 2016 def.) and apprenticeships (EU-LFS AHM 2016 def.) as part of the highest level educational attainment (young people aged 20-34 and no longer in formal education)**

	Traineeship (EU-LFS AHM 2016 def.)	Apprenticeship (EU-LFS AHM 2016 def.)
AT	15.1%	42.5%
BE	38.9%	4.8%
BG	18.9%	
CH	9.5%	54.2%
CY	15.6%	4.5%
CZ	42.6%	20.4%
DE	6.6%	50.4%
DK	9.7%	15.9%
EE	30.3%	3.2%
EL	5.7%	8.7%
ES	12.9%	2.3%
FI	64.9%	7.8%
FR	46.0%	23.5%
HR	15.7%	5.0%
HU	53.5%	8.4%
IE	10.4%	4.8%
IS	15.7%	
IT	22.0%	0.7%
LT	43.2%	3.0%
LU	31.1%	17.5%
LV	30.6%	1.0%
MT	14.3%	9.6%
NL	38.4%	14.0%
NO	3.9%	8.7%
PL	29.5%	9.0%
PT	16.7%	0.8%
RO	7.0%	0.4%
SE	38.6%	2.2%
SI	25.5%	10.0%
SK	41.1%	12.8%
UK	11.1%	12.5%
Total	22.3%	16.4%
EU-27	24.9%	16.5%

NA: no respondents available	(c): confidential	(a): low reliability, too low to be published	(u): low reliability, flagged publication

NB: * High item non-response (>15%), results to be treated with caution.

Source: Eurostat EU-LFS 2016 AHM microdata, own calculations.

ANNEX 3.

Data comparison across sources

Table A.2 compares two possible measures of prevalence of work-based learning: the share of graduates from upper secondary vocational education with work-based learning experiences as resulting from the LFS 2016 AHM; and consideration of another indicator typically used. This is based on the Eurostat UNESCO OECD data collection on formal education and expresses the share of students in combined work- and school-based vocational programmes (as opposed to those in mainly or solely school-based vocational programmes) as a percentage of all vocational upper secondary students. A vocational programme is classified as combined work- and school-based if 25% or more of the curriculum is presented outside the school environment; otherwise, it is classified as school-based. Programmes where the work-based component accounts for 90% or more of the curriculum are excluded. Under these conditions, apprenticeships are included in the work-based IVET component (UOE, 2016) ([1]). The UOE indicator is also traditionally used by Cedefop in statistical overviews (Cedefop, 2019, indicator No 1020 *IVET work-based students as % of all vocational upper secondary*) ([2]).

The LFS indicator counts graduates (rather than students) and is restricted to work-based learning as part of the highest level of education attained. A number of reasons could explain different levels of prevalence resulting from UOE and AHM 2016 data. For instance, both early school leaving and transition to higher education levels will cause the LFS indicator to deviate from the UOE based indicator:

(a) to the extent that participants in work-based programmes in vocational upper secondary education do not graduate, the proportion of WBL participants (UOE data) will tend to exceed the proportion of WBL graduates (LFS AHM 2016);

([1]) UOE (2016). *UOE data collection on formal education, manual on concepts, definitions and classifications*. http://ec.europa.eu/eurostat/statistics-explained/index.php/UNESCO_OECD_Eurostat_(UOE)_joint_data_collection_%E2%80%93_methodology

([2]) Cedefop (2019). *On the way to 2020: data for vocational education and training policies. Country statistical overviews: 2019 update*. Luxembourg: Publications Office. http://www.cedefop.europa.eu/en/publications-and-resources/publications/5561

(b) to the extent that graduates from work-based programmes in vocational secondary education participate and graduate from tertiary education, the proportion of WBL graduates (LFS AHM 2016) will shrink, also relative to the UOE based indicator.

Both absolute and relative differences between LFS and UOE have been considered. Absolute differences larger than 25 percentage points or relative differences larger than 100% are marked in green (when LFS>UOE) or red (UOE>LFS). This comparison shows that the prevalence of work-based learning in the LFS AHM 2016 module strongly deviates from the UOE data in most countries.

In most countries, the proportion of WBL graduates (LFS AHM 2016) exceeds the proportion of WBL participants (UOE data) in vocational upper secondary education. In 12 countries, the share of WBL graduates (LFS 2016 AHM) is more than double the share of WBL participants (UOE data). In seven countries where, according to UOE data, no students are enrolled in work-based learning in vocational upper secondary (ISCED 3-4), the share of WBL graduates (LFS 2016 AHM) exceeds 20 percentage points. This can be explained by the fact that the notion of ‘work experience’ in the LFS 2016 AHM variables is different from the concept of ‘combined work- and school-based’ education, which is used in the UOE data collection.

In contrast, in Denmark, the proportion of WBL participants (UOE data) largely exceeds the proportion of WBL graduates (LFS AHM 2016) in vocational upper secondary education. The data for Latvia are consistent with recent developments in work-based learning in initial vocational education as a national policy priority: both according to UOE and LFS AHM data, all IVET students are reported to be enrolled in combined work- and school-based programmes. In Greece, Norway and the UK, the proportion of WBL graduates (LFS AHM 2016) is more in line with the proportion of WBL participants (UOE data) for respondents aged 20 to 34, than for respondents aged 15 to 19.

Table A.**2**. **Prevalence of work-based learning in upper secondary vocational education: comparing UOE data to LFS AHM data**

	UOE data	LFS AHM 2016 data			Absolute difference			Relative difference		
	Students in combined work- and school-based vocational programmes (upper secondary education, ISCED3)	*Graduates with at most an upper secondary vocational qualification having experience work-based as part of it (ISCED 3)*								
		aged 15-34	aged 15-19	aged 20-34						
	a	b	c	d	b-a	c-a	d-a	(b-a)/a	(c-a)/a	(d-a)/a
BE	5.9%	53.5%	37.0%	54.9%	47.6%	31.1%	49.0%	807%	627%	831%
BG	0.0%	22.8%	15.4%	23.1%	22.8%	15.4%	23.1%			
CZ (*)	8.8%	66.3%	71.9%	66.1%	57.5%	63.1%	57.3%	653%	817%	651%
DK	80.0%	51.1%	43.2%	51.2%	-28.8%	-36.8%	-28.8%	-36%	54%	-36%
DE(*)	87.1%	92.4%	92.2%	92.4%	5.3%	5.1%	5.3%	6%	106%	6%
EE	2.2%	61.6%	69.0%	61.3%	59.4%	66.8%	59.1%	2692%	3128%	2680%
IE (*)	0.0%				0.0%	0.0%	0.0%			
EL	0.0%	9.8%	0.0%	10.2%	9.8%	0.0%	10.2%			
ES	2.0%	26.7%	30.0%	26.6%	24.8%	28.0%	24.6%	1253%	1517%	1244%
FR	24.2%	78.0%	84.8%	77.1%	53.8%	60.6%	53.0%	223%	351%	219%
HR	0.0%	27.7%	32.3%	27.2%	27.7%	32.3%	27.2%			
IS	45.4%	58.7%		58.7%	13.4%	-45.4%	13.4%	29%	0%	29%
IT	0.0%	33.3%	54.1%	32.4%	33.3%	54.1%	32.4%			
CY	0.0%	49.4%	42.8%	50.1%	49.4%	42.8%	50.1%			
LV	100.0%	59.5%	100.0%	59.2%	-40.5%	0.0%	-40.8%	-40%	100%	-41%
LT	0.0%	66.4%	100.0%	66.3%	66.4%	100.0%	66.3%			
LU	21.4%	54.1%		54.1%	32.7%	-21.4%	32.7%	153%	0%	153%
HU	100.0%	91.0%	97.6%	90.7%	-9.0%	-2.4%	-9.3%	-9%	98%	-9%
MT	22.5%	46.7%	55.7%	45.3%	24.3%	33.2%	22.8%	108%	248%	102%
NL	20.4%	77.6%	72.9%	77.8%	57.2%	52.5%	57.4%	280%	357%	281%
NO	32.9%	29.1%	0.0%	29.3%	-3.8%	-32.9%	-3.6%	-11%	0%	-11%
AT	46.0%	83.8%	64.4%	86.2%	37.8%	18.4%	40.2%	82%	140%	87%
PL	15.5%	54.5%	68.0%	54.2%	39.0%	52.4%	38.7%	251%	438%	249%
PT	0.0%	36.6%	50.0%	35.8%	36.6%	50.0%	35.8%			

	UOE data	LFS AHM 2016 data			Absolute difference			Relative difference		
	Students in combined work- and school-based vocational programmes (upper secondary education, ISCED3)	*Graduates with at most an upper secondary vocational qualification having experience work-based as part of it (ISCED 3)*								
		aged 15-34	aged 15-19	aged 20-34						
	a	b	c	d	b-a	c-a	d-a	(b-a)/a	(c-a)/a	(d-a)/a
RO	7.9%	10.1%	7.5%	10.2%	2.2%	-0.4%	2.4%	28%	95%	30%
SI	0.0%	38.9%	56.3%	37.9%	38.9%	56.3%	37.9%			
SK	10.5%	66.3%	61.0%	66.5%	55.8%	50.5%	56.0%	531%	580%	532%
FI	12.9%	84.4%	91.6%	84.0%	71.5%	78.7%	71.1%	554%	710%	552%
SE	4.5%	61.1%	49.2%	61.4%	56.7%	44.7%	56.9%	1266%	1099%	1272%
CH	90.0%	93.2%	95.3%	93.1%	3.2%	5.3%	3.1%	4%	106%	3%
UK	37.5%	42.8%	23.7%	44.9%	5.3%	-13.9%	7.4%	14%	63%	20%

NB: * High item non-response (>15%), results to be treated with caution.
Absolute differences larger than 25 percentage points or relative differences larger than 100% are marked in green (when LFS>UOE) or red (UOE>LFS).

Source: Eurostat EU-LFS 2016 AHM microdata, own calculations.

ANNEX 4.

Prevalence of work experiences by type at the highest level of education attained

Table A.3. **Prevalence of work experiences at the highest level of education attained by type, 2016**

	ISCED 2 or below			ISCED 3-4gen			ISCED 3-4voc				ISCED 5-8			
	no work exp.	work outside curric.	traineeship/ apprenticeship	no work exp.	work outside curric.	traineeship/ apprenticeship	no work exp.	work outside curric.	traineeship	apprentice-ship	no work exp.	work outside curric.	traineeship	apprentice-ship
BE	72.7%	11.7%	15.5%	61.9%	28.2%	9.9%	29.5%	13.4%	50.6%	6.5%	25.0%	20.7%	49.9%	4.3%
BG	97.8%	1.8%	0.5%	89.8%	7.0%	3.2%	73.9%	3.7%	22.4%	NA	38.0%	20.8%	41.2%	NA
CZ	NA	NA	NA	60.5%	31.1%	8.4%	18.4%	14.2%	42.1%	25.3%	14.1%	25.5%	48.6%	11.9%
DK	58.6%	30.6%	10.8%	24.8%	68.3%	6.9%	28.2%	19.0%	6.1%	46.7%	16.3%	60.9%	16.3%	6.5%
DE	93.7%	4.2%	2.0%	76.2%	20.1%	3.8%	6.8%	7.0%	3.5%	82.6%	47.5%	24.8%	15.3%	12.5%
EE	86.9%	5.6%	7.6%	80.6%	18.1%	1.2%	36.3%	7.3%	52.1%	4.3%	22.4%	33.6%	39.3%	4.7%
IE	90.1%	8.4%	1.5%	76.6%	21.2%	2.2%	50.5%	17.7%	14.5%	17.3%	40.4%	40.3%	15.7%	3.5%
EL	83.2%	12.2%	4.6%	85.8%	14.2%	NA	68.4%	14.4%	9.2%	8.0%	59.2%	15.6%	8.1%	17.1%
ES	91.6%	7.2%	1.2%	81.2%	17.9%	0.9%	62.2%	11.6%	22.7%	3.5%	47.3%	24.2%	24.0%	4.5%
FR	45.7%	5.7%	48.7%	35.6%	29.6%	34.9%	15.8%	6.8%	52.4%	24.9%	9.5%	12.0%	45.1%	33.4%
HR	94.0%	4.3%	1.8%	71.6%	28.4%	NA	67.1%	6.7%	19.9%	6.2%	51.6%	34.2%	10.5%	3.7%
IS	24.4%	69.9%	5.7%	13.3%	73.6%	13.1%	8.8%	36.2%	27.4%	27.6%	9.6%	61.3%	23.8%	5.3%
IT	92.1%	5.8%	2.1%	74.1%	16.1%	9.8%	53.2%	13.5%	32.7%	0.6%	38.6%	25.2%	34.2%	2.0%
CY	75.5%	15.8%	8.7%	74.9%	24.3%	0.8%	35.0%	18.2%	35.4%	11.4%	51.3%	25.3%	19.1%	4.3%
LV	90.5%	8.6%	0.8%	85.5%	14.5%	NA	37.2%	7.8%	54.4%	0.6%	18.9%	33.1%	45.7%	2.3%
LT	88.0%	0.2%	11.7%	92.3%	5.2%	2.5%	28.5%	6.6%	62.5%	2.4%	22.1%	12.7%	60.3%	5.0%
LU	49.0%	25.8%	25.2%	24.9%	23.5%	51.6%	26.7%	15.6%	42.0%	15.7%	22.9%	23.4%	33.9%	19.8%
HU	85.5%	5.4%	9.1%	65.7%	17.6%	16.8%	4.8%	7.7%	74.3%	13.1%	4.3%	13.8%	73.7%	8.1%
MT	94.0%	3.5%	2.5%	72.2%	15.7%	12.1%	31.5%	17.2%	23.6%	27.7%	24.3%	35.1%	29.4%	11.2%
NL	36.2%	26.5%	37.3%	27.4%	50.1%	22.5%	12.4%	24.2%	45.2%	18.2%	7.5%	40.3%	37.7%	14.4%
NO	69.1%	22.5%	8.3%	55.2%	38.5%	6.3%	51.7%	23.3%	2.7%	22.3%	35.3%	53.6%	6.6%	4.5%
AT	90.4%	4.9%	4.7%	55.6%	36.4%	8.0%	9.5%	3.8%	6.2%	80.5%	25.6%	32.4%	35.0%	7.1%
PL	98.6%	1.1%	0.4%	89.6%	8.7%	1.7%	39.1%	6.9%	37.7%	16.4%	38.5%	23.2%	33.7%	4.5%
PT	78.3%	17.7%	4.0%	60.3%	36.7%	3.0%	45.9%	16.7%	35.5%	1.9%	37.7%	35.6%	25.4%	1.3%

ANNEX 4.
Prevalence of work experiences by type at the highest level of education attained

	ISCED 2 or below			ISCED 3-4gen			ISCED 3-4voc				ISCED 5-8			
	no work exp.	work outside curric.	traineeship/ apprenticeship	no work exp.	work outside curric.	traineeship/ apprenticeship	no work exp.	work outside curric.	traineeship	apprentice-ship	no work exp.	work outside curric.	traineeship	apprentice-ship
RO	96.1%	2.9%	1.0%	96.8%	3.2%	NA	86.6%	2.2%	10.7%	0.5%	83.6%	6.5%	9.3%	0.6%
SI	93.6%	4.1%	2.3%	33.3%	52.5%	14.2%	37.5%	25.4%	26.5%	10.6%	13.9%	42.9%	30.7%	12.5%
SK	96.6%	0.4%	3.1%	77.1%	20.9%	2.0%	27.1%	5.2%	51.2%	16.4%	29.3%	26.8%	34.0%	9.8%
FI	NA	NA	100.0%	27.5%	72.5%	NA	9.1%	7.0%	73.9%	9.9%	6.0%	25.8%	59.7%	8.5%
SE	35.8%	35.9%	28.4%	19.8%	62.5%	17.7%	9.8%	28.2%	58.6%	3.5%	9.3%	53.8%	34.8%	2.1%
CH	67.5%	26.2%	6.3%	35.1%	38.0%	26.9%	3.3%	3.1%	1.0%	92.7%	7.1%	37.5%	18.7%	36.8%
UK	79.1%	13.5%	7.4%	59.2%	34.3%	6.5%	35.0%	19.9%	13.9%	31.3%	35.8%	40.6%	14.4%	9.2%
EU-27	83%	7%	10%	68%	22%	10%	31%	9%	30%	31%	32%	23%	32%	12%

NA: no respondents available | **(c): confidential** | **(a): low reliability, too low to be published** | **(u): low reliability, flagged publication**

NB: * High item non-response (>15%), results to be treated with caution.
'No work exp': no work experience during highest level of education.
'Work outside curric.': work experience outside curriculum.
'Traineeship/apprenticeship': traineeships/apprenticeships (EU-LFS AHM 2016 def.).
'Traineeship': traineeships (EU-LFS AHM 2016 def.).
'Apprenticeship': apprenticeships (EU-LFS AHM 2016 def.).
'ISCED 2 or below': low level education, i.e. at most lower secondary education.
'ISCED 3-4 gen': general medium-level education.
'ISCED 3-4 voc': vocational medium-level education.
'ISCED 5-8': tertiary education.

Source: Eurostat EU-LFS 2016 AHM microdata, own calculations.

ANNEX 5.

Gender of graduates

Table A.4. **Gender of graduates by highest education attained and type of work experience at that level, 2016**

	ISCED 2 or below						ISCED 3-4gen						ISCED 3-4voc								ISCED 5-8							
	no work exp.		work outside curr.		trainee/ apprentice		no work exp.		work outside curr.		trainee/ apprentice		no work exp.		work outside curr.		traineeship		apprentice ship		no work exp.		work outside curr.		traineeship		apprentice ship	
	male	female	male	female	male	female	male	female	male	female	male	female	male	female	male	female	male	female	male	female	male	female	male	female	male	female	male	female
BE	61%	39%	56%	44%	51%	49%	42%	58%	60%	40%	41%	59%	57%	43%	66%	34%	56%	44%	64%	36%	46%	54%	45%	55%	39%	61%	43%	57%
BG	51%	49%					50%	50%	54%	46%	72%		70%	30%	73%		67%	33%			39%	61%	46%	54%	38%	62%		
CZ							49%	51%	61%	39%	41%	59%	53%	47%	57%	43%	56%	44%	64%	36%	35%	65%	43%	57%	41%	59%	43%	57%
DK	59%	41%	61%	39%	51%		63%	37%	50%	50%			53%	47%	48%	52%			69%	31%	54%	46%	41%	59%	49%	51%	50%	50%
DE	52%	48%					53%	47%					22%	78%	43%	57%	43%	57%	55%	45%	51%	49%	48%	52%	48%	52%	50%	50%
EE	63%	37%					55%	45%	55%	45%			56%	44%			62%	38%			35%	65%	42%	58%	36%	64%		
IE	64%	36%	78%				60%	40%	56%	44%			44%	56%	37%	63%	40%	60%	77%	23%	42%	58%	40%	60%	37%	63%	47%	53%
EL	57%	43%	76%	24%	86%	14%	52%	48%	74%	26%			54%	46%	72%	28%	46%	54%	51%	49%	38%	62%	44%	56%	35%	65%	52%	48%
ES	60%	40%	63%	37%	60%	40%	47%	53%	53%	47%	32%	68%	48%	52%	50%	50%	52%	48%	87%	13%	41%	59%	45%	55%	42%	58%	41%	59%
FR	51%	49%			56%	44%	48%	52%	45%	55%	37%	63%	60%	40%	46%	54%	49%	51%	68%	32%	41%	59%	43%	57%	41%	59%	53%	47%
HR	55%	45%					49%		0%				60%	40%	60%	40%	61%	39%	63%	37%	36%	64%	37%	63%	31%	69%		
IS	65%	35%	69%	31%					54%	46%												80%	49%	51%	30%	70%		
IT	58%	42%	74%	26%	50%	50%	32%	68%	41%	59%	24%	76%	60%	40%	72%	28%	54%	46%	73%	27%	40%	60%	38%	62%	33%	67%	38%	62%
CY	54%	46%	71%	29%	97%		50%	50%	60%	40%			58%	42%	75%	25%	89%	11%	88%		35%	65%	36%	64%	33%	67%	60%	40%

	ISCED 2 or below						ISCED 3-4gen						ISCED 3-4voc								ISCED 5-8							
	no work exp.		work outside curr.		trainee/ apprentice		no work exp.		work outside curr.		trainee/ apprentice		no work exp.		work outside curr.		traineeship		apprentice ship		no work exp.		work outside curr.		traineeship		apprentice ship	
	male	female	male	female	male	female	male	female	male	female	male	female	male	female	male	female	male	female	male	female	male	female	male	female	male	female	male	female
LV	60%	40 %					55 %	45 %	62 %	38 %			57 %	43 %	83 %		65 %	35 %			43 %	57 %	26 %	74 %	34 %	66 %		
LT	68%	32 %					63 %	37 %					77 %	23 %			60 %	40 %			44 %	56 %	52 %	48 %	36 %	64 %	61 %	
LU	56%	44 %					47 %	53 %	48 %	52 %	54%	46%									48 %	52 %	45 %	55 %	34 %	66 %	62 %	38 %
HU	52%	48 %	60%	40%	62%	38%	41 %	59 %	49 %	51 %	53%	47%	45 %	55 %	60 %	40 %	60 %	40 %	65 %	35 %	41 %	59 %	38 %	62 %	41 %	59 %	49 %	51 %
MT	60%	40 %					48 %	52 %		61 %			63 %	37 %			51 %	49 %	75 %		57 %	43 %	45 %	55 %	38 %	62 %		57 %
NL	56%	44 %	44%	56%	64%	36%	56 %	44 %	67 %	33 %	62%	38%	49 %	51 %	52 %	48 %	45 %	55 %	46 %	54 %	52 %	48 %	48 %	52 %	38 %	62 %	41 %	59 %
NO	62%	38 %	52%	48%	68%	32%	56 %	44 %	52 %	48 %	67%	33%	67 %	33 %	63 %	37 %	45 %	55 %	71 %	29 %	45 %	55 %	41 %	59 %	34 %	66 %	45 %	55 %
AT	51%	49 %		47%		56%	48 %	52 %	47 %	53 %			40 %	60 %	43 %	57 %	48 %	52 %	61 %	39 %	45 %	55 %	43 %	57 %	42 %	58 %	42 %	58 %
PL	63%	37 %					52 %	48 %	63 %	37 %	71%		60 %	40 %	62 %	38 %	62 %	38 %	63 %	37 %	40 %	60 %	44 %	56 %	38 %	62 %	46 %	54 %
PT	56%	44 %	65%	35%	58%		46 %	54 %	46 %	54 %			55 %	45 %	60 %	40 %	58 %	42 %			37 %	63 %	39 %	61 %	30 %	70 %		
RO	50%	50 %	50%	50%			47 %	53 %	70 %	30 %			57 %	43 %	60 %	40 %	54 %	46 %			46 %	54 %	45 %	55 %	48 %	52 %		
SI	71%	29 %					65 %	35 %	57 %	43 %		62%	66 %	34 %	66 %	34 %	61 %	39 %	62 %	38 %	45 %	55 %	38 %	62 %	40 %	60 %	41 %	59 %
SK	50%	50 %					56 %	44 %	61 %	39 %			59 %	41 %	63 %	37 %	59 %	41 %	64 %	36 %	37 %	63 %	44 %	56 %	34 %	66 %	54 %	46 %
FI					62%	38%	65 %	35 %	57 %	43 %			68 %	32 %	61 %	39 %	56 %	44 %	68 %	32 %	50 %	50 %	45 %	55 %	36 %	64 %	58 %	42 %
SE	62%	38 %	67%	33%	67%	33%	62 %	38 %	59 %	41 %	49%	51%	66 %	34 %	63 %	37 %	65 %	35 %	89 %		54 %	46 %	45 %	55 %	32 %	68 %	53 %	

	ISCED 2 or below						ISCED 3-4gen						ISCED 3-4voc								ISCED 5-8							
	no work exp.		work outside curr.		trainee/ apprentice		no work exp.		work outside curr.		trainee/ apprentice		no work exp.		work outside curr.		traineeship		apprentice ship		no work exp.		work outside curr.		traineeship		apprentice ship	
	male	female	male	female	male	female	male	female	male	female	male	female	male	female	male	female	male	female	male	female	male	female	male	female	male	female	male	female
CH	39%	61 %	61%	39%	10%	90%	57 %	43 %	52 %	48 %	17%	83%	59 %	41 %	52 %	48 %	72 %	28 %	51 %	49 %	45 %	55 %	58 %	42 %	46 %	54 %	48 %	52 %
UK	53%	47 %	55%	45%	64%	36%	52 %	48 %	47 %	53 %	49%	51%	49 %	51 %	51 %	49 %	48 %	52 %	61 %	39 %	49 %	51 %	46 %	54 %	41 %	59 %	51 %	49 %
Total	56%	44 %	62%	38%	58%	42%	49 %	51 %	51 %	49 %	41%	59%	55 %	45 %	56 %	44 %	55 %	45 %	58 %	42 %	45 %	55 %	45 %	55 %	40 %	60 %	50 %	50 %
EU-27	56%	44 %	65%	35%	58%	42%	48 %	52 %	53 %	47 %	41%	59%	56 %	44 %	57 %	43 %	55 %	45 %	59 %	41 %	43 %	57 %	44 %	56 %	39 %	61 %	51 %	49 %

NA: no respondents available | **(c): confidential** | **(a): low reliability, too low to be published** | **(u): low reliability, flagged publication**

NB: * High item non-response (>15%), results to be treated with caution.
'No work exp': no work experience during highest level of education.
'Work outside curr.': work experience outside curriculum.
'Trainee/apprentice': traineeships/apprenticeships (EU-LFS AHM 2016 def.).
'Traineeship': traineeships (EU-LFS AHM 2016 def.).
'Apprenticeship': apprenticeships (EU-LFS AHM 2016 def.).
'ISCED 2 or below': low-level education, i.e. at most lower secondary education.
'ISCED 3-4 gen': general medium-level education.
'ISCED 3-4 voc': vocational medium-level education.
'ISCED 5-8': tertiary education.

Source: Eurostat EU-LFS 2016 AHM microdata, own calculations.

ANNEX 6.

Age of graduates

Table A.5. **Age group of graduates (20-24, 25-29, 30-34) by highest education attained and type of work experience at that level, 2016**

	ISCED 2 or below									ISCED 3-4gen									ISCED 3-4voc					
	no work exp.			work outside curr.			trainee/apprentice			no work exp.			work outside curr.			trainee/apprentice			no work exp.			work outside curr.		
	20-24	25-29	30-34	20-24	25-29	30-34	20-24	25-29	30-34	20-24	25-29	30-34	20-24	25-29	30-34	20-24	25-29	30-34	20-24	25-29	30-34	20-24	25-29	30-34
BE	24%	38%	38%	27%	36%	37%	24%	44%	32%	19%	36%	45%	22%	37%	41%	28%	47%		27%	43%	29%	31%	38%	31%
BG	24%	36%	40%							21%	40%	39%		39%	35%				20%	39%	42%			
CZ										16%	36%	48%	20%	47%	33%	21%	35%	44%	20%	36%	44%	23%	41%	36%
DK	28%	35%	37%	32%	38%	30%				67%			73%	14%	13%				15%	34%	52%		47%	45%
DE	26%	34%	40%							48%	34%								20%	43%	37%	19%	38%	42%
EE	33%	36%	31%							24%	43%	33%	33%		39%				25%	33%	42%			
IE	23%	33%	44%							34%	31%	35%	29%	32%	38%				27%	32%	42%	18%	36%	46%
EL	15%	32%	53%	15%	34%	50%	21%	31%	48%	21%	37%	42%	24%	37%	40%				20%	39%	40%	15%	38%	47%
ES	21%	34%	45%	13%	39%	48%	47%	14%	39%	20%	32%	48%	15%	30%	56%			46%	26%	33%	41%	13%	33%	54%
FR	18%	33%	48%				36%	33%	31%	29%	34%	37%	32%	31%	37%	27%	30%	43%	24%	35%	41%		35%	48%
HR	17%	34%	48%									70%							27%	33%	40%	29%	32%	39%
IS		58%		42%	39%	19%							51%	27%	22%									
IT	22%	34%	45%	15%	27%	59%	23%	30%	47%	28%	32%	40%	18%	33%	49%	31%	41%	28%	29%	35%	36%	19%	34%	47%
CY	24%	33%	43%		44%	44%		42%	54%	36%	32%	33%	21%	34%	45%				21%	25%	53%	19%	36%	45%
LV	31%	30%	38%							18%	43%	39%		34%					23%	29%	48%			
LT	27%	35%	38%							30%	34%	36%							29%	35%	36%			
LU																								
HU	32%	35%	32%	29%	26%	45%	42%	35%	23%	28%	37%	34%	29%	33%	38%	35%	40%	26%	22%	38%	40%	19%	39%	42%
MT	22%	34%	44%							29%	33%	37%							29%					
NL	31%	35%	34%	22%	41%	36%	29%	42%	29%	23%	50%	27%	32%	25%	43%	32%	41%	26%	26%	29%	45%	15%	37%	48%
NO	27%	37%	36%	31%	36%	33%	49%	23%	28%	43%	35%	22%	49%	24%	28%	45%	36%	19%	18%	41%	41%	20%	37%	43%
AT	26%	34%	40%							30%	33%	38%	23%	20%	58%				31%	30%	39%	25%	38%	36%
PL	29%	35%	36%							25%	45%	30%	26%	52%	22%	35%		56%	27%	31%	42%	22%	37%	41%

	ISCED 2 or below									ISCED 3-4gen									ISCED 3-4voc					
	no work exp.			work outside curr.			trainee/apprentice			no work exp.			work outside curr.			trainee/apprentice			no work exp.			work outside curr.		
	20-24	25-29	30-34	20-24	25-29	30-34	20-24	25-29	30-34	20-24	25-29	30-34	20-24	25-29	30-34	20-24	25-29	30-34	20-24	25-29	30-34	20-24	25-29	30-34
PT	21%	31%	48%	17%	27%	56%	44%			25%	37%	38%	12%	29%	59%				35%	40%	25%	26%	32%	42%
RO	26%	37%	37%		48%	30%				22%	42%	36%							22%	40%	38%		45%	38%
SI	24%	31%	45%								41%	43%		40%	55%		57%		17%	34%	49%	16%	39%	45%
SK	34%	35%	31%							32%	30%	39%		42%	36%				25%	32%	44%	29%	36%	34%
FI							30%	33%	36%	46%	34%	21%	52%	25%	23%				26%	35%	39%	25%	36%	38%
SE	23%	41%	35%	23%	31%	45%	33%	33%	34%	44%	31%	25%	39%	28%	32%	35%	32%	33%	39%	39%	21%	29%	41%	30%
CH	23%	24%	52%	20%	51%	29%	16%	40%	43%	37%	26%	38%	39%	25%	35%	33%	33%	33%	34%	14%	52%	28%	49%	22%
UK	32%	36%	32%	27%	38%	35%	22%	40%	38%	36%	31%	32%	33%	33%	34%	27%	32%	40%	36%	32%	32%	34%	32%	33%
Total	25%	35%	41%	22%	35%	43%	33%	34%	33%	29%	36%	35%	32%	31%	37%	30%	32%	38%	27%	35%	38%	23%	36%	41%
EU-27	23%	34%	43%	19%	33%	48%	34%	34%	32%	27%	37%	36%	30%	31%	39%	30%	32%	37%	25%	36%	39%	20%	37%	43%

NA: no respondents available | **(c): confidential** | **(a): low reliability, too low to be published** | **(u): low reliability, flagged publication**

NB: * High item non-response (>15%), results to be treated with caution.
'No work exp.': no work experience during highest level of education.
'Work outside curr.': work experience outside curriculum.
'Trainee/apprentice': traineeships/apprenticeships (EU-LFS AHM 2016 def.).
'ISCED 2 or below': low-level education, i.e. at most lower secondary education.
'ISCED 3-4 gen': general medium-level education.
'ISCED 3-4 voc': vocational medium-level education.

Source: Eurostat EU-LFS 2016 AHM microdata, own calculations.

Table A.5. **Age group of graduates (20-24, 25-29, 30-34) by highest education attained and type of work experience at that level (continuation), 2016**

	ISCED 3-4voc						ISCED 5-8											
	traineeship			apprenticeship			no work exp.			work outside curr.			traineeship			apprenticeship		
	20-24	25-29	30-34	20-24	25-29	30-34	20-24	25-29	30-34	20-24	25-29	30-34	20-24	25-29	30-34	20-24	25-29	30-34
BE	31%	37%	32%	23%	41%	35%	12%	38%	50%	8%	36%	56%	12%	41%	47%		46%	47%
BG	19%	35%	46%				5%	48%	47%		45%	49%	5%	40%	55%			
CZ	24%	35%	41%	21%	37%	42%	4%	37%	59%	5%	42%	53%	5%	43%	52%	5%	36%	59%
DK				20%	32%	48%		45%	52%	5%	40%	56%		51%	44%		35%	60%
DE		46%	44%	21%	38%	41%	6%	41%	53%		44%	53%		41%	54%		32%	62%
EE	25%	38%	37%					37%	55%		45%	51%		44%	47%			
IE	29%	27%	43%		31%	53%	19%	35%	46%	18%	36%	46%	16%	30%	54%		35%	48%
EL	22%	42%	36%	19%	40%	41%	9%	40%	51%	6%	39%	55%	12%	39%	49%	8%	34%	58%
ES	28%	34%	38%	7%	45%	48%	15%	38%	47%	9%	33%	58%	15%	40%	45%	7%	26%	66%
FR	29%	36%	35%	27%	34%	39%	18%	37%	46%		41%	52%	15%	38%	47%	15%	44%	41%
HR	33%	32%	34%		25%	57%	7%	48%	45%		40%	56%	15%	54%				
IS											41%	54%		40%	56%			
IT	34%	33%	33%	24%	39%	37%	7%	43%	50%	5%	32%	63%	6%	40%	54%		29%	67%
CY	30%	35%	35%	25%	29%	46%	19%	39%	41%	13%	48%	39%	11%	50%	39%	15%	45%	40%
LV	34%	36%	30%					52%	38%		48%	43%	8%	47%	46%			
LT	26%	37%	37%					36%	59%		36%	55%	13%	34%	53%			54%
LU								43%	51%		35%	63%		46%	45%		44%	55%
HU	25%	37%	38%	24%	38%	38%		39%	54%	9%	42%	50%	7%	40%	52%	10%	40%	50%
MT	37%				39%			32%	49%	14%	42%	44%	18%	47%	35%			
NL	29%	37%	34%	30%	42%	28%	7%	47%	46%	10%	39%	51%	11%	45%	44%	9%	43%	48%
NO	30%		45%	29%	34%	37%	9%	38%	53%	10%	44%	46%	13%	46%	41%	10%	28%	62%
AT	29%	40%	31%	28%	35%	37%	18%	38%	44%	13%	38%	49%	17%	36%	48%	20%	38%	41%
PL	28%	31%	41%	27%	33%	40%	4%	42%	54%	3%	39%	58%	6%	41%	53%		53%	45%
PT	48%	30%	22%				13%	47%	40%	8%	36%	56%	13%	37%	50%			
RO	22%	37%	41%				6%	45%	49%		46%	51%		47%	47%			

	ISCED 3-4voc						ISCED 5-8											
	traineeship			apprenticeship			no work exp.			work outside curr.			traineeship			apprenticeship		
	20-24	25-29	30-34	20-24	25-29	30-34	20-24	25-29	30-34	20-24	25-29	30-34	20-24	25-29	30-34	20-24	25-29	30-34
SI	27%	33%	40%	23%	37%	40%		44%	56%	4%	40%	56%	6%	44%	50%		35%	64%
SK	20%	37%	43%	27%	33%	40%	4%	48%	48%	6%	45%	50%	5%	43%	53%		51%	46%
FI	33%	35%	33%	28%	35%	38%		34%	60%		34%	64%	6%	41%	53%		34%	60%
SE	33%	38%	30%		43%			33%	63%	7%	36%	56%	8%	46%	47%			59%
CH	51%	26%	23%	34%	34%	32%		30%	70%	6%	40%	54%	6%	41%	53%	5%	43%	52%
UK	27%	34%	39%	23%	40%	37%	22%	39%	39%	21%	39%	40%	21%	43%	36%	15%	37%	48%
Total	28%	35%	37%	23%	37%	39%	11%	40%	48%	11%	39%	51%	11%	41%	48%	11%	40%	48%
EU-27	28%	35%	36%	23%	37%	40%	9%	41%	50%	6%	39%	55%	10%	40%	50%	11%	41%	48%

NA: no respondents available | **(c): confidential** | **(a): low reliability, too low to be published** | **(u): low reliability, flagged publication**

NB: * High item non-response (>15%), results to be treated with caution.
'No work exp.': no work experience during highest level of education.
'Work outside curr.': work experience outside curriculum.
'Traineeship': traineeships (EU-LFS AHM 2016 def.).
'Apprenticeship': apprenticeships (EU-LFS AHM 2016 def.).
'ISCED 3-4 voc': vocational medium-level education.
'ISCED 5-8': tertiary education.

Source: Eurostat EU-LFS 2016 AHM microdata, own calculations.

ANNEX 7.

Marital status of graduates

Table A.6. **Marital status of graduates by highest education attained and type of work experience at that level, 2016**

	ISCED 2 or below						ISCED 3-4gen						ISCED 3-4voc								ISCED 5-8							
	no work exp.		work outside curr.		trainee/ apprentice		no work exp.		work outside curr.		trainee/ apprentice		no work exp.		work outside curr.		trainee-ship		apprentice-ship		no work exp.		work outside curr.		trainee-ship		apprentice-ship	
	single	married	single	married	single	married	single	married	single	married	single	married	single	married	single	married	single	married	single	married	single	married	single	married	single	married	single	married
BE	68%	32%	80%	20%	81%	19%	63%	37%	83%	17%	80%		76%	24%	84%	16%	80%	20%	85%	15%	70%	30%	73%	27%	73%	27%	67%	33%
BG	65%	35%					69%	31%	71%				72%	28%	81%		72%	28%			66%	34%	65%	35%	65%	35%		
CZ							63%	37%	73%	27%	84%		72%	28%	76%	24%	71%	29%	76%	24%	54%	46%	60%	40%	57%	43%	65%	35%
DK	85%	15%	84%		90%		94%		92%		96%		69%	31%	67%	33%	75%		72%	28%	63%	37%	71%	29%	65%	35%	71%	29%
DE	63%	37%					77%						64%	36%	71%	29%	77%		72%	28%	62%	38%	65%	35%	76%	24%	69%	31%
EE	82%	18%			91%		72%	28%	89%				71%	29%	79%		80%	20%			55%	45%	75%	25%	66%	34%		
IE	83%	17%					86%	14%	83%	17%	85%		72%	28%	77%	23%	77%	23%	73%	27%	73%	27%	73%	27%	67%	33%	67%	33%
EL	55%	45%	59%	41%	64%	36%	64%	36%	76%	24%			72%	28%	76%	24%	68%	32%	75%	25%	74%	26%	78%	22%	73%	27%	71%	29%
ES	73%	27%	75%	25%	79%	21%	69%	31%	70%	30%	73%		75%	25%	75%	25%	81%	19%	94%	6%	79%	21%	78%	22%	79%	21%	70%	30%
FR	62%	38%	78%		86%	14%	71%	29%	83%		77%	23%	78%	22%	77%	23%	82%	18%	82%	18%	68%	32%	74%	26%	74%	26%	78%	22%
HR	54%	46%					44%	56%					59%	41%	60%	40%	65%	35%	57%	43%	71%	29%	61%	39%	67%	33%		
IS	78%		92%						88%						72%						77%		79%	21%	77%			
IT	62%	38%	62%	38%	72%	28%	73%	27%	73%	27%	82%	18%	78%	22%	75%	25%	81%	19%	70%	30%	77%	23%	71%	29%	75%	25%	66%	34%
CY	47%	53%	69%	31%	64%	36%	64%	36%	64%	36%			55%	45%	53%	47%	75%	25%	56%	44%	65%	35%	69%	31%	59%	41%	81%	19%
LV	83%	17%					74%	26%	74%				72%	28%	67%		72%	28%			60%	40%	44%	56%	57%	43%		
LT	72%	28%					64%	36%					71%	29%			57%	43%			49%	51%	50%	50%	46%	54%		62%
LU	52%	48%					50%		55%	45%	65%	35%									54%	46%	49%	51%	54%	46%	50%	50%
HU	79%	21%	68%		82%	18%	78%	22%	69%	31%	75%	25%	73%	27%	80%	20%	80%	20%	79%	21%	60%	40%	64%	36%	68%	32%	71%	29%
MT	75%	25%					76%	24%	81%		85%		77%		84%		79%		72%		80%		68%	32%	73%	27%	84%	
NL	80%	20%	69%	31%	77%	23%	86%	14%	83%	17%	79%	21%	68%	32%	63%	37%	73%	27%	71%	29%	81%	19%	71%	29%	73%	27%	65%	35%
NO	80%	20%	87%	13%	78%	22%	80%	20%	88%	12%	96%		78%	22%	81%	19%	89%		86%	14%	69%	31%	76%	24%	73%	27%	62%	38%
AT	55%	45%	67%		77%		59%	41%	70%	30%			64%	36%	64%	36%	75%	25%	74%	26%	62%	38%	69%	31%	75%	25%	78%	22%
PL	68%	32%					55%	45%	50%	50%	51%		53%	47%	48%	52%	54%	46%	53%	47%	40%	60%	34%	66%	42%	58%	44%	56%
PT	71%	29%	63%	37%	72%		74%	26%	68%	32%			85%	15%	85%		85%	15%			83%	17%	74%	26%	74%	26%		

	ISCED 2 or below						ISCED 3-4gen						ISCED 3-4voc								ISCED 5-8							
	no work exp.		work outside curr.		trainee/ apprentice		no work exp.		work outside curr.		trainee/ apprentice		no work exp.		work outside curr.		trainee-ship		apprentice-ship		no work exp.		work outside curr.		trainee-ship		apprentice-ship	
	single	married	single	married	single	married	single	married	single	married	single	married	single	married	single	married	single	married	single	married	single	married	single	married	single	married	single	married
RO	54%	46%	50%	50%	87%		57%	43%					55%	45%	60%	40%	47%	53%			53%	47%	28%	72%	52%	48%		
SI	71%	29%					63%	37%	85%	15%	100 %		77%	23%	76%	24%	80%	20%	80%	20%	67%	33%	68%	32%	80%	20%	69%	31%
SK	74%	26%					69%	31%	59%	41%			66%	34%	79%	21%	70%	30%	70%	30%	67%	33%	67%	33%	61%	39%	74%	26%
FI					82%	18%	89%		85%	15%			75%	25%	66%	34%	77%	23%	74%	26%	52%	48%	60%	40%	64%	36%	71%	29%
SE	70%	30%	68%	32%	79%	21%	83%	17%	83%	17%	88%		85%	15%	88%	12%	85%	15%	81%		53%	47%	74%	26%	71%	29%	64%	
CH	43%	57%	47%	53%	31%	69%	60%	40%	79%	21%	67%	33%	62%	38%	72%	28%	75%	25%	73%	27%	49%	51%	74%	26%	71%	29%	68%	32%
UK	78%	22%	77%	23%	72%	28%	75%	25%	76%	24%	69%	31%	72%	28%	76%	24%	70%	30%	70%	30%	65%	35%	68%	32%	69%	31%	57%	43%
Total	68%	32%	71%	29%	81%	19%	69%	31%	77%	23%	76%	24%	69%	31%	73%	27%	74%	26%	73%	27%	65%	35%	67%	33%	68%	32%	70%	30%
EU-27	66%	34%	69%	31%	83%	17%	68%	32%	77%	23%	78%	22%	69%	31%	72%	28%	74%	26%	73%	27%	65%	35%	66%	34%	68%	32%	73%	27%

NA: no respondents available | **(c): confidential** | **(a): low reliability, too low to be published** | **(u): low reliability, flagged publication**

NB: * High item non-response (>15%), results to be treated with caution.
'Married': married.
'Single': single, divorced or widowed.
'No work exp.': no work experience during highest level of education.
'Work outside curr.': work experience outside curriculum.
'Trainee/apprentice': traineeships/apprenticeships (EU-LFS AHM 2016 def.).
'Traineeship': traineeships (EU-LFS AHM 2016 def.).
'Apprenticeship': apprenticeships (EU-LFS AHM 2016 def.).
'ISCED 2 or below': low-level education, i.e. at most lower secondary education.
'ISCED 3-4 gen': general medium-level education.
'ISCED 3-4 voc': vocational medium-level education.
'ISCED 5-8': tertiary education.

Source: Eurostat EU-LFS 2016 AHM microdata, own calculations.

ANNEX 8.

Country of birth of graduates

Table A.7. **Country of birth of graduates by highest education attained and type of work experience at that level, 2016**

	ISCED 2 or below						ISCED 3-4gen						ISCED 3-4voc								ISCED 5-8							
	no work exp.		work outside curr.		trainee/ apprentice		no work exp.		work outside curr.		trainee/ apprentice		no work exp.		work outside curr.		traineeship		apprentice-ship		no work exp.		work outside curr.		traineeship		apprentice-ship	
	nat birth	no nat birth	nat birth	no nat birth	nat birth	no nat birth	nat birth	no nat birth	nat birth	no nat birth	nat birth	no nat birth	nat birth	no nat birth	nat birth	no nat birth	nat birth	no nat birth	nat birth	no nat birth	nat birth	no nat birth	nat birth	no nat birth	nat birth	no nat birth	nat birth	no nat birth
BE	67%	33%	78%	22%	79%	21%	67%	33%	87%	13%	73%		83%	17%	90%	10%	91%	9%	93%		79%	21%	86%	14%	85%	15%	61%	39%
BG	100 %						100 %		100 %		100 %		100 %		100 %		100 %				100 %		100 %		100 %			
CZ							95%	5%	100 %		90%		94%	6%	98%	2%	97%	3%	98%	2%	94%	6%	97%	3%	97%	3%	87%	13%
DK	86%	14%	93%		81%		91%		93%		87%		87%		93%		76%		94%		69%	31%	87%	13%	82%		77%	
DE	56%	44%					53%	47%					83%		84%		91%		82%	18%	71%	29%	81%	19%	88%		89%	
EE	86%	14%			92%		87%	13%	100 %				89%	11%	69%		82%	18%	90%		89%		92%		91%		96%	
IE	86%	14%	85%				82%	18%	88%	12%			75%	25%	76%	24%	84%		88%		73%	27%	82%	18%	78%	22%	75%	
EL	66%	34%	73%	27%	93%		85%	15%	92%	8%			92%	8%	95%	5%	94%	6%	96%	4%	97%	3%	95%	5%	95%	5%	97%	3%
ES	75%	25%	77%	23%	68%	32%	50%	50%	66%	34%	82%		85%	15%	89%	11%	93%	7%	88%		87%	13%	93%	7%	92%	8%	92%	8%
FR	66%	34%	88%		92%		78%		94%		94%		83%	17%	92%		95%	5%	96%		80%		94%		92%	8%	94%	
HR	100 %						100 %						99%	1%	100 %		99%		94%		97%		100 %		100 %		100 %	
IS	78%		90%						85%	15%					100 %		92%						95%		95%			
IT	72%	28%	74%	26%	78%	22%	81%	19%	84%	16%	89%	11%	85%	15%	87%	13%	92%	8%	88%		91%	9%	92%	8%	94%	6%	86%	
CY	50%	50%	48%	52%	80%		65%	35%	71%	29%			59%	41%	50%	50%	91%	9%	87%		89%	11%	81%	19%	84%	16%	86%	14%
LV	99%		100 %				100 %		100 %				100 %		100 %		100 %				100 %		96%		98%			
LT	97%						99%						100 %				99%				96%		97%		99%		100 %	
LU		79%					41%	59%	75%		68%	32%									30%	70%	31%	69%	47%	53%		74%
HU	96%	4%	69%		100 %		98%	2%	94%		97%		91%		100 %		98%	2%	99%		100 %		96%		97%	3%	98%	
MT	96%						95%		100 %		95%		96%		92%		98%		91%		89%		99%		100 %		97%	
NL	86%	14%	94%		89%	11%	92%		94%		90%	10%	85%	15%	92%	8%	91%	9%	95%	5%	91%	9%	94%	6%	93%	7%	94%	6%
NO	81%	19%	85%	15%	85%	15%	68%	32%	85%	15%	76%	24%	86%	14%	94%	6%	87%		91%	9%	76%	24%	91%	9%	93%	7%	85%	15%
AT	46%	54%	56%		80%		34%	66%	85%				63%	37%	75%	25%	82%	18%	82%	18%	67%	33%	83%	17%	84%	16%	87%	

	ISCED 2 or below						ISCED 3-4gen						ISCED 3-4voc								ISCED 5-8							
	no work exp.		work outside curr.		trainee/ apprentice		no work exp.		work outside curr.		trainee/ apprentice		no work exp.		work outside curr.		traineeship		apprentice-ship		no work exp.		work outside curr.		traineeship		apprentice-ship	
	nat birth	no nat birth	nat birth	no nat birth	nat birth	no nat birth	nat birth	no nat birth	nat birth	no nat birth	nat birth	no nat birth	nat birth	no nat birth	nat birth	no nat birth	nat birth	no nat birth	nat birth	no nat birth	nat birth	no nat birth	nat birth	no nat birth	nat birth	no nat birth	nat birth	no nat birth
PL	99%						100 %		100 %		100 %		100 %		100 %		100 %		100 %		100 %		100 %		100 %		100 %	
PT	92%	8%	93%		93%		88%	12%	88%	12%	92%		92%	8%	88%		94%				97%		95%		92%			
RO	100 %		100 %		100 %		99%		100 %				100 %		100 %		100 %		100 %		100 %		100 %		100 %			
SI	99%						95%		100 %		100 %		96%		98%		99%		99%		97%		98%		99%		100 %	
SK	100 %						99%		100 %				100 %		100 %		100 %		100 %		99%		99%		100 %		100 %	
FI					85%	15%	97%		98%				95%		96%		97%	3%	96%		89%		97%		97%	3%	100 %	
SE	65%	35%	79%	21%	84%		92%		92%	8%	89%		95%		96%		95%	5%	97%		72%	28%	92%	8%	92%	8%	70%	
CH	24%	76%	37%	63%	33%	67%	36%	64%	70%	30%	69%	31%	60%	40%	66%	34%	69%	31%	72%	28%	42%	58%	64%	36%	57%	43%	68%	32%
UK	85%	15%	92%	8%	93%	7%	88%	12%	92%	8%	91%	9%	67%	33%	82%	18%	85%	15%	93%	7%	76%	24%	84%	16%	77%	23%	85%	15%
Total	78%	22%	82%	18%	89%	11%	83%	17%	89%	11%	90%	10%	89%	11%	89%	11%	95%	5%	86%	14%	85%	15%	89%	11%	91%	9%	90%	10%
EU -27	78%	22%	80%	20%	89%	11%	82%	18%	89%	11%	91%	9%	91%	9%	91%	9%	96%	4%	86%	14%	87%	13%	92%	8%	93%	7%	92%	8%

NA: no respondents available | **(c): confidential** | **(a): low reliability, too low to be published** | **(u): low reliability, flagged publication**

NB: * High item non-response (>15%), results to be treated with caution.
'Nat birth': born with the native nationality.
'No nat birth': born with a foreign nationality.
'No work exp.': no work experience during highest level of education.
'Work outside curr.': work experience outside curriculum.
'Trainee/apprentice': traineeships/apprenticeships (EU-LFS AHM 2016 def.).
'Traineeship': traineeships (EU-LFS AHM 2016 def.).
'Apprenticeship': apprenticeships (EU-LFS AHM 2016 def.).
'ISCED 2 or below': low-level education, i.e. at most lower secondary education.
'ISCED 3-4 gen': general medium-level education.
'ISCED 3-4 voc': vocational medium-level education.
'ISCED 5-8': tertiary education.

Source: Eurostat EU-LFS 2016 AHM microdata, own calculations.

ANNEX 9.

Household working status of graduates

Table A.8. **Household working status of graduates by highest education attained and type of work experience at that level, 2016**

	ISCED 2 or below						ISCED 3-4gen						ISCED 3-4voc								ISCED 5-8							
	no work exp.		work outside curr.		trainee/ apprentice		no work exp.		work outside curr.		trainee/ apprentice		no work exp.		work outside curr.		traineeship		apprentice-ship		no work exp.		work outside curr.		traineeship		apprentice-ship	
	not all adults working	all adults working	not all adults working	all adults working	not all adults working	all adults working	not all adults working	all adults working	not all adults working	all adults working	not all adults working	all adults working	not all adults working	all adults working	not all adults working	all adults working	not all adults working	all adults working	not all adults working	all adults working	not all adults working	all adults working	not all adults working	all adults working	not all adults working	all adults working	not all adults working	all adults working
BE	34%	66%	51%	49%	51%	49%	54%	46%	71%	29%	61%	39%	55%	45%	61%	39%	62%	38%	49%	51%	67%	33%	77%	23%	76%	24%	81%	
BG	14%	86%					42%	58%	47%	53%			40%	60%		57%	50%	50%			52%	48%	61%	39%	65%	35%		
CZ							69%	31%	73%	27%	82%	18%	61%	39%	66%	34%	62%	38%	62%	38%	65%	35%	64%	36%	68%	32%	80%	20%
DK																												
DE	40%	60%					46%	54%					69%	31%	82%	18%	78%		73%	27%	77%	23%	86%	14%	89%		85%	
EE	45%	55%					54%	46%	62%	38%			57%	43%	83%		65%	35%			55%	45%	78%	22%	70%	30%		
IE	27%	73%					40%	60%	53%	47%			43%	57%	63%	37%	57%	43%	55%	45%	57%	43%	71%	29%	69%	31%	67%	33%
EL	24%	76%	36%	64%	17%	83%	27%	73%	44%	56%			27%	73%	38%	62%	25%	75%	32%	68%	35%	65%	46%	54%	35%	65%	49%	51%
ES	29%	71%	44%	56%	28%	72%	40%	60%	57%	43%	33%	67%	37%	63%	55%	45%	45%	55%	35%	65%	46%	54%	56%	44%	53%	47%	60%	40%
FR	26%	74%			29%	71%	54%	46%	60%	40%	61%	39%	47%	53%	57%	43%	54%	46%	62%	38%	64%	36%	76%	24%	74%	26%	75%	25%
HR	12%	88%						81%					24%	76%	48%	52%	26%	74%	25%	75%	37%	63%	45%	55%	46%	54%		
IS																												
IT	23%	77%	35%	65%	45%	55%	29%	71%	45%	55%	31%	69%	28%	72%	41%	59%	40%	60%	39%	61%	37%	63%	56%	44%	51%	49%	56%	44%
CY	41%	59%	44%	56%	42%	58%	40%	60%	44%	56%			46%	54%	38%	62%	47%	53%	58%	42%	51%	49%	59%	41%	61%	39%	68%	32%
LV	39%	61%					45%	55%	32%	68%			48%	52%		61%	52%	48%			59%	41%	79%	21%	67%	33%		
LT	32%	68%					60%	40%					49%	51%			58%	42%			85%	15%	79%	21%	80%	20%	98%	
LU																												
HU	24%	76%	49%	51%	43%	57%	59%	41%	64%	36%	62%	38%	53%	47%	65%	35%	53%	47%	55%	45%	60%	40%	64%	36%	66%	34%	67%	33%
MT	24%	76%					41%	59%		61%				68%		62%		69%		68%	46%	54%	48%	52%	48%	52%		65%
NL	44%	56%	64%	36%	52%	48%	51%	49%	72%	28%	71%	29%	65%	35%	76%	24%	73%	27%	74%	26%	75%	25%	87%	13%	89%	11%	91%	9%
NO																												
AT	39%	61%	53%			58%	63%	37%	74%	26%			58%	42%	77%	23%	71%	29%	68%	32%	66%	34%	77%	23%	79%	21%	72%	28%
PL	19%	81%					39%	61%	50%	50%	50%	50%	38%	62%	43%	57%	36%	64%	32%	68%	58%	42%	71%	29%	62%	38%	66%	34%
PT	45%	55%	55%	45%		73%	51%	49%	62%	38%			43%	57%	54%	46%	53%	47%			46%	54%	68%	32%	61%	39%		

	ISCED 2 or below						ISCED 3-4gen						ISCED 3-4voc								ISCED 5-8							
	no work exp.		work outside curr.		trainee/ apprentice		no work exp.		work outside curr.		trainee/ apprentice		no work exp.		work outside curr.		traineeship		apprentice-ship		no work exp.		work outside curr.		traineeship		apprentice-ship	
	not all adults working	all adults working	not all adults working	all adults working	not all adults working	all adults working	not all adults working	all adults working	not all adults working	all adults working	not all adults working	all adults working	not all adults working	all adults working	not all adults working	all adults working	not all adults working	all adults working	not all adults working	all adults working	not all adults working	all adults working	not all adults working	all adults working	not all adults working	all adults working	not all adults working	all adults working
RO	30%	70%	53%	47%		83%	39%	61%					43%	57%	40%	60%	35%	65%		79%	60%	40%	57%	43%	61%	39%		
SI	37%	63%					54%	46%	61%	39%			55%	45%	62%	38%	57%	43%	58%	42%	60%	40%	61%	39%	65%	35%	74%	26%
SK	11%	89%					41%	59%	36%	64%			41%	59%	53%	47%	37%	63%	42%	58%	43%	57%	62%	38%	42%	58%	52%	48%
FI																												
SE																												
CH																												
UK	41%	59%	55%	45%	63%	37%	63%	37%	72%	28%	69%	31%	54%	46%	73%	27%	69%	31%	78%	22%	68%	32%	80%	20%	79%	21%	84%	16%
Total	31%	69%	49%	51%	37%	63%	46%	54%	63%	37%	58%	42%	42%	58%	61%	39%	50%	50%	68%	32%	60%	40%	73%	27%	69%	31%	76%	24%
EU-27	29%	71%	46%	54%	33%	67%	42%	58%	58%	42%	56%	44%	40%	60%	58%	42%	49%	51%	67%	33%	57%	43%	70%	30%	68%	32%	75%	25%

NA: no respondents available | **(c): confidential** | **(a): low reliability, too low to be published** | **(u): low reliability, flagged publication**

NB: * High item non-response (>15%), results to be treated with caution.
'Not all adults working': at least one adult in the household is not working.
'All adults working': all adults in the household are working.
'No work exp.': no work experience during highest level of education.
'Work outside curr.': work experience outside curriculum.
'Trainee/apprentice': traineeships/apprenticeships (EU-LFS AHM 2016 def.).
'Traineeship': traineeships (EU-LFS AHM 2016 def.).
'Apprenticeship': apprenticeships (EU-LFS AHM 2016 def.).
'ISCED 2 or below': low-level education, i.e. at most lower secondary education.
'ISCED 3-4 gen': general medium-level education.
'ISCED 3-4 voc': vocational medium-level education.
'ISCED 5-8': tertiary education.

Source: Eurostat EU-LFS 2016 AHM microdata, own calculations.

ANNEX 10.

Employment status of graduates

Table A.9. **Employment status of graduates by highest education attained and type of work experience at that level, 2016**

	ISCED 2 or below						ISCED 3-4gen						ISCED 3-4voc								ISCED 5-8							
	no work exp.		work outside curr.		trainee/ apprentice		no work exp.		work outside curr.		trainee/ apprentice		no work exp.		work outside curr.		traineeship		apprentice-ship		no work exp.		work outside curr.		traineeship		apprentice-ship	
	not employed	employed	not employed	employed	not employed	employed	not employed	employed	not employed	employed	not employed	employed	not employed	employed	not employed	employed	not employed	employed	not employed	employed	not employed	employed	not employed	employed	not employed	employed	not employed	employed
BE	52%	48%	30%	70%	32%	68%	32%	68%	14%	86%	32%	68%	22%	78%	16%	84%	20%	80%	20%	80%	16%	84%	10%	90%	9%	91%		87%
BG	65%	35%					30%	70%		80%		76%	25%	75%		85%	17%	83%			20%	80%	11%	89%	12%	88%		
CZ							13%	87%	6%	94%		87%	18%	82%	16%	84%	18%	82%	15%	85%	16%	84%	18%	82%	18%	82%	12%	88%
DK	50%	50%	32%	68%		78%	33%	67%	16%	84%		86%	18%	82%		95%		81%		94%	19%	81%	10%	90%	13%	87%		89%
DE	45%	55%					49%	51%						83%		91%		91%	13%	87%	12%	88%		97%		97%		95%
EE	32%	68%					30%	70%		82%			24%	76%		93%	16%	84%		95%	23%	77%	13%	87%	21%	79%		90%
IE	54%	46%					34%	66%	18%	82%			32%	68%		88%	22%	78%		85%	18%	82%	8%	92%	11%	89%		87%
EL	52%	48%	29%	71%	40%	60%	44%	56%	19%	81%			43%	57%	26%	74%	49%	51%	31%	69%	39%	61%	20%	80%	38%	62%	20%	80%
ES	44%	56%	29%	71%	49%	51%	37%	63%	23%	77%		64%	32%	68%	19%	81%	27%	73%	8%	92%	26%	74%	19%	81%	23%	77%	19%	81%
FR	53%	47%			55%	45%	35%	65%	24%	76%	28%	72%	37%	63%	28%	72%	31%	69%	24%	76%	23%	77%	15%	85%	14%	86%	12%	88%
HR	60%	40%						59%					31%	69%	16%	84%	29%	71%	20%	80%	15%	85%	13%	87%	21%	79%		100 %
IS		84%	14%	86%				80%		93%		86%				94%		100 %		100 %		100 %		98%		100 %		
IT	51%	49%	35%	65%	37%	63%	47%	53%	29%	71%	41%	59%	40%	60%	23%	77%	29%	71%		83%	36%	64%	23%	77%	23%	77%	27%	73%
CY	35%	65%	25%	75%	31%	69%	37%	63%	27%	73%			34%	66%	26%	74%	18%	82%	25%	75%	25%	75%	16%	84%	15%	85%		89%
LV	35%	65%					35%	65%		75%			19%	81%		85%	17%	83%			15%	85%	10%	90%	11%	89%		
LT	48%	52%					28%	72%					33%	67%			21%	79%				94%		96%	9%	91%		100 %
LU		65%						78%		86%		83%										90%		94%		89%		91%
HU	50%	50%	23%	77%	23%	77%	25%	75%	15%	85%	17%	83%	14%	86%	10%	90%	20%	80%	16%	84%	14%	86%	16%	84%	14%	86%	10%	90%
MT	26%	74%						91%		93%		78%		89%		98%		96%		96%		94%		96%		95%		100 %
NL	45%	55%	28%	72%	35%	65%	34%	66%	17%	83%	19%	81%	21%	79%	14%	86%	18%	82%	9%	91%	13%	87%	7%	93%	6%	94%	4%	96%
NO	40%	60%	28%	72%	27%	73%	24%	76%	11%	89%	16%	84%	13%	87%	14%	86%		100 %	9%	91%	10%	90%	6%	94%	6%	94%		95%
AT	43%	57%		56%		68%	22%	78%		84%			17%	83%		89%	10%	90%	13%	87%	16%	84%	6%	94%	9%	91%		91%

	ISCED 2 or below						ISCED 3-4gen						ISCED 3-4voc								ISCED 5-8							
	no work exp.		work outside curr.		trainee/ apprentice		no work exp.		work outside curr.		trainee/ apprentice		no work exp.		work outside curr.		traineeship		apprentice-ship		no work exp.		work outside curr.		traineeship		apprentice-ship	
	not employed	employed	not employed	employed	not employed	employed	not employed	employed	not employed	employed	not employed	employed	not employed	employed	not employed	employed	not employed	employed	not employed	employed	not employed	employed	not employed	employed	not employed	employed	not employed	employed
PL	57%	43%					27%	73%	19%	81%		85%	23%	77%	17%	83%	24%	76%	25%	75%	13%	87%	5%	95%	11%	89%	9%	91%
PT	27%	73%	19%	81%		69%	19%	81%	13%	87%			25%	75%	27%	73%	19%	81%			20%	80%	13%	87%	15%	85%		
RO	39%	61%	29%	71%			31%	69%		69%			23%	77%		75%	28%	72%			11%	89%		84%		94%		
SI	48%	52%					23%	77%	24%	76%		85%	17%	83%	14%	86%	16%	84%	16%	84%	19%	81%	20%	80%	15%	85%		89%
SK	67%	33%					26%	74%		78%			21%	79%	14%	86%	25%	75%	16%	84%	26%	74%	11%	89%	21%	79%	12%	88%
FI					50%	50%	37%	63%	23%	77%			35%	65%	16%	84%	20%	80%	13%	87%	24%	76%	17%	83%	16%	84%		94%
SE	40%	60%	29%	71%		80%	24%	76%	12%	88%		82%		84%	14%	86%	7%	93%		93%	20%	80%	8%	92%	5%	95%		97%
CH	31%	69%	59%	41%	14%	86%	24%	76%	27%	73%	23%	77%	11%	89%	17%	83%	15%	85%	12%	88%	18%	82%	6%	94%	9%	91%	9%	91%
UK	40%	60%	24%	76%	18%	82%	20%	80%	15%	85%	17%	83%	28%	72%	15%	85%	15%	85%	10%	90%	15%	85%	8%	92%	10%	90%	6%	94%
Total	46%	54%	29%	71%	43%	57%	32%	68%	19%	81%	25%	75%	29%	71%	17%	83%	24%	76%	15%	85%	19%	81%	10%	90%	13%	87%	10%	90%
EU -27	47%	53%	30%	70%	47%	53%	35%	65%	20%	80%	27%	73%	29%	71%	17%	83%	24%	76%	15%	85%	20%	80%	11%	89%	14%	86%	11%	89%

NA: no respondents available | **(c): confidential** | **(a): low reliability, too low to be published** | **(u): low reliability, flagged publication**

NB: * High item non-response (>15%), results to be treated with caution.
'Employed': employed.
'Not employed': inactive or unemployed.
'No work exp.': no work experience during highest level of education.
'Work outside curr.': work experience outside curriculum.
'Trainee/apprentice': traineeships/apprenticeships (EU-LFS AHM 2016 def.).
'Traineeship': traineeships (EU-LFS AHM 2016 def.).
'Apprenticeship': apprenticeships (EU-LFS AHM 2016 def.).
'ISCED 2 or below': low-level education, i.e. at most lower secondary education.
'ISCED 3-4 gen': general medium-level education.
'ISCED 3-4 voc': vocational medium-level education.
'ISCED 5-8': tertiary education.

Source: Eurostat EU-LFS 2016 AHM microdata, own calculations.

ANNEX 11.

Non-precariousness of graduates' employment

Table A.10. **Non-precariousness of employment of graduates by highest education attained and type of work experience at that level, 2016**

	ISCED 2 or below						ISCED 3-4gen						ISCED 3-4voc								ISCED 5-8							
	no work exp.		work outside curr.		trainee/ apprentice		no work exp.		work outside curr.		trainee/ apprentice		no work exp.		work outside curr.		traineeship		apprentice-ship		no work exp.		work outside curr.		traineeship		apprentice-ship	
	no tempdur3	tempdur3	no tempdur3	tempdur3	no tempdur3	tempdur3	no tempdur3	tempdur3	no tempdur3	tempdur3	no tempdur3	tempdur3	no tempdur3	tempdur3	no tempdur3	tempdur3	no tempdur3	tempdur3	no tempdur3	tempdur3	no tempdur3	tempdur3	no tempdur3	tempdur3	no tempdur3	tempdur3	no tempdur3	tempdur3
BE	89%	11%	90%		90%		94%		97%		96%		94%	6%	93%		94%	6%	89%		95%		97%		98%	2%	95%	
BG	94%						99%		100 %				100 %		100 %		100 %				100 %		100 %		100 %			
CZ							99%		100 %		100 %		99%	1%	99%	1%	99%	1%	99%	1%	100 %		99%		100 %		100 %	
DK	96%		99%		94%		92%		97%		97%		97%		99%		100 %		99%		100 %		98%		98%		98%	
DE	98%						95%						98%		100 %		100 %		99%		99%		100 %		99%		99%	
EE	99%				100 %		99%		100 %				100 %		96%		99%				99%		100 %		98%			
IE	100 %						100 %		100 %				99%		100 %		100 %		99%		100 %		100 %		100 %		100 %	
EL	97%	3%	89%	11%	97%		96%	4%	96%				97%	3%	100 %		95%		98%		99%	1%	99%		100 %		98%	2%
ES	89%	11%	91%	9%	76%	24%	93%	7%	97%	3%	100 %		92%	8%	95%	5%	91%	9%	99%	1%	94%	6%	93%	7%	91%	9%	97%	
FR	86%				79%	21%	85%		83%		91%		89%		90%		90%	10%	90%	10%	95%		96%		95%	5%	96%	
HR	73%	27%											86%	14%	91%		76%	24%	94%		94%	6%	93%		100 %		100 %	
IS	96%		97%				100 %		89%		93%								100 %		93%		93%		91%			
IT	93%	7%	91%	9%	87%		93%	7%	94%	6%	96%		94%	6%	93%	7%	94%	6%	98%		96%	4%	95%	5%	97%	3%	100 %	
CY	100 %		100 %		100 %		99%		100 %				100 %		100 %		100 %		98%		100 %		99%		99%		100 %	

	ISCED 2 or below						ISCED 3-4gen						ISCED 3-4voc								ISCED 5-8							
	no work exp.		work outside curr.		trainee/ apprentice		no work exp.		work outside curr.		trainee/ apprentice		no work exp.		work outside curr.		traineeship		apprentice-ship		no work exp.		work outside curr.		traineeship		apprentice-ship	
	no tempdur3	tempdur3	no tempdur3	tempdur3	no tempdur3	tempdur3	no tempdur3	tempdur3	no tempdur3	tempdur3	no tempdur3	tempdur3	no tempdur3	tempdur3	no tempdur3	tempdur3	no tempdur3	tempdur3	no tempdur3	tempdur3	no tempdur3	tempdur3	no tempdur3	tempdur3	no tempdur3	tempdur3	no tempdur3	tempdur3
LV	98%						98%		100 %				100 %		100 %		98%				100 %		100 %		99%			
LT	94%						100 %						98%				97%				99%		100 %		99%		100 %	
LU	97%						95%		96%		100 %										100 %		100 %		99%		100 %	
HU	90%	10%	99%		90%		98%	2%	98%		98%		98%		98%		97%	3%	98%		100 %		95%		98%	2%	96%	
MT	98%						99%		100 %				100 %		100 %		100 %		100 %		100 %		100 %		100 %		100 %	
NL	98%		98%		100 %		100 %		99%		100 %		100 %		100 %		99%	1%	97%	3%	99%		99%		99%	1%	99%	
NO	99%		99%		97%		98%		98%		97%		100 %		98%		100 %		100 %		99%		100 %		99%		97%	
AT	99%				97%		100 %		99%				100 %		98%		99%		99%		99%		100 %		99%		99%	
PL	81%	19%					93%	7%	92%		100 %		94%	6%	89%	11%	93%	7%	91%	9%	96%	4%	96%	4%	97%	3%	97%	
PT	94%	6%	95%		92%		96%		99%				96%		100 %		94%				94%		96%		95%			
RO	99%						100 %						100 %		100 %		99%				100 %		100 %		100 %			
SI	82%	18%					97%		95%		100 %		90%	10%	92%	8%	94%	6%	90%	10%	98%		92%	8%	93%	7%	93%	
SK	96%						100 %		96%				97%	3%	98%		98%	2%	97%		99%		94%	6%	100 %		98%	
FI					92%		98%		91%	9%			96%		96%		96%	4%	99%		93%		97%		95%	5%	100 %	
SE	89%		98%		96%		87%		96%		95%		93%		95%		97%		95%		97%		99%		98%		100 %	

	ISCED 2 or below						ISCED 3-4gen						ISCED 3-4voc								ISCED 5-8							
	no work exp.		work outside curr.		trainee/ apprentice		no work exp.		work outside curr.		trainee/ apprentice		no work exp.		work outside curr.		traineeship		apprentice-ship		no work exp.		work outside curr.		traineeship		apprentice-ship	
	no tempdur3	tempdur3	no tempdur3	tempdur3	no tempdur3	tempdur3	no tempdur3	tempdur3	no tempdur3	tempdur3	no tempdur3	tempdur3	no tempdur3	tempdur3	no tempdur3	tempdur3	no tempdur3	tempdur3	no tempdur3	tempdur3	no tempdur3	tempdur3	no tempdur3	tempdur3	no tempdur3	tempdur3	no tempdur3	tempdur3
CH	97%	3%	91%	9%	100 %		96%	4%	100 %		95%	5%	100 %		100 %		100 %		99%	1%	100 %		99%	1%	96%	4%	100 %	
UK	99%		100 %		98%		100 %		100 %		100 %		100 %		100 %		99%		99%		99%	1%	99%	1%	99%		99%	
Total	94%	6%	95%	5%	88%	12%	96%	4%	96%	4%	94%	6%	96%	4%	96%	4%	94%	6%	98%	2%	98%	2%	98%	2%	97%	3%	98%	2%
EU -27	92%	8%	93%	7%	86%	14%	94%	6%	93%	7%	93%	7%	95%	5%	96%	4%	94%	6%	98%	2%	97%	3%	97%	3%	97%	3%	97%	3%

NA: no respondents available | **(c): confidential** | **(a): low reliability, too low to be published** | **(u): low reliability, flagged publication**

NB: * High item non-response (>15%), results to be treated with caution.
'No tempdur3': total duration of temporary job or work contract of limited duration is less than three months.
'Tempdur3': total duration of temporary job or work contract of limited duration is three months or more.
'No work exp.': no work experience during highest level of education.
'Work outside curr.': work experience outside curriculum.
'Trainee/apprentice': traineeships/apprenticeships (EU-LFS AHM 2016 def.).
'Traineeship': traineeships (EU-LFS AHM 2016 def.).
'Apprenticeship': apprenticeships (EU-LFS AHM 2016 def.).
'ISCED 2 or below': low-level education, i.e. at most lower secondary education.
'ISCED 3-4 gen': general medium-level education.
'ISCED 3-4 voc': vocational medium-level education.
'ISCED 5-8': tertiary education.

Source: Eurostat EU-LFS 2016 AHM microdata, own calculations.

ANNEX 12.

Skills intensity of graduates' employment

Table A.11. **Skills intensity of graduates' main job by highest education attained and type of work experience at that level, 2016**

	ISCED 2 or below									ISCED 3-4gen									ISCED 3-4voc					
	no work exp.			work outside curr.			trainee/apprentice			no work exp.			work outside curr.			trainee/apprentice			no work exp.			work outside curr.		
	high skills intensity	medium skills intensity	low skills intensity	high skills intensity	medium skills intensity	low skills intensity	high skills intensity	medium skills intensity	low skills intensity	high skills intensity	medium skills intensity	low skills intensity	high skills intensity	medium skills intensity	low skills intensity	high skills intensity	medium skills intensity	low skills intensity	high skills intensity	medium skills intensity	low skills intensity	high skills intensity	medium skills intensity	low skills intensity
BE	9%	60%	31%		67%	29%		64%	30%	15%	68%	18%	19%	71%			59%		10%	72%	18%	16%	73%	
BG		54%	46%							9%	80%	11%		60%					10%	76%	14%		82%	
CZ		NA	NA							31%	66%	2%	40%	53%	7%	32%	56%		21%	73%	6%	29%	67%	4%
DK		48%	46%		75%						58%	26%	16%	72%	12%				17%	76%		21%	73%	
DE		56%	37%								52%								70%	26%		33%	64%	
EE		81%	17%							30%	63%			53%					16%	72%				
IE		59%	30%							16%	65%	19%	20%	63%	16%				25%	64%	11%		72%	
EL	3%	60%	38%		65%	35%		82%		5%	83%	12%		85%	10%				12%	79%	8%	12%	82%	7%
ES	4%	67%	29%	8%	69%	23%		68%	32%	7%	69%	23%	11%	70%	19%		100%		9%	73%	18%	8%	79%	13%
FR		64%	27%					66%	24%		69%		33%	60%		30%	58%			71%			57%	
HR		43%	57%								82%								9%	84%	7%		78%	
IS		62%	17%	16%	69%	16%							32%	51%	17%									
IT	4%	71%	26%		60%	34%		69%	25%	15%	75%	10%	19%	70%	11%	23%	66%		14%	73%	13%	14%	74%	12%
CY		43%	55%		33%	64%		64%		9%	68%	23%	14%	62%	24%					75%	17%		76%	13%
LV		72%	27%							12%	68%	20%		92%					19%	62%	18%			
LT		57%	37%							18%	72%	10%								74%				
LU		73%											50%			33%	60%							
HU		50%	49%		68%			63%	33%	17%	72%	11%	32%	58%		35%	60%		15%	76%	9%	24%	72%	
MT		72%	21%							17%	76%			72%						62%				
NL	12%	64%	24%	22%	70%	8%	19%	70%	11%	55%	40%	6%	26%	65%	8%	29%	65%		34%	53%	13%	38%	56%	6%
NO	16%	74%	11%	15%	77%	8%	12%	84%		23%	69%	8%	23%	73%	4%	28%	67%		17%	80%	3%	24%	74%	3%
AT	9%	56%	36%							35%	48%		60%	37%					28%	66%		32%	65%	
PL		69%	29%							14%	74%	12%	18%	75%			91%		15%	75%	10%	15%	72%	12%

	ISCED 2 or below									ISCED 3-4gen									ISCED 3-4voc					
	no work exp.			work outside curr.			trainee/apprentice			no work exp.			work outside curr.			trainee/apprentice			no work exp.			work outside curr.		
	high skills intensity	medium skills intensity	low skills intensity	high skills intensity	medium skills intensity	low skills intensity	high skills intensity	medium skills intensity	low skills intensity	high skills intensity	medium skills intensity	low skills intensity	high skills intensity	medium skills intensity	low skills intensity	high skills intensity	medium skills intensity	low skills intensity	high skills intensity	medium skills intensity	low skills intensity	high skills intensity	medium skills intensity	low skills intensity
PT	5%	77%	17%		74%	17%				20%	70%	10%	19%	78%					11%	75%	15%		60%	
RO		64%	36%							6%	85%	10%							12%	81%	8%		67%	
SI		72%	18%							47%	53%		37%	63%					11%	82%	7%	21%	75%	4%
SK		46%	54%							21%	72%			58%					13%	78%	9%	20%	72%	
FI								71%	22%	31%	50%		20%	66%	13%					75%	14%	15%	79%	
SE		67%			71%			75%			72%		37%	59%		27%	62%			76%		22%	73%	
CH		66%	24%	10%	83%	8%	56%	14%	29%	30%	69%	1%	57%	43%		68%	32%		45%	55%		33%	67%	
UK	15%	57%	28%	24%	55%	21%	20%	62%	18%	31%	55%	14%	43%	51%	6%	41%	47%		19%	59%	22%	31%	57%	12%
Total	7%	64%	30%	14%	65%	21%	11%	67%	22%	19%	68%	13%	32%	60%	8%	32%	58%	10%	18%	70%	12%	25%	66%	9%
EU-27	5%	65%	30%	10%	67%	22%	9%	68%	23%	15%	72%	13%	27%	64%	9%	29%	61%	10%	17%	72%	11%	24%	69%	8%

NA: no respondents available | **(c): confidential** | **(a): low reliability, too low to be published** | **(u): low reliability, flagged publication**

NB: * High item non-response (>15%), results to be treated with caution.
'High skills intensity': categories 100, 200, 300 on ISCO variable.
'Medium skills intensity': categories 400, 500, 600, 700, 800 on ISCO variable.
'Low skills intensity': category 900 on ISCO variable.
'No work exp.': no work experience during highest level of education.
'Work outside curr.': work experience outside curriculum.
'Trainee/apprentice': traineeships/apprenticeships (EU-LFS AHM 2016 def.).
'ISCED 2 or below': low-level education, i.e. at most lower secondary education.
'ISCED 3-4 gen'": general medium-level education.
'ISCED 3-4 voc': vocational mediumlevel education.

Source: Eurostat EU-LFS 2016 AHM microdata, own calculations.

Table A.11. **Skills intensity of graduates' main job by highest education level and work experience, 2016 (continuation)**

	ISCED 3-4voc						ISCED 5-8											
	traineeship			apprenticeship			no work exp.			work outside curr.			traineeship			apprenticeship		
	high skills intensity	medium skills intensity	low skills intensity	high skills intensity	medium skills intensity	low skills intensity	high skills intensity	medium skills intensity	low skills intensity	high skills intensity	medium skills intensity	low skills intensity	high skills intensity	medium skills intensity	low skills intensity	high skills intensity	medium skills intensity	low skills intensity
BE	16%	70%	14%		71%	22%	77%	21%		82%	17%		81%	19%		93%		
BG	15%	74%	12%				60%	38%		62%	36%		81%	18%				
CZ	20%	75%	4%	8%	84%	7%	78%	21%		74%	25%	1%	86%	14%		87%	12%	
DK		83%		17%	78%		77%			90%	7%		78%			76%		
DE	58%	33%		26%	68%	6%	79%	19%		86%	14%		87%			78%		
EE	14%	75%					67%	33%		86%			78%	21%				
IE		84%			82%		61%	34%	4%	65%	32%		74%	25%		78%		
EL	17%	83%		22%	68%	11%	60%	38%	2%	49%	50%		60%	40%		36%	63%	
ES	10%	80%	9%	10%	90%		57%	40%	4%	61%	36%	3%	50%	46%	3%	67%	32%	
FR	17%	69%	14%	17%	73%	11%	74%	25%		70%	28%		69%	29%		79%	20%	
HR		82%	7%		77%		78%	22%		79%	21%		82%					
IS										81%	18%		71%					
IT	18%	75%	8%		75%		66%	31%	4%	62%	36%	2%	74%	26%		95%		
CY		84%	13%		64%		55%	42%	3%	52%	39%	9%	64%	33%		71%	29%	
LV	16%	70%	14%				61%	33%		81%	18%		79%	18%				
LT		76%	15%				76%	21%		69%	29%		69%	28%		59%		
LU							95%			93%			94%			95%		
HU	13%	78%	9%	9%	86%	5%	80%			87%	12%		77%	22%		82%	18%	
MT		63%		52%			81%			93%			87%			75%		
NL	31%	62%	7%	37%	55%	7%	83%	14%		83%	16%	1%	81%	18%	1%	84%	15%	
NO	26%	74%		15%	84%		77%	21%	2%	81%	19%	1%	87%	12%		70%	30%	
AT	38%	58%		22%	72%	6%	59%	37%		71%	28%		68%	31%		78%	22%	
PL	15%	76%	10%	3%	85%	12%	69%	30%	1%	74%	25%		73%	26%		81%	19%	
PT	17%	74%					74%	22%		78%	22%		73%	25%				
RO	15%	77%	8%				75%	25%		72%	27%		69%	30%				

	ISCED 3-4voc						ISCED 5-8											
	traineeship			apprenticeship			no work exp.			work outside curr.			traineeship			apprenticeship		
	high skills intensity	medium skills intensity	low skills intensity	high skills intensity	medium skills intensity	low skills intensity	high skills intensity	medium skills intensity	low skills intensity	high skills intensity	medium skills intensity	low skills intensity	high skills intensity	medium skills intensity	low skills intensity	high skills intensity	medium skills intensity	low skills intensity
SI	16%	79%	5%	25%	74%		70%	28%		72%	27%		69%	31%		70%	30%	
SK	10%	81%	8%	6%	84%	10%	61%	38%		69%	30%		72%	26%		79%	20%	
FI	11%	81%	8%	14%	78%		55%	28%		80%	19%		72%	27%	2%	83%	15%	
SE	15%	80%	6%		89%		73%	23%		85%	15%		84%	15%		88%		
CH	72%	28%		33%	64%	3%	79%	14%	8%	87%	13%		94%	6%		79%	21%	
UK	25%	63%	12%	29%	65%	7%	66%	30%	4%	68%	29%	3%	71%	26%	3%	76%	23%	
Total	18%	72%	10%	24%	70%	7%	69%	28%	3%	74%	25%	2%	73%	25%	2%	77%	22%	1%
EU-27	18%	73%	10%	23%	71%	7%	70%	28%	2%	75%	23%	1%	73%	25%	2%	78%	22%	

NA: no respondents available | **(c): confidential** | **(a): low reliability, too low to be published** | **(u): low reliability, flagged publication**

NB: * High item non-response (>15%), results to be treated with caution.
'High skills intensity': categories 100, 200, 300 on ISCO variable.
'Medium skills intensity': categories 400, 500, 600, 700, 800 on ISCO variable.
'Low skills intensity': category 900 on ISCO variable.
'No work exp.': no work experience during curriculum.
'Work outside curr.': work experience outside curriculum.
'Traineeship': traineeships (EU-LFS AHM 2016 def.).
'Apprenticeship': apprenticeships (EU-LFS AHM 2016 def.).
'ISCED 3-4 voc': vocational medium-level education.
'ISCED 5-8': tertiary education.
Source: Eurostat EU-LFS 2016 AHM microdata, own calculations.

ANNEX 13.

Graduates looking for another job

Table A.12. **Graduates not looking for another job, by highest education attained and type of work experience at that level, 2016**

	ISCED 2 or below						ISCED 3-4gen						ISCED 3-4voc								ISCED 5-8							
	no work exp.		work outside curr.		trainee/ apprentice		no work exp.		work outside curr.		trainee/ apprentice		no work exp.		work outside curr.		trainee-ship		apprentice-ship		no work exp.		work outside curr.		trainee-ship		apprentice-ship	
	not lookoj	lookoj	not lookoj	lookoj	not lookoj	lookoj	not lookoj	lookoj	not lookoj	lookoj	not lookoj	lookoj	not lookoj	lookoj	not lookoj	lookoj	not lookoj	lookoj	not lookoj	lookoj	not lookoj	lookoj	not lookoj	lookoj	not lookoj	lookoj	not lookoj	lookoj
BE	94%	6%	84%		99%		94%		93%		91%		96%	4%	95%		94%	6%	91%		96%	4%	91%	9%	94%	6%	86%	
BG	99%						99%		100 %		[2]%		100%		100 %		99%				99%		98%		100 %			
CZ							99%		97%		100%		98%	2%	97%	3%	98%	2%	97%	3%	98%	2%	98%	2%	98%	2%	100 %	
DK	95%		80%		93%		91%		87%	13%	97%		91%		80%		91%		91%	9%	85%		84%	16%	86%	14%	90%	
DE	96%						97%						96%		94%		94%		96%	4%	97%		94%		96%		94%	
EE	94%						98%		98%				95%		96%		93%				96%		93%		96%		100 %	
IE	99%						97%		96%				93%		93%		95%		97%		96%	4%	95%	5%	97%		98%	
EL	88%	12%	87%	13 %	93%		96%	4%	91%	9%			93%	7%	93%	7%	91%		93%	7%	96%	4%	93%	7%	93%	7%	98%	2%
ES	88%	12%	78%	22 %	92%		89%	11%	90%	10%	92%		89%	11%	80%	20%	84%	16%	96%		93%	7%	89%	11%	87%	13%	88%	12%
FR	93%				87%		91%		93%		93%		95%		86%		93%	7%	94%		95%		93%		92%	8%	92%	8%
HR	75%												91%	9%	78%	22%	87%	13%	98%		87%	13%	78%	22%	85%		91%	
IS	89%		93%						88%						100 %		100 %		92%		81%		89%		87%			
IT	96%	4%	94%	6%	92%		94%	6%	88%	12%	94%	6%	97%	3%	95%	5%	94%	6%	100 %		95%	5%	93%	7%	93%	7%	97%	
CY	95%	5%	97%		84%		87%	13%	87%	13%			92%		86%		87%	13%	88%		88%	12%	89%	11%	91%	9%	94%	
LV	99%						100 %		98%				99%		100 %		99%				99%		96%		100 %			
LT	95%						99%						98%				96%				95%		98%		97%		100 %	
LU	91%						80%		86%		87%										89%		91%		87%		92%	
HU	97%	3%	100 %		98%		100 %		99%		99%		100%		98%		99%	1%	99%		99%		100 %		99%		99%	
MT	97%						97%		97%				97%		100 %		94%		99%		97%		100 %		98%		100 %	
NL	97%	3%	94%	6%	95%	5%	87%	13%	91%	9%	95%		94%	6%	94%	6%	92%	8%	89%	11%	97%		91%	9%	89%	11%	93%	7%
NO	87%	13%	76%	24 %	92%		90%	10%	73%	27%	89%		91%	9%	83%	17%	94%		92%	8%	90%	10%	79%	21%	75%	25%	76%	24%

	ISCED 2 or below						ISCED 3-4gen						ISCED 3-4voc								ISCED 5-8							
	no work exp.		work outside curr.		trainee/ apprentice		no work exp.		work outside curr.		trainee/ apprentice		no work exp.		work outside curr.		trainee-ship		apprentice-ship		no work exp.		work outside curr.		trainee-ship		apprentice-ship	
	not lookoj	lookoj	not lookoj	lookoj	not lookoj	lookoj	not lookoj	lookoj	not lookoj	lookoj	not lookoj	lookoj	not lookoj	lookoj	not lookoj	lookoj	not lookoj	lookoj	not lookoj	lookoj	not lookoj	lookoj	not lookoj	lookoj	not lookoj	lookoj	not lookoj	lookoj
AT	94%		100 %		91%		92%		93%				98%		98%		96%		98%	2%	96%		95%	5%	96%	4%	97%	
PL	97%						97%	3%	92%		100%		97%	3%	95%	5%	96%	4%	98%	2%	98%	2%	96%	4%	96%	4%	92%	
PT	93%	7%	91%		94%		92%	8%	90%				94%		85%		89%	11%			85%	15%	87%	13%	83%	17%		
RO	98%	2%	95%				98%		100 %				99%	1%	100 %		97%				100 %		100 %		99%			
SI	94%						92%		91%		100%		94%	6%	95%	5%	96%	4%	96%		95%		92%	8%	87%	13%	92%	
SK	87%	13%					98%		100 %				99%		99%		96%	4%	95%	5%	98%		98%		97%		100 %	
FI	NA	NA	NA	NA	90%	10%	91%		85%	15%			88%	12%	89%	11%	85%	15%	91%	9%	74%	26%	87%	13%	83%	17%	89%	11%
SE	89%		90%		86%		98%		86%	14%	87%		90%		88%	12%	88%	12%	89%		93%		86%	14%	88%	12%	84%	
CH	91%	9%	90%	10 %	100 %		85%	15%	85%	15%	81%	19%	74%	26%	88%	12%	100 %		88%	12%	93%	7%	86%	14%	90%	10%	94%	6%
UK	90%	10%	90%	10 %	89%	11%	91%	9%	89%	11%	92%		90%	10%	85%	15%	89%	11%	92%	8%	91%	9%	88%	12%	86%	14%	91%	9%
Total	93%	7%	89%	11 %	90%	10%	94%	6%	90%	10%	92%	8%	95%	5%	91%	9%	94%	6%	95%	5%	95%	5%	90%	10%	92%	8%	93%	7%
EU-27	94%	6%	88%	12 %	90%	10%	95%	5%	91%	9%	92%	8%	96%	4%	92%	8%	94%	6%	96%	4%	96%	4%	92%	8%	93%	7%	93%	7%

NA: no respondents available | **(c): confidential** | **(a): low reliability, too low to be published** | **(u): low reliability, flagged publication**

NB: * High item non-response (>15%), results to be treated with caution.
'Lookoj': looking for another job.
'Not lookoj': not looking for another job.
'No work exp': no work experience during curriculum.
'Work outside curr.': work experience outside curriculum.
'Trainee/apprentice': traineeships/apprenticeships (EU-LFS AHM 2016 def.).
'Traineeship': traineeships (EU-LFS AHM 2016 def.).
'Apprenticeship': apprenticeships (EU-LFS AHM 2016 def.).
'ISCED 2 or below': low-level education, i.e. at most lower secondary education.
'ISCED 3-4 gen': general medium-level education.
'ISCED 3-4 voc': vocational medium-level education.
'ISCED 5-8': tertiary education.

Source: Eurostat EU-LFS 2016 AHM microdata, own calculations.

ANNEX 14.

Other graduate job quality indicators

The incidence of involuntary part-time work can be considered an indicator of underemployment. In the LFS, the incidence of part-time work refers to the main job, where the distinction between full-time and part-time work is made on the basis of a spontaneous answer given by the respondent. A part-time worker is an employed person whose normal hours of work are less than those of comparable full-time workers (ILO, 1994) ([3]). Part-time work is considered to be involuntary when respondents report, as the main reason, that they work part-time because they are unable to find full-time work (variable FTPREAS, answer code 5). As the incidence of involuntary part-time work is too low to be published in most countries, we report the incidence of not working involuntarily part-time. The incidence of involuntary temporary work can be seen as an indicator in a negative unfavourable relationship with quality of employment.

In the LFS, employees with a limited duration job/contract are employees whose main job will terminate either after a period fixed in advance, or after a period not known in advance, but nevertheless defined by objective criteria such as the completion of an assignment or the period of absence of an employee temporarily replaced. As such, it includes those with a seasonal job, with specific training contracts and those engaged by a temporary employment agency or business and hired out to a third party for the carrying out of a work mission. The variable TEMPREAS makes it possible to separate temporary jobs due to a selection process or training from other situations whether the temporary status is unwanted. As the incidence of involuntary temporary work is too low to be published in most countries, we report the incidence of being employed but not having an involuntarily temporary job. Finally, we examine the participation in training of respondents aged 20 to 34, who are not in formal education. The variable covers participation in non-formal learning activities (courses, seminars, conferences, private lessons) in the four weeks prior to the survey. As the incidence of participation is too low to be published in most countries, we report the non-participation rates.

([3]) ILO (1994). Defending values, promoting change. Social justice in a global economy: an ILO agenda. Report of the Director-General, *International Labour Conference, 81st session, Geneva, 1994*.

Table A.13. **Graduates with a voluntary temporary job by highest education attained and type of work experienced at that level, 2016**

	ISCED 2 or below						ISCED 3-4gen						ISCED 3-4voc								ISCED 5-8							
	no work exp.		work outside curr.		trainee/ apprentice		no work exp.		work outside curr.		trainee/ apprentice		no work exp.		work outside curr.		trainee-ship		apprentice-ship		no work exp.		work outside curr.		trainee-ship		apprentice-ship	
	not invol temp	invol temp	not invol temp	invol temp	not invol temp	invol temp	not invol temp	invol temp	not invol temp	invol temp	not invol temp	invol temp	not invol temp	invol temp	not invol temp	invol temp	not invol temp	invol temp	not invol temp	invol temp	not invol temp	invol temp	not invol temp	invol temp	not invol temp	invol temp	not invol temp	invol temp
BE	84%	16%	80%		85%		87%	13%	87%	13%	84%		89%	11%	87%	13%	88%	12%	85%		87%	13%	88%	12%	86%	14%	83%	
BG	81%	19%					95%	5%	98%				98%		100 %		98%				100 %		98%		100 %			
CZ							88%	12%	97%		81%		86%	14%	86%	14%	89%	11%	86%	14%	95%	5%	89%	11%	89%	11%	94%	6%
DK	87%		99%		95%		87%		90%	10%	97%		95%		96%		87%		97%		92%		89%	11%	89%		92%	
DE	96%						91%						95%		97%		97%		97%	3%	95%		96%		96%		99%	
EE	99%						100 %		100 %				100 %		100 %		100 %				100 %		100 %		100 %			
IE	92%						94%	6%	96%				95%		97%		99%		96%		93%	7%	93%	7%	94%		100 %	
EL	84%	16%	79%	21%	95%		86%	14%	82%	18%			86%	14%	91%	9%	83%	17%	93%		86%	14%	93%	7%	76%	24%	92%	8%
ES	57%	43%	67%	33%	48%	52%	71%	29%	70%	30%	88%		64%	36%	68%	32%	61%	39%	54%	46%	64%	36%	72%	28%	70%	30%	78%	22%
FR	77%	23%			75%	25%	80%		84%		81%	19%	84%	16%	82%		80%	20%	84%	16%	83%		89%		89%	11%	90%	10%
HR	48%	52%											65%	35%	66%	34%	69%	31%	68%	32%	76%	24%	75%	25%	58%	42%		
IS	100 %		100 %				100 %		99%		100 %								100 %		100 %		98%		97%			
IT	83%	17%	77%	23%	78%	22%	82%	18%	77%	23%	73%	27%	83%	17%	84%	16%	83%	17%	90%		80%	20%	83%	17%	78%	22%	80%	
CY	58%	42%	34%	66%	68%		75%	25%	79%	21%			84%	16%	84%		95%	5%	75%		78%	22%	75%	25%	72%	28%	92%	
LV	98%						99%		98%				95%		100 %		96%				98%		95%		99%			
LT	89%						100 %						100 %				93%				100 %		100 %		99%		96%	
LU	100 %						92%		91%		97%										95%		93%		92%		95%	
HU	62%	38%	92%		76%	24%	93%	7%	97%		98%		89%	11%	97%		91%	9%	93%	7%	99%		97%		96%	4%	99%	
MT	99%						94%		97%				96%		100 %		100 %		97%		98%		99%		96%		100 %	

NL	73%	27%	78%	22%	85%	15%	93%		90%	10%	81%	19%	88%	12%	85%	15%	83%	17%	85%	15%	86%	14%	87%	13%	86%	14%	89%	11%
NO	92%	8%	88%	12%	90%		90%	10%	89%	11%	97%		98%	2%	93%	7%	100 %		97%		92%	8%	90%	10%	86%	14%	86%	14%
AT	99%				100 %		100 %		99%				99%		99%		98%		100 %		99%		98%		99%		100 %	
PL	56%	44%					69%	31%	73%	27%	92%		73%	27%	68%	32%	66%	34%	64%	36%	82%	18%	84%	16%	82%	18%	78%	22%
PT	72%	28%	75%	25%			69%	31%	77%	23%			58%	42%	60%	40%	55%	45%			62%	38%	69%	31%	60%	40%		
RO	96%	4%					100 %						98%	2%	100 %		99%				99%		98%		99%			
SI	100 %						100 %		100 %		100 %		100 %		100 %		100 %		100 %		100 %		100 %		100 %		100 %	
SK	57%	43%					96%		96%				91%	9%	88%	12%	88%	12%	89%	11%	92%	8%	91%	9%	93%	7%	98%	
FI					86%	14%	85%		82%	18%			79%	21%	85%	15%	81%	19%	95%		71%	29%	82%	18%	78%	22%	90%	
SE	74%		88%		81%		81%		88%	12%	74%	26%	87%		87%	13%	89%	11%	90%		85%		94%	6%	89%	11%	84%	
CH	99%	1%	100 %		100 %		100 %		99%	1%	95%	5%	98%	2%	94%	6%	100 %		99%	1%	98%	2%	95%	5%	97%	3%	99%	1%
UK	96%	4%	98%		97%		98%	2%	99%		100 %		96%	4%	97%		98%		98%	2%	98%	2%	98%	2%	96%	4%	99%	
Total	80%	20%	85%	15%	82%	18%	86%	14%	90%	10%	86%	14%	86%	14%	89%	11%	83%	17%	94%	6%	88%	12%	91%	9%	88%	12%	93%	7%
EU -27	76%	24%	79%	21%	78%	22%	83%	17%	85%	15%	83%	17%	84%	16%	86%	14%	82%	18%	93%	7%	86%	14%	88%	12%	87%	13%	91%	9%

NA: no respondents available | **(c): confidential** | **(a): low reliability, too low to be published** | **(u): low reliability, flagged publication**

NB: * High item non-response (>15%), results to be treated with caution.
'Not invol temp': no involuntary temporary job.
'Invol temp': involuntary temporary job.
'No work exp.': no work experience during curriculum.
'Work outside curr.': work experience outside curriculum.
'Trainee/apprentice': traineeships/apprenticeships (EU-LFS AHM 2016 def.).
'Traineeship': traineeships (EU-LFS AHM 2016 def.).
'Apprenticeship': apprenticeships (EU-LFS AHM 2016 def.).
'ISCED 2 or below': low-level education, i.e. at most lower secondary education.
'ISCED 3-4 gen': general medium-level education.
'ISCED 3-4 voc': vocational medium-level education.
'ISCED 5-8': tertiary education.

Source: Eurostat EU-LFS 2016 AHM microdata, own calculations.

Table A.14. **Graduates with a voluntary part-time job by highest education attained and type of work experience at that level, 2016**

	ISCED 2 or below						ISCED 3-4gen						ISCED 3-4voc								ISCED 5-8							
	no work exp.		work outside curr.		trainee/ apprentice		no work exp.		work outside curr.		trainee/ apprentice		no work exp.		work outside curr.		traineeship		apprentice-ship		no work exp.		work outside curr.		traineeship		apprentice-ship	
	not involved pt	involved pt	not involved pt	involved pt	not involved pt	involved pt	not involved pt	involved pt	not involved pt	involved pt	not involved pt	involved pt	not involved pt	involved pt	not involved pt	involved pt	not involved pt	involved pt	not involved pt	involved pt	not involved pt	involved pt	not involved pt	involved pt	not involved pt	involved pt	not involved pt	involved pt
BE	95%	5%	93%		91%		98%		95%		82%		96%	4%	99%		97%	3%	91%		99%		98%		98%	2%	99%	
BG	95%						99%		100%				99%		100%		99%				99%		100%		99%			
CZ							97%		100%		100%		99%		99%	1%	99%	1%	99%	1%	99%		98%	2%	99%	1%	100%	
DK	90%		87%		100%		79%		86%	14%	100%		94%		97%		88%		97%		92%		96%	4%	97%		98%	
DE	90%						97%						95%		99%		98%		97%	3%	97%		98%		95%		99%	
EE	99%						96%		100%				100%		100%		99%		100%		99%		98%		100%		100%	
IE	83%	17%					87%	13%	89%	11%			88%	12%	88%		90%		94%		93%	7%	95%	5%	98%		100%	
EL	82%	18%	91%	9%	88%		89%	11%	91%	9%			88%	12%	90%	10%	90%	10%	88%	12%	91%	9%	91%	9%	95%	5%	95%	5%
ES	86%	14%	80%	20%	82%	18%	87%	13%	89%	11%	82%		83%	17%	89%	11%	84%	16%	98%		87%	13%	87%	13%	87%	13%	83%	17%
FR	74%	26%			82%	18%	84%		88%		81%		89%		91%		86%	14%	92%	8%	95%		93%		93%	7%	96%	
HR	98%						82%						98%		100%		99%		95%		95%	5%	96%		86%		100%	
IS	96%		99%				92%		92%		100%				100%		92%		100%		100%		97%		97%			
IT	82%	18%	87%	13%	85%	15%	71%	29%	68%	32%	70%	30%	83%	17%	83%	17%	85%	15%	85%		83%	17%	88%	12%	84%	16%	90%	
CY	87%	13%	94%		90%		86%	14%	91%	9%			88%	12%	93%		85%	15%	81%		91%	9%	90%	10%	84%	16%	91%	
LV	99%						97%		100%				98%		100%		94%				100%		99%		98%			
LT	97%						98%						100%				96%				97%		100%		99%		100%	
LU	100%						98%		96%		97%										100%		98%		97%		100%	
HU	97%	3%	99%		98%		99%		100%		98%		100%		98%		98%	2%	97%		100%		99%		99%		100%	

	ISCED 2 or below						ISCED 3-4gen						ISCED 3-4voc								ISCED 5-8							
	no work exp.		work outside curr.		trainee/ apprentice		no work exp.		work outside curr.		trainee/ apprentice		no work exp.		work outside curr.		traineeship		apprentice-ship		no work exp.		work outside curr.		traineeship		apprentice-ship	
	not invol pt	invol pt	not invol pt	invol pt	not invol pt	invol pt	not invol pt	invol pt	not invol pt	invol pt	not invol pt	invol pt	not invol pt	invol pt	not invol pt	invol pt	not invol pt	invol pt	not invol pt	invol pt	not invol pt	invol pt	not invol pt	invol pt	not invol pt	invol pt	not invol pt	invol pt
MT	95%						97%		97%				100 %		100 %		98%		100 %		100 %		100 %		99%		96%	
NL	90%	10%	90%	10%	92%	8%	91%	9%	97%		90%	10%	92%	8%	92%	8%	90%	10%	84%	16%	97%	3%	94%	6%	91%	9%	91%	9%
NO	90%	10%	86%	14%	92%		93%	7%	87%	13%	97%		98%	2%	94%	6%	100 %		98%		97%	3%	95%	5%	92%	8%	96%	
AT	91%	9%			84%		94%		95%				95%		96%		95%		98%	2%	96%		95%	5%	96%		98%	
PL	96%	4%					98%	2%	97%		100 %		98%	2%	98%		97%	3%	99%		99%	1%	99%		98%	2%	99%	
PT	94%	6%	97%		86%		94%		95%				91%	9%	92%		94%				94%		94%		92%			
RO	87%	13%	85%				96%	4%					97%	3%	96%		96%				100 %		97%		100 %			
SI	100 %						100 %		100 %		100 %		100 %		100 %		100 %		100 %		100 %		100 %		100 %		100 %	
SK	86%	14%					96%		95%				99%		99%		97%	3%	98%		98%		100 %		100 %		100 %	
FI					92%	8%	87%		89%	11%			95%		94%		91%	9%	96%		87%		96%	4%	94%	6%	97%	
SE	84%		85%		87%		87%		84%	16%	87%		90%		90%	10%	89%	11%	99%		96%		97%	3%	96%	4%	100 %	
CH	93%	7%	98%	2%	100 %		91%	9%	96%	4%	95%	5%	96%	4%	83%	17%	100 %		98%	2%	99%	1%	96%	4%	97%	3%	100 %	0%
UK	91%	9%	93%	7%	94%		93%	7%	97%	3%	97%		92%	8%	96%	4%	97%	3%	97%	3%	96%	4%	97%	3%	96%	4%	99%	
Total	88%	12%	90%	10%	87%	13%	91%	9%	91%	9%	87%	13%	92%	8%	94%	6%	92%	8%	96%	4%	95%	5%	96%	4%	94%	6%	97%	3%
EU -27	87%	13%	88%	12%	86%	14%	91%	9%	89%	11%	84%	16%	92%	8%	93%	7%	92%	8%	96%	4%	95%	5%	95%	5%	94%	6%	96%	4%

NA: no respondents available | **(c): confidential** | **(a): low reliability, too low to be published** | **(u): low reliability, flagged publication**

NB: * High item non-response (>15%), results to be treated with caution.
'Not invol pt': no involuntary part-time job.
'Invol pt': involuntary part-time job.

'No work exp': no work experience during curriculum.
'Work outside curr.': work experience outside curriculum.
'Trainee/apprentice': traineeships/apprenticeships (EU-LFS AHM 2016 def.).
'Traineeship': traineeships (EU-LFS AHM 2016 def.).
'Apprenticeship': apprenticeships (EU-LFS AHM 2016 def.).
'ISCED 2 or below': low-level education, i.e. at most lower secondary education.
'ISCED 3-4 gen': general medium-level education.
'ISCED 3-4 voc': vocational medium-level education.
'ISCED 5-8': tertiary education.

Source: Eurostat EU-LFS 2016 AHM microdata, own calculations.

Table A.15. **Graduates participation in training by highest education attained and work experience at that level, 2016**

	ISCED 2 or below						ISCED 3-4gen						ISCED 3-4voc								ISCED 5-8							
	no work exp.		work outside curr.		trainee/ apprentice		no work exp.		work outside curr.		trainee/ apprentice		no work exp.		work outside curr.		traineeship		apprentice-ship		no work exp.		work outside curr.		traineeship		apprentice-ship	
	not edutr	edutr	not edutr	edutr	not edutr	edutr	not edutr	edutr	not edutr	edutr	not edutr	edutr	not edutr	edutr	not edutr	edutr	not edutr	edutr	not edutr	edutr	not edutr	edutr	not edutr	edutr	not edutr	edutr	not edutr	edutr
BE	97%	3%	95%		94%		96%		92%		95%		98%		98%		95%	5%	96%		98%		87%	13%	90%	10%	91%	
BG	100 %						100 %		100 %		100 %		100 %		98%		100 %				99%		97%		98%			
CZ							90%	10%	92%	8%	80%	20%	93%	7%	92%	8%	93%	7%	90%	10%	93%	7%	89%	11%	86%	14%	88%	12%
DK	84%	16%	79%		76%		81%	19%	73%	27%			87%	13%	77%	23%	76%		77%	23%	80%	20%	72%	28%	69%	31%	83%	
DE	97%						92%						97%		89%		91%		94%	6%	93%	7%	84%	16%	87%		90%	
EE	94%						96%		79%				94%		88%		93%		100 %		85%		72%	28%	78%	22%		
IE	98%		100 %				98%		98%		96%		98%		97%		91%		98%		97%	3%	96%	4%	97%		95%	
EL	99%	1%	100 %		95%		98%	2%	98%				98%	2%	99%		98%		98%		94%	6%	95%	5%	96%	4%	95%	5%
ES	96%	4%	93%	7%	88%	12%	91%	9%	89%	11%	81%		94%	6%	92%	8%	89%	11%	97%		86%	14%	81%	19%	81%	19%	81%	19%
FR	92%	8%	81%		88%	12%	84%	16%	75%	25%	77%	23%	86%	14%	82%		83%	17%	81%	19%	79%	21%	65%	35%	68%	32%	67%	33%
HR	100 %						100 %						99%	1%	100 %		97%		100 %		96%		98%		100 %		100 %	
IS	93%		85%	15%			94%		85%	15%	85%				82%						80%		82%	18%	76%			
IT	97%	3%	96%	4%	92%		93%	7%	91%	9%	87%	13%	96%	4%	91%	9%	90%	10%	88%		92%	8%	81%	19%	83%	17%	83%	17%
CY	97%		97%		100 %		95%	5%	97%				96%		100 %		92%	8%	95%		89%	11%	91%	9%	90%	10%	85%	15%
LV	98%						96%		99%				96%		83%		92%				96%		87%	13%	93%	7%		
LT	99%						96%						99%				96%				94%		83%		94%	6%	89%	
LU	86%		82%		88%		97%		85%		83%						86%				79%		83%		68%	32%	74%	
HU	95%	5%	96%		91%		92%	8%	88%	12%	94%		89%	11%	95%		95%	5%	93%	7%	94%		90%		90%	10%	89%	
MT	99%						96%		94%		93%		98%		96%		97%		96%		96%		90%		88%		88%	
NL	94%	6%	89%	11%	89%	11%	69%	31%	79%	21%	72%	28%	94%	6%	87%	13%	84%	16%	85%	15%	80%	20%	81%	19%	81%	19%	79%	21%

	ISCED 2 or below						ISCED 3-4gen						ISCED 3-4voc								ISCED 5-8							
	no work exp.		work outside curr.		trainee/ apprentice		no work exp.		work outside curr.		trainee/ apprentice		no work exp.		work outside curr.		traineeship		apprentice-ship		no work exp.		work outside curr.		traineeship		apprentice-ship	
	not edutr	edutr	not edutr	edutr	not edutr	edutr	not edutr	edutr	not edutr	edutr	not edutr	edutr	not edutr	edutr	not edutr	edutr	not edutr	edutr	not edutr	edutr	not edutr	edutr	not edutr	edutr	not edutr	edutr	not edutr	edutr
NO	93%	7%	90%	10%	91%	9%	93%	7%	88%	12%	84%	16%	90%	10%	85%	15%	65%	35%	89%	11%	90%	10%	80%	20%	82%	18%	92%	8%
AT	92%	8%	76%		94%		85%		76%	24%			88%	12%	90%		89%	11%	91%	9%	90%	10%	78%	22%	80%	20%	81%	19%
PL	98%	2%					99%	1%	95%		96%		98%	2%	98%		98%	2%	98%	2%	97%	3%	91%	9%	94%	6%	94%	
PT	94%	6%	90%		96%		92%	8%	89%				92%	8%	94%		92%				86%	14%	82%	18%	80%	20%		
RO	100 %		99%		92%		99%		100 %				99%	1%	98%		99%		100 %		98%	2%	97%		94%			
SI	97%						88%		95%		96%		95%	5%	94%	6%	94%	6%	93%		93%		85%	15%	82%	18%	76%	24%
SK	100 %						97%		94%				98%	2%	96%		98%	2%	99%		98%		94%	6%	96%	4%	100 %	
FI					89%	11%	93%		78%	22%			92%	8%	93%	7%	88%	12%	83%	17%	82%	18%	74%	26%	73%	27%	70%	30%
SE	90%		80%	20%	84%		76%	24%	68%	32%	71%	29%	82%	18%	76%	24%	77%	23%	83%		77%	23%	65%	35%	58%	42%	75%	
CH	93%	7%	90%	10%	92%	8%	78%	22%	68%	32%	65%	35%	86%	14%	78%	22%	58%	42%	78%	22%	65%	35%	64%	36%	53%	47%	61%	39%
UK	95%	5%	92%	8%	85%	15%	92%	8%	86%	14%	90%	10%	95%	5%	89%	11%	88%	12%	89%	11%	90%	10%	83%	17%	77%	23%	81%	19%
Total	96%	4%	91%	9%	89%	11%	93%	7%	84%	16%	82%	18%	96%	4%	90%	10%	90%	10%	91%	9%	91%	9%	82%	18%	80%	20%	76%	24%
EU -27	97%	3%	91%	9%	89%	11%	94%	6%	83%	17%	81%	19%	96%	4%	90%	10%	90%	10%	92%	8%	92%	8%	82%	18%	81%	19%	77%	23%

NA: no respondents available | **(c): confidential** | **(a): low reliability, too low to be published** | **(u): low reliability, flagged publication**

NB: * High item non-response (>15%), results to be treated with caution.
'Edutr': participation in training.
'Not edutr': no participation in training.
'No work exp.': no work experience during curriculum.
'Work outside curr.': work experience outside curriculum.
'Trainee/apprentice': traineeships/apprenticeships (EU-LFS AHM 2016 def.).
'Traineeship': traineeships (EU-LFS AHM 2016 def.).
'Apprenticeship': apprenticeships (EU-LFS AHM 2016 def.).

'ISCED 2 or below': low-level education, i.e. at most lower secondary education.
'ISCED 3-4 gen': general medium-level education.
'ISCED 3-4 voc': vocational medium-level education.
'ISCED 5-8': tertiary education.

Source: Eurostat EU-LFS 2016 AHM microdata, own calculations.

ANNEX 15.

Country-specific logistic regression analyses on employment status

Table A.16. **Country-specific logistic regression analyses on employment status (being employed versus being unemployed/inactive) by highest education attained and experience of work-based learning as part of it (ref. work-based learning as part of vocational medium-level education)**

	AT				BE				BG				CH				CY			
	Est.	S.E.	O.R.	P	Est.	S.E.	O.R.	P	Est.	S.E.	O.R.	P	Est.	S.E.	O.R.	P	Est.	S.E.	O.R.	P
Intercept	1.93	0.13	6.92	***	1.36	0.14	3.91	***	1.51	0.32	4.55	***	1.98	0.14	7.22	***	1.42	0.77	4.13	
Education level and work-based learning																				
ISCED 2 or below	-1.63	0.20	0.20	***	-1.23	0.18	0.29	***	-2.09	0.36	0.12	***	-1.47	0.25	0.23	***	-0.71	0.91	0.49	
GEN34	-0.47	0.32	0.62		-0.37	0.22	0.69		-0.61	0.35	0.55		-0.88	0.25	0.42	***	-0.76	0.86	0.47	
SBV34	-0.21	0.32	0.81		0.03	0.22	1.04		-0.37	0.36	0.69		-0.14	0.54	0.87		-0.62	1.00	0.54	
WBT58	0.42	0.29	1.53		0.95	0.23	2.59	***	0.51	0.43	1.66		0.36	0.25	1.43		0.36	1.00	1.43	
SBT58	0.22	0.24	1.25		0.55	0.22	1.74	*	0.07	0.38	1.08		0.47	0.28	1.61		-0.17	0.83	0.84	

	DE				DK				EE				EL							
	Est.	S.E.	O.R.	P	Est.	S.E.	O.R.	P	Est.	S.E.	O.R.	P	Est.	S.E.	O.R.	P				
Intercept	1.88	0.04	6.57	0.00	2.52	0.38	12.48	***	1.70	0.47	5.50	***	0.37	0.27	1.45					
Education level and work-based learning																				
ISCED 2 or below	-1.64	0.07	0.19	***	-2.18	0.43	0.11	***	-0.87	0.60	0.42		-0.31	0.30	0.73					
GEN34	-1.59	0.11	0.20	***	-1.13	0.46	0.32	*	-0.74	0.59	0.48		0.03	0.29	1.03					
SBV34	0.02	0.12	1.02		-0.62	0.51	0.54		-0.37	0.67	0.69		0.03	0.30	1.03					
WBT58	1.28	0.19	3.59	***	-0.64	0.54	0.53		-0.30	0.65	0.74		0.67	0.33	1.96	*				
SBT58	0.46	0.09	1.58	***	-0.50	0.45	0.61		-0.11	0.63	0.89		0.24	0.29	1.26					

	ES				FI				FR				HR				HU			
	Est.	S.E.	O.R.	P	Est.	S.E.	O.R.	P	Est.	S.E.	O.R.	P	Est.	S.E.	O.R.	P	Est.	S.E.	O.R.	P
Intercept	1.12	0.16	3.06	***	1.46	0.15	4.30	***	0.91	0.04	2.48	***	0.97	0.21	2.64	***	1.42	0.11	4.14	***
Education level and work-based learning																				
ISCED 2 or below	-0.84	0.16	0.43	***	-1.44	0.31	0.24	***	-1.05	0.07	0.35	***	-1.24	0.38	0.29	**	-1.28	0.17	0.28	***
GEN34	-0.49	0.18	0.61	**	-0.47	0.34	0.62		-0.05	0.08	0.95		-0.25	0.68	0.78		-0.14	0.19	0.87	
SBV34	-0.27	0.18	0.77		-0.46	0.35	0.63		-0.25	0.09	0.78	**	-0.12	0.25	0.89		0.61	0.37	1.84	
WBT58	0.13	0.18	1.14		0.27	0.27	1.32		0.96	0.07	2.61	***	0.71	0.60	2.04		0.42	0.20	1.52	*
SBT58	0.06	0.17	1.06		0.05	0.33	1.05		0.56	0.10	1.74	***	0.83	0.32	2.30	**	0.26	0.35	1.30	

	IE				IT				LT				LU				LV			
	Est.	S.E.	O.R.	P	Est.	S.E.	O.R.	P	Est.	S.E.	O.R.	P	Est.	S.E.	O.R.	P	Est.	S.E.	O.R.	P
Intercept	1.52	0.45	4.58	***	0.91	0.07	2.49	***	1.44	0.32	4.20	***	1.04	1.22	2.84		1.61	0.40	4.99	***
Education level and work-based learning																				
ISCED 2 or below	-1.59	0.53	0.20	**	-0.90	0.08	0.41	***	-1.31	0.46	0.27	**	-0.27	1.36	0.76		-1.03	0.51	0.36	*
GEN34	-0.69	0.49	0.50		-0.64	0.10	0.53	***	-0.47	0.39	0.63		0.50	1.33	1.65		-0.92	0.47	0.40	**
SBV34	-0.51	0.53	0.60		-0.37	0.08	0.69	***	-0.50	0.51	0.61		1.07	2.38	2.91		-0.10	0.59	0.91	
WBT58	0.55	0.60	1.74		0.27	0.12	1.30	*	1.00	0.45	2.73	*	1.14	1.44	3.13		0.57	0.59	1.76	
SBT58	0.36	0.49	1.44		-0.12	0.10	0.89		1.49	0.63	4.45	*	1.41	1.53	4.08		0.38	0.57	1.46	

	MT				NL				NO				PL				PT			
	Est.	S.E.	O.R.	P	Est.	S.E.	O.R.	P	Est.	S.E.	O.R.	P	Est.	S.E.	O.R.	P	Est.	S.E.	O.R.	P
Intercept	3.16	1.96	23.64		1.95	0.13	7.04	***	2.44	0.55	11.51	***	1.14	0.06	3.14	***	1.45	0.25	4.26	***
Education level and work-based learning																				
ISCED 2 or below	-2.03	2.01	0.13		-1.22	0.19	0.30	***	-1.88	0.58	0.15	**	-1.41	0.12	0.24	***	-0.40	0.28	0.67	
GEN34	-0.97	2.13	0.38		-0.58	0.30	0.56		-0.96	0.60	0.38		-0.11	0.10	0.89		0.12	0.31	1.13	
SBV34	-0.75	2.43	0.47		-0.30	0.25	0.74		-0.56	0.62	0.57		0.11	0.09	1.11		-0.38	0.31	0.68	
WBT58	0.05	2.61	1.05		0.88	0.23	2.40	***	0.30	0.76	1.34		0.95	0.12	2.59	***	0.29	0.37	1.33	
SBT58	-0.19	2.34	0.83		0.54	0.26	1.71	*	0.05	0.60	1.05		1.04	0.11	2.83	***	0.16	0.30	1.18	

	RO				SE				SI				SK				UK			
	Est.	S.E.	O.R.	P	Est.	S.E.	O.R.	P	Est.	S.E.	O.R.	P	Est.	S.E.	O.R.	P	Est.	S.E.	O.R.	P
Intercept	0.93	0.17	2.52	***	2.54	0.23	12.66	***	1.64	0.39	5.15	***	1.22	0.12	3.39	***	2.04	0.09	7.67	***
Education level and work-based learning																				
ISCED 2 or below	-0.47	0.19	0.63	*	-1.71	0.30	0.18	***	-1.63	0.60	0.20	**	-1.88	0.27	0.15	***	-1.48	0.10	0.23	***
GEN34	-0.14	0.21	0.87		-0.82	0.29	0.44	**	-0.41	0.75	0.66		-0.11	0.39	0.90		-0.54	0.11	0.58	***
SBV34	0.26	0.19	1.29		-0.76	0.32	0.47	*	0.02	0.50	1.02		0.19	0.21	1.21		-0.84	0.11	0.43	***
WBT58	1.89	0.56	6.64	***	0.44	0.40	1.55		0.18	0.59	1.19		0.23	0.26	1.25		0.31	0.14	1.36	*
SBT58	1.10	0.22	3.02	***	-0.34	0.29	0.71		-0.24	0.52	0.79		0.26	0.24	1.30		0.02	0.10	1.02	

NB: * p<0.05; **p<0.01; ***p<0.001.

'ISCED 2 or below': low-level education, i.e. at most lower secondary education.

'GEN34': general medium-level education, ISCED 3-4.

'SBV34': vocational medium-level education, ISCED 3-4, with no experience of work-based learning.

'WBT58': tertiary education, ISCED 5-8, with experience of work-based learning.

'SBT58': tertiary education, ISCED 5-8, with no experience of work-based learning.

Source: Eurostat EU-LFS 2016 AHM microdata, own calculations.

Table A.17. **Country-specific logistic regression analyses on employment status (being employed versus being unemployed/inactive) by highest education attained and experience of work-based learning as part of it (ref. work-based learning in vocational medium-level education), and sociodemographic background variables**

	AT				BE				BG				CH				CY				
	Est.	S.E.	O.R.	P	Est.	S.E.	O.R.	P	Est.	S.E.	O.R.	P	Est.	S.E.	O.R.	P	Est.	S.E.	O.R.	P	
Intercept	1,81	0,26	6,14	***	1,22	0,24	3,38	***	-0,16	2,35	0,85		2,75	0,29	15,68	***	1,75	0,96	5,76		
Education level and work-based learning																					
ISCED 2 or below	-1,30	0,22	0,27	***	-1,21	0,19	0,30	***	-2,06	0,37	0,13	***	-1,37	0,28	0,25	***	-1,06	0,96	0,35		
GEN34	-0,17	0,34	0,85		-0,28	0,23	0,76		-0,49	0,36	0,61		-0,87	0,26	0,42	***	-0,68	0,89	0,50		
SBV34	0,07	0,34	1,08		0,04	0,23	1,05		-0,40	0,37	0,67		-0,20	0,54	0,82		-0,64	1,04	0,52		
WBT58	0,45	0,31	1,57		1,06	0,24	2,89	***	0,65	0,44	1,92		0,25	0,27	1,28		0,56	1,04	1,76		
SBT58	0,36	0,26	1,44		0,62	0,24	1,86	**	0,19	0,40	1,21		0,23	0,30	1,26		0,09	0,87	1,09		
Sex (ref. male)	-0,42	0,17	0,66	*	-0,62	0,13	0,54	***	-0,78	0,16	0,46	***	-0,30	0,18	0,74		-0,61	0,42	0,54		
Marstat (ref. not married)	-0,10	0,20	0,91		0,15	0,17	1,16		0,13	0,18	1,14		-0,85	0,20	0,43	***	0,22	0,46	1,25		
Natbirth (ref. not native)	0,87	0,18	2,38		0,78	0,16	2,18	***	2,28	2,32	9,78		-0,05	0,20	0,95		-0,25	0,48	0,78		
Agecat (ref. 30-34)																					
20-24	-0,69	0,22	0,50	**	-0,64	0,18	0,53	***	-0,78	0,22	0,46	***	-0,70	0,24	0,50	**	-0,39	0,54	0,68		
25-29	-0,33	0,20	0,72		-0,17	0,15	0,84		-0,43	0,17	0,65	*	-0,11	0,22	0,90		0,11	0,46	1,12		

	DE				DK				EE				EL				ES				
	Est.	S.E.	O.R.	P	Est.	S.E.	O.R.	P	Est.	S.E.	O.R.	P	Est.	S.E.	O.R.	P	Est.	S.E.	O.R.	P	
Intercept	2,17	0,09	8,79	***	2,61	0,53	13,58	***	2,53	0,74	12,51	***	0,96	0,36	2,61	**	1,46	0,19	4,28	***	
Education level and work-based learning																					
ISCED 2 or below	-1,57	0,08	0,21	***	-2,11	0,43	0,12	***	-1,06	0,65	0,35		-0,51	0,32	0,60		-0,91	0,17	0,40	***	
GEN34	-1,51	0,12	0,22	***	-0,77	0,48	0,46		-0,65	0,62	0,52		-0,03	0,30	0,97		-0,39	0,19	0,68	*	
SBV34	0,20	0,12	1,22		-0,56	0,52	0,57		-0,31	0,71	0,73		-0,06	0,31	0,94		-0,24	0,19	0,78		
WBT58	1,20	0,19	3,33	***	-0,57	0,57	0,57		0,12	0,69	1,12		0,60	0,34	1,81		0,06	0,19	1,06		
SBT58	0,57	0,09	1,77	***	-0,44	0,47	0,65		0,25	0,67	1,28		0,21	0,30	1,23		-0,01	0,17	0,99		
Sex (ref. male)	-0,83	0,06	0,43	***	-0,53	0,23	0,59	*	-1,51	0,40	0,22	***	-0,80	0,12	0,45	***	-0,54	0,06	0,58	***	
Marstat (ref. not married)	-0,43	0,07	0,65	***	0,35	0,33	1,42		-0,68	0,41	0,51		0,03	0,14	1,03		-0,04	0,08	0,96		
Natbirth (ref. not native)	0,53	0,07	1,70	***	0,23	0,33	1,26		0,36	0,53	1,43		0,13	0,19	1,14		0,42	0,08	1,51	***	
Agecat (ref. 30-34)																					
20-24	-0,30	0,09	0,74	***	-0,54	0,33	0,58		-0,20	0,53	0,82		-0,92	0,18	0,40	***	-1,07	0,08	0,34	***	
25-29	-0,12	0,07	0,89		-0,07	0,27	0,93		-0,37	0,41	0,69		-0,22	0,13	0,80		-0,36	0,07	0,69	***	

	FI				FR				HR				HU				IE				
	Est.	S.E.	O.R.	P	Est.	S.E.	O.R.	P	Est.	S.E.	O.R.	P	Est.	S.E.	O.R.	P	Est.	S.E.	O.R.	P	P
Intercept	1,69	0,55	5,43	**	0,70	0,10	2,02	***	0,97	0,84	2,64		2,79	0,47	16,25	***	1,60	0,55	4,95	**	
Education level and work-based learning																					
ISCED 2 or below	-1,51	0,34	0,22	***	-0,97	0,07	0,38	***	-1,18	0,41	0,31	**	-1,31	0,18	0,27	***	-1,63	0,54	0,20	**	**
GEN34	-0,38	0,36	0,69		0,12	0,09	1,12		-0,11	0,69	0,90		0,10	0,20	1,11		-0,65	0,49	0,52		
SBV34	-0,45	0,37	0,64		-0,23	0,09	0,80	*	-0,02	0,26	0,98		0,72	0,38	2,05		-0,40	0,54	0,67		
WBT58	0,31	0,29	1,37		0,99	0,07	2,70	***	0,89	0,61	2,45		0,73	0,21	2,07	***	0,63	0,61	1,89		*
SBT58	0,09	0,37	1,10		0,65	0,11	1,91		1,07	0,35	2,92		0,63	0,37	1,88		0,56	0,50	1,75		*
Sex (ref. male)	-0,72	0,21	0,49	**	-0,65	0,05	0,52	***	-0,35	0,21	0,71		-1,33	0,15	0,26	***	-0,52	0,22	5,65	*	
Marstat (ref. not married)	-0,22	0,24	0,80		-0,03	0,07	0,97		0,19	0,24	1,21		-0,69	0,16	0,50	***	0,16	0,29	1,17		
Natbirth (ref. not native)	0,41	0,50	1,51		0,85	0,08	2,34	***	0,04	0,81	1,04		-0,41	0,45	0,66		0,19	0,27	1,21		
Agecat (ref. 30-34)																					
20-24	-0,41	0,28	0,66		-0,69	0,07	0,50	***	-0,15	0,27	0,86		-0,39	0,19	0,68	*	-0,18	0,28	0,84		
25-29	-0,23	0,24	0,80		-0,19	0,06	0,83	**	-0,06	0,23	0,94		-0,10	0,16	0,91		-0,01	0,26	0,99		

	IT				LT				LU				LV				MT				
	Est.	S.E.	O.R.	P	Est.	S.E.	O.R.	P	Est.	S.E.	O.R.	P	Est.	S.E.	O.R.	P	Est.	S.E.	O.R.	P	
Intercept	1,94	0,11	6,95	***	2,58	1,62	13,21		1,32	1,51	3,75		1,64	1,68	5,13		5,41	4,00	224,67		
Education level and work-based learning																					
ISCED 2 or below	-1,13	0,09	0,32	***	-1,37	0,48	0,25		-0,50	1,44	0,61		-0,87	0,54	0,42		-2,04	2,05	0,13		
GEN34	-0,57	0,10	0,56	***	-0,42	0,40	0,66		0,21	1,44	1,23		-0,72	0,50	0,49		-0,64	2,18	0,53		
SBV34	-0,52	0,08	0,59	***	-0,49	0,52	0,61		1,04	2,44	2,84		0,11	0,62	1,11		-0,71	2,47	0,49		
WBT58	0,20	0,13	1,22		1,00	0,46	2,71		0,96	1,52	2,60		0,93	0,64	2,54		0,37	2,65	1,44		
SBT58	-0,24	0,10	0,79	*	1,39	0,65	4,03		1,22	1,60	3,39		0,76	0,61	2,13		0,00	2,38	1,00		
Sex (ref. male)	-0,77	0,05	0,46		-0,54	0,29	0,59		-0,88	0,71	0,42		-0,92	0,32	0,40	**	-1,30	0,82	0,27		
Marstat (ref. not married)	-0,20	0,06	0,82	**	0,35	0,32	1,42		0,17	0,74	1,19		-0,08	0,36	0,92		-0,56	1,01	0,57		
Natbirth (ref. not native)	-0,13	0,07	0,88		-0,90	1,57	0,41		1,16	0,80	3,20		0,46	1,60	1,59		-1,46	3,42	0,23		
Agecat (ref. 30-34)																					
20-24	-0,95	0,07	0,39	***	-0,69	0,35	0,50		-0,67	0,94	0,51		-0,67	0,41	0,51		-0,33	1,13	0,72		
25-29	-0,40	0,06	0,67	***	0,16	0,33	1,18		0,35	0,80	1,42		-0,12	0,36	0,89		0,15	1,01	1,16		

	NL				NO				PL				PT				RO				
Intercept	Est.	S.E.	O.R.	P	Est.	S.E.	O.R.	P	Est.	S.E.	O.R.	P	Est.	S.E.	O.R.	P	Est.	S.E.	O.R.	P	
Education level and work-based learning	1,56	0,28	4,74	***	2,41	0,64	11,15	***	1,87	1,13	6,48		1,87	0,38	6,50	***	0,94	1,18	2,57		
ISCED 2 or below																					
GEN34	-1,29	0,20	0,28	***	-1,87	0,58	0,15	**	-1,54	0,12	0,21	***	-0,72	0,29	0,49	*	-0,44	0,20	0,64	*	
SBV34	-0,65	0,31	0,52	*	-0,84	0,61	0,43		0,03	0,11	1,03		-0,11	0,32	0,89		-0,06	0,22	0,94		
WBT58	-0,33	0,25	0,72		-0,55	0,63	0,58		0,13	0,09	1,14		-0,47	0,32	0,62		0,25	0,19	1,28		
SBT58	0,92	0,24	2,50	***	0,51	0,79	1,67		1,25	0,13	3,47	***	0,12	0,39	1,13		1,93	0,57	6,87	***	
Sex (ref. male)	0,51	0,26	1,67		0,17	0,61	1,18		1,32	0,11	3,73	***	-0,08	0,31	0,92		1,15	0,22	3,17	***	
Marstat (ref. not married)	-0,82	0,15	0,44	***	-0,37	0,23	0,69		-1,31	0,07	0,27	***	-0,45	0,15	0,64	**	-1,16	0,09	0,31	***	
Natbirth (ref. not native)	0,20	0,18	1,22		-0,08	0,30	0,92		0,16	0,07	1,17	*	0,59	0,20	1,81	**	0,14	0,10	1,15		
Agecat (ref. 30-34)	0,92	0,22	2,52	***	0,13	0,30	1,14		-0,09	1,12	0,91		0,31	0,25	1,36		0,69	1,16	1,99		
20-24	-0,15	0,20	0,86		-0,07	0,30	0,93		-0,23	0,10	0,80	*	-0,92	0,19	0,40	***	-0,61	0,12	0,54		
25-29	0,06	0,17	1,06		0,21	0,27	1,23		-0,15	0,08	0,86		-0,36	0,17	0,70	*	-0,08	0,10	0,93	***	

	SE				SI				SK				UK								
	Est.	S.E.	O.R.	P	Est.	S.E.	O.R.	P	Est.	S.E.	O.R.	P	Est.	S.E.	O.R.	P					
Intercept	2,14	0,38	8,53	***	1,29	1,17	3,64		2,06	1,36	7,87		2,46	0,13	11,69	***					
Education level and work-based learning																					
ISCED 2 or below	-1,49	0,34	0,23	***	-1,81	0,67	0,16	**	-1,98	0,30	0,14	***	-1,48	0,10	0,23	***					
GEN34	-0,66	0,30	0,52	*	-0,45	0,80	0,64		-0,02	0,42	0,98		-0,43	0,11	0,65	***					
SBV34	-0,78	0,32	0,46	*	0,02	0,53	1,02		0,26	0,23	1,30		-0,69	0,11	0,50	***					
WBT58	0,48	0,42	1,61		0,20	0,63	1,22		0,52	0,28	1,68		0,44	0,15	1,55	**					
SBT58	-0,27	0,32	0,77		-0,22	0,56	0,80		0,51	0,26	1,67	*	0,20	0,11	1,23						
Sexe (ref. male)	-0,39	0,19	0,67	*	-0,68	0,36	0,51		-1,42	0,18	0,24	***	-0,91	0,06	0,40	***					
Marstat (ref. not married)	0,09	0,26	1,10		0,31	0,48	1,37		-0,66	0,18	0,51	***	0,14	0,07	1,16	*					
Natbirth (ref. not native)	1,07	0,26	2,90	***	0,95	1,04	2,57		0,23	1,34	1,26		0,12	0,07	1,13						
Agecat (ref. 30-34)																					
20-24	-0,77	0,26	0,47	**	-0,72	0,52	0,49		-0,52	0,24	0,60	*	-0,25	0,07	0,78	***					
25-29	-0,43	0,23	0,65		-0,43	0,39	0,65		-0,10	0,19	0,90		-0,06	0,07	0,94						

NB: * p<0.05; **p<0.01; ***p<0.001.
'ISCED 2 or below': low-level education, i.e. at most lower secondary education.
'GEN34': general medium-level education, ISCED 3-4.
'SBV34': vocational medium-level education, ISCED 3-4, with no experience of work-based learning.
'WBT58': tertiary education, ISCED 5-8, with experience of work-based learning.
'SBT58': tertiary education, ISCED 5-8, with no experience of work-based learning.
Source: LFS 2016 AHM microdata, own calculations.

Table A.18. **Country-specific logistic regression analyses on employment status (being employed versus being unemployed/inactive) by highest education attained and experience of work-based learning as part of it (ref. work-based learning as part of tertiary education)**

	AT				BE				BG				CH				CY			
	Est.	S.E.	O.R.	P	Est.	S.E.	O.R.	P	Est.	S.E.	O.R.	P	Est.	S.E.	O.R.	P	Est.	S.E.	O.R.	P
Intercept	2.36	0.26	10.56	***	2.31	0.18	10.12	***	2.02	0.28	7.55	***	2.33	0.21	10.31	***	1.78	0.63	5.91	**
Education level and work-based learning																				
ISCED 2 or below	-2.05	0.31	0.13	***	-2.18	0.22	0.11	***	-2.60	0.32	0.07	***	-1.83	0.29	0.16	***	-1.07	0.80	0.34	
GEN34	-0.90	0.40	0.41	*	-1.33	0.25	0.27	***	-1.11	0.31	0.33	***	-1.23	0.29	0.29	***	-1.12	0.73	0.33	
SBV34	-0.63	0.40	0.53		-0.92	0.25	0.40	***	-0.87	0.32	0.42	***	-0.50	0.56	0.61		-0.98	0.90	0.38	
WBV34	-0.42	0.29	0.65		-0.95	0.23	0.39	***	-0.51	0.43	0.60		-0.36	0.25	0.70		-0.36	1.00	0.70	
SBT58	-0.20	0.34	0.82		-0.40	0.25	0.67		-0.43	0.35	0.65		0.12	0.32	1.13		-0.53	0.70	0.59	

	DE				DK				EE				EL				ES			
	Est.	S.E.	O.R.	P	Est.	S.E.	O.R.	P	Est.	S.E.	O.R.	P	Est.	S.E.	O.R.	P	Est.	S.E.	O.R.	P
Intercept	3.16	0.18	23.62	***	1.89	0.38	6.60	***	1.40	0.45	4.07	**	1.04	0.20	2.84	***	1.24	0.09	3.47	***
Education level and work-based learning																				
ISCED 2 or below	-2.92	0.19	0.05	***	-1.55	0.42	0.21	***	-0.57	0.59	0.56		-0.98	0.24	0.37	***	-0.97	0.10	0.38	***
GEN34	-2.87	0.21	0.06	***	-0.50	0.46	0.61		-0.44	0.57	0.65		-0.65	0.23	0.52	**	-0.62	0.13	0.54	***
SBV34	-1.26	0.21	0.28	***	0.02	0.50	1.02		-0.07	0.65	0.94		-0.65	0.23	0.52	**	-0.39	0.13	0.67	**
WBV34	-1.28	0.19	0.28	***	0.64	0.54	1.89		0.30	0.65	1.35		-0.67	0.33	0.51	*	-0.13	0.18	0.88	
SBT58	-0.82	0.20	0.44	***	0.14	0.45	1.15		0.19	0.62	1.21		-0.44	0.22	0.65		-0.07	0.11	0.93	

	FI				FR				HR				HU				IE			
	Est.	S.E.	O.R.	P	Est.	S.E.	O.R.	P	Est.	S.E.	O.R.	P	Est.	S.E.	O.R.	P	Est.	S.E.	O.R.	P
Intercept	1.73	0.22	5.67	***	1.87	0.05	6.47	***	1.68	0.56	5.38	**	1.84	0.17	6.31	***	2.08	0.39	7.97	***
Education level and work-based learning																				
ISCED 2 or below	-1.72	0.35	0.18	***	-2.01	0.08	0.13	***	-1.96	0.64	0.14	**	-1.70	0.21	0.18	***	-2.14	0.48	0.12	***
GEN34	-0.75	0.37	0.47	*	-1.00	0.09	0.37	***	-0.96	0.85	0.38		-0.56	0.23	0.57	*	-1.24	0.43	0.29	**
SBV34	-0.73	0.38	0.48		-1.21	0.09	0.30	***	-0.84	0.57	0.43		0.19	0.39	1.21		-1.06	0.48	0.35	**
WBV34	-0.27	0.27	0.76		-0.96	0.07	0.38	***	-0.71	0.60	0.49		-0.42	0.20	0.66	*	-0.55	0.60	0.58	
SBT58	-0.22	0.37	0.80		-0.40	0.11	0.67	***	0.12	0.61	1.12		-0.16	0.38	0.85		-0.19	0.43	0.83	

	IT				LT				LU				LV				MT			
	Est.	S.E.	O.R.	P	Est.	S.E.	O.R.	P	Est.	S.E.	O.R.	P	Est.	S.E.	O.R.	P	Est.	S.E.	O.R.	P
Intercept	1.18	0.10	3.25	***	2.44	0.31	11.47	***	2.19	0.77	8.90	**	2.17	0.44	8.80	***	3.21	1.73	24.77	
Education level and work-based learning																				
ISCED 2 or below	-1.16	0.11	0.31	***	-2.32	0.46	0.10	***	-1.41	0.97	0.24		-1.60	0.54	0.20	**	-2.08	1.79	0.13	
GEN34	-0.91	0.12	0.40	***	-1.47	0.39	0.23	***	-0.64	0.94	0.53		-1.48	0.50	0.23	**	-1.02	1.92	0.36	
SBV34	-0.63	0.11	0.53	***	-1.50	0.50	0.22	***	-0.07	2.18	0.93		-0.67	0.62	0.51		-0.79	2.25	0.45	
WBV34	-0.27	0.12	0.77	*	-1.00	0.45	0.37	*	-1.14	1.44	0.32		-0.57	0.59	0.57		-0.05	2.61	0.95	
SBT58	-0.39	0.12	0.68	**	0.49	0.63	1.63		0.26	1.20	1.30		-0.19	0.60	0.83		-0.24	2.15	0.79	

	NL				NO				PL				PT				RO			
	Est.	S.E.	O.R.	P	Est.	S.E.	O.R.	P	Est.	S.E.	O.R.	P	Est.	S.E.	O.R.	P	Est.	S.E.	O.R.	P
Intercept	2.83	0.20	16.92	***	2.74	0.53	15.48	***	2.10	0.11	8.13	***	1.74	0.27	5.67	***	2.82	0.54	16.77	***
Education level and work-based learning																				
ISCED 2 or below	-2.10	0.24	0.12	***	-2.18	0.55	0.11	***	-2.36	0.15	0.09	***	-0.69	0.30	0.50	*	-2.36	0.54	0.09	***
GEN34	-1.46	0.33	0.23	***	-1.26	0.58	0.28	*	-1.07	0.13	0.34	***	-0.16	0.33	0.85		-2.03	0.55	0.13	***
SBV34	-1.18	0.29	0.31	***	-0.85	0.60	0.43		-0.85	0.13	0.43	***	-0.67	0.33	0.51	*	-1.64	0.54	0.19	**
WBV34	-0.88	0.23	0.42	***	-0.30	0.76	0.74		-0.95	0.12	0.39	***	-0.29	0.37	0.75		-1.89	0.56	0.15	***
SBT58	-0.34	0.30	0.71		-0.25	0.58	0.78		0.09	0.14	1.09		-0.12	0.32	0.88		-0.79	0.55	0.45	

	SE				SI				SK				UK							
	Est.	S.E.	O.R.	P	Est.	S.E.	O.R.	P	Est.	S.E.	O.R.	P	Est.	S.E.	O.R.	P				
Intercept	2.98	0.32	19.59	***	1.82	0.44	6.15	***	1.45	0.24	4.24	***	2.34	0.11	10.42	***				
Education level and work-based learning																				
ISCED 2 or below	-2.15	0.38	0.12	***	-1.81	0.63	0.16	**	-2.10	0.34	0.12	***	-1.79	0.12	0.17	***				
GEN34	-1.25	0.37	0.29	***	-0.59	0.78	0.55		-0.34	0.44	0.71		-0.84	0.12	0.43	***				
SBV34	-1.20	0.39	0.30	**	-0.16	0.54	0.85		-0.03	0.30	0.97		-1.15	0.12	0.32	***				
WBV34	-0.44	0.40	0.65		-0.18	0.59	0.84		-0.23	0.26	0.80		-0.31	0.14	0.74	*				
SBT58	-0.77	0.37	0.46	*	-0.41	0.56	0.66		0.04	0.32	1.04		-0.29	0.12	0.75	*				

NB: * p<0.05; **p<0.01; ***p<0.001.
'ISCED 2 or below': low-level education, i.e. at most lower secondary education.
'GEN34': general medium-level education, ISCED 3-4.
'SBV34': vocational medium-level education, ISCED 3-4, with no experience of work-based learning.
'WBV34': medium-level education, ISCED 3-4, with experience of work-based learning
'SBT58': tertiary education, ISCED 5-8, with no experience of work-based learning
Source: Eurostat EU-LFS 2016 AHM microdata, own calculations.

Table A.19. **Country-specific logistic regression analyses on employment status (being employed versus being unemployed/inactive) by highest education attained and experience of work-based learning as part of it (ref. work-based learning as part of tertiary education), and sociodemographic background variables**

	AT				BE				BG				CH				CY			
	Est.	S.E.	O.R.	P	Est.	S.E.	O.R.	P	Est.	S.E.	O.R.	P	Est.	S.E.	O.R.	P	Est.	S.E.	O.R.	P
Intercept	2,27	0,35	9,65	***	2,28	0,26	9,75	***	0,49	2,32	1,64		3,00	0,31	20,09	***	2,31	0,89	10,10	**
Education level and work-based learning																				
ISCED 2 or below	-1,75	0,33	0,17	***	-2,27	0,23	0,10	***	-2,71	0,33	0,07	***	-1,62	0,32	0,20	***	-1,62	0,86	0,20	
GEN34	-0,62	0,42	0,54		-1,34	0,26	0,26	***	-1,14	0,32	0,32	***	-1,12	0,31	0,33	***	-1,25	0,76	0,29	
SBV34	-0,38	0,42	0,69		-1,02	0,26	0,36	***	-1,05	0,34	0,35	**	-0,44	0,57	0,64		-1,21	0,94	0,30	
WBV34	-0,45	0,31	0,64		-1,06	0,24	0,35	***	-0,65	0,44	0,52		-0,25	0,27	0,78		-0,56	1,04	0,57	
SBT58	-0,09	0,35	0,92		-0,44	0,26	0,65		-0,46	0,35	0,63		-0,02	0,33	0,98		-0,48	0,71	0,62	
Sex (ref. male)	-0,42	0,17	0,66	*	-0,62	0,13	0,54	***	-0,78	0,16	0,46	***	-0,30	0,18	0,74		-0,61	0,42	0,54	
Marstat (ref. not married)	-0,10	0,20	0,91		0,15	0,17	1,16		0,13	0,18	1,14		-0,85	0,20	0,43	***	0,22	0,46	1,25	
Natbirth (ref. not native)	0,87	0,18	2,38	***	0,78	0,16	2,18	***	2,28	2,32	9,78		-0,05	0,20	0,95		-0,25	0,48	0,78	
Agecat (ref. 30-34)																				
20-24	-0,69	0,22	0,50	**	-0,64	0,18	0,53	***	-0,78	0,22	0,46	***	-0,70	0,24	0,50	**	-0,39	0,54	0,68	
25-29	-0,33	0,20	0,72		-0,17	0,15	0,84		-0,43	0,17	0,65	*	-0,11	0,22	0,90		0,11	0,46	1,12	

	DE				DK				EE				EL				ES			
	Est.	S.E.	O.R.	P	Est.	S.E.	O.R.	P	Est.	S.E.	O.R.	P	Est.	S.E.	O.R.	P	Est.	S.E.	O.R.	P
Intercept	3,38	0,20	29,29	***	2,04	0,54	7,69	***	2,64	0,80	14,06	***	1,55	0,30	4,73	***	1,52	0,14	4,55	***
Education level and work-based learning																				
ISCED 2 or below	-2,78	0,19	0,06	***	-1,54	0,45	0,21	***	-1,18	0,66	0,31		-1,10	0,26	0,33	***	-0,97	0,11	0,38	***
GEN34	-2,72	0,21	0,07	***	-0,20	0,51	0,82		-0,76	0,62	0,47		-0,63	0,24	0,54	**	-0,45	0,13	0,64	***
SBV34	-1,00	0,21	0,37	***	0,01	0,53	1,01		-0,43	0,70	0,65		-0,65	0,24	0,52	**	-0,30	0,13	0,74	*
WBV34	-1,20	0,19	0,30	***	0,57	0,57	1,77		-0,12	0,69	0,89		-0,60	0,34	0,55		-0,06	0,19	0,94	
SBT58	-0,63	0,20	0,53	**	0,13	0,47	1,14		0,13	0,64	1,14		-0,39	0,23	0,68		-0,07	0,11	0,93	
Sex (ref. male)	-0,83	0,06	0,43	***	-0,53	0,23	0,59	*	-1,51	0,40	0,22	***	-0,80	0,12	0,45	***	-0,54	0,06	0,58	***
Marstat (ref. not married)	-0,43	0,07	0,65	***	0,35	0,33	1,42		-0,68	0,41	0,51		0,03	0,14	1,03		-0,04	0,08	0,96	
Natbirth	0,53	0,07	1,70	***	0,23	0,33	1,26		0,36	0,53	1,43		0,13	0,19	1,14		0,42	0,08	1,51	***

(ref. not native)																			
Agecat (ref. 30-34)																			
20-24	-0,30	0,09	0,74	***	-0,54	0,33	0,58		-0,20	0,53	0,82		-0,92	0,18	0,40	***	-1,07	0,08	0,34	***
25-29	-0,12	0,07	0,89		-0,07	0,27	0,93		-0,37	0,41	0,69		-0,22	0,13	0,80		-0,36	0,07	0,69	***
	FI				**FR**				**HR**				**HU**				**IE**			
	Est.	**S.E.**	**O.R.**	**P**	**Est.**	**S.E.**	**O.R.**	**P**	**Est.**	**S.E.**	**O.R.**	**P**	**Est.**	**S.E.**	**O.R.**	**P**	**Est.**	**S.E.**	**O.R.**	**P**
Intercept	2,00	0,58	7,42	***	1,70	0,11	5,45	***	1,86	1,00	6,45		3,52	0,50	33,62	***	2,23	0,51	9,34	***
Education level and work-based learning																				
ISCED 2 or below	-1,82	0,39	0,16	***	-1,97	0,08	0,14	***	-2,08	0,66	0,13	**	-2,04	0,23	0,13	***	-2,26	0,50	0,10	***
GEN34	-0,69	0,41	0,50		-0,88	0,09	0,42	***	-1,00	0,86	0,37		-0,62	0,24	0,54	**	-1,29	0,44	0,28	**
SBV34	-0,76	0,41	0,47		-1,22	0,10	0,29	***	-0,91	0,58	0,40		-0,01	0,40	0,99		-1,03	0,49	0,36	*
WBV34	-0,31	0,29	0,73		-0,99	0,07	0,37	***	-0,89	0,61	0,41		-0,73	0,21	0,48	***	-0,63	0,61	0,53	
SBT58	-0,22	0,39	0,80		-0,35	0,11	0,71	**	0,18	0,62	1,19		-0,10	0,39	0,91		-0,08	0,44	0,93	
Sex (ref. male)	-0,72	0,21	0,49	***	-0,65	0,05	0,52	***	-0,35	0,21	0,71		-1,33	0,15	0,26	***	-0,52	0,22	0,59	*
Marstat (ref. not married)	-0,22	0,24	0,80		-0,03	0,07	0,97		0,19	0,24	1,21		-0,69	0,16	0,50	***	0,16	0,29	1,17	
Natbirth (ref. not native)	0,41	0,50	1,51		0,85	0,08	2,34	***	0,04	0,81	1,04		-0,41	0,45	0,66		0,19	0,27	1,21	
Agecat (ref. 30-34)																				
20-24	-0,41	0,28	0,66		-0,69	0,07	0,50	***	-0,15	0,27	0,86		-0,39	0,19	0,68	*	-0,18	0,28	0,84	
25-29	-0,23	0,24	0,80		-0,19	0,06	0,83	**	-0,06	0,23	0,94		-0,10	0,16	0,91		-0,01	0,26	0,99	
	IT				**LT**				**LU**				**LV**				**MT**			
	Est.	**S.E.**	**O.R.**	**P**	**Est.**	**S.E.**	**O.R.**	**P**	**Est.**	**S.E.**	**O.R.**	**P**	**Est.**	**S.E.**	**O.R.**	**P**	**Est.**	**S.E.**	**O.R.**	**P**
Intercept	2,14	0,14	8,49	***	3,58	1,62	35,82	*	2,28	1,09	9,77	*	2,57	1,67	13,03		5,78	3,96	323,86	
Education level and work-based learning																				
ISCED 2 or below	-1,33	0,12	0,26	***	-2,37	0,48	0,09	***	-1,46	1,04	0,23		-1,80	0,60	0,17	**	-2,40	1,83	0,09	
GEN34	-0,77	0,13	0,46	***	-1,42	0,40	0,24	***	-0,75	1,04	0,47		-1,65	0,55	0,19	**	-1,00	1,97	0,37	
SBV34	-0,72	0,12	0,48	***	-1,49	0,53	0,23	**	0,09	2,23	1,09		-0,82	0,66	0,44		-1,07	2,29	0,34	
WBV34	-0,20	0,13	0,82		-1,00	0,46	0,37	*	-0,96	1,52	0,38		-0,93	0,64	0,39		-0,37	2,65	0,69	
SBT58	-0,44	0,13	0,65	***	0,40	0,63	1,49		0,26	1,24	1,30		-0,18	0,63	0,84		-0,37	2,18	0,69	
Sex (ref. male)	-0,77	0,05	0,46	***	-0,54	0,29	0,59		-0,88	0,71	0,42		-0,92	0,32	0,40	**	-1,30	0,82	0,27	
Marstat (ref. not married)	-0,20	0,06	0,82	**	0,35	0,32	1,42		0,17	0,74	1,19		-0,08	0,36	0,92		-0,56	1,01	0,57	

Natbirth (ref. not native)	-0,13	0,07	0,88		-0,90	1,57	0,41		1,16	0,80	3,20		0,46	1,60	1,59		-1,46	3,42	0,23	
Agecat (ref. 30-34)																				
20-24	-0,95	0,07	0,39	***	-0,69	0,35	0,50		-0,67	0,94	0,51		-0,67	0,41	0,51		-0,33	1,13	0,72	
25-29	-0,40	0,06	0,67	***	0,16	0,33	1,18		0,35	0,80	1,42		-0,12	0,36	0,89		0,15	1,01	1,16	

	NL				NO				PL				PT				RO			
	Est.	S.E.	O.R.	P	Est.	S.E.	O.R.	P	Est.	S.E.	O.R.	P	Est.	S.E.	O.R.	P	Est.	S.E.	O.R.	P
Intercept	2,47	0,31	11,87	***	2,93	0,66	18,65	***	3,11	1,13	22,52	**	1,99	0,40	7,31	***	2,87	1,29	17,68	*
Education level and work-based learning																				
ISCED 2 or below	-2,21	0,25	0,11	***	-2,38	0,59	0,09	***	-2,79	0,16	0,06	***	-0,84	0,31	0,43	**	-2,37	0,55	0,09	***
GEN34	-1,57	0,35	0,21	***	-1,36	0,63	0,26	*	-1,22	0,14	0,30	***	-0,23	0,34	0,79		-1,99	0,56	0,14	***
SBV34	-1,25	0,29	0,29	***	-1,06	0,63	0,35		-1,11	0,13	0,33	***	-0,59	0,34	0,55		-1,68	0,54	0,19	**
WBV34	-0,92	0,24	0,40	***	-0,51	0,79	0,60		-1,25	0,13	0,29	***	-0,12	0,39	0,89		-1,93	0,57	0,15	***
SBT58	-0,41	0,30	0,67		-0,35	0,61	0,71		0,07	0,14	1,07		-0,20	0,33	0,82		-0,77	0,56	0,46	
Sex (ref. male)	-0,82	0,15	0,44	***	-0,37	0,23	0,69		-1,31	0,07	0,27	***	-0,45	0,15	0,64	**	-1,16	0,09	0,31	***
Marstat (ref. not married)	0,20	0,18	1,22		-0,08	0,30	0,92		0,16	0,07	1,17	*	0,59	0,20	1,81	**	0,14	0,10	1,15	
Natbirth (ref. not native)	0,92	0,22	2,52	***	0,13	0,30	1,14		-0,09	1,12	0,91		0,31	0,25	1,36		0,69	1,16	1,99	
Agecat (ref. 30-34)																				
20-24	-0,15	0,20	0,86		-0,07	0,30	0,93		-0,23	0,10	0,80	*	-0,92	0,19	0,40	***	-0,61	0,12	0,54	***
25-29	0,06	0,17	1,06		0,21	0,27	1,23		-0,15	0,08	0,86		-0,36	0,17	0,70	*	-0,08	0,10	0,93	

	SE				SI				SK				UK							
	Est.	S.E.	O.R.	P	Est.	S.E.	O.R.	P	Est.	S.E.	O.R.	P	Est.	S.E.	O.R.	P				
Intercept	2,62	0,45	13,77	***	1,49	1,21	4,44		2,58	1,38	13,20		2,90	0,14	18,18	***				
Education level and work-based learning																				
ISCED 2 or below	-1,96	0,42	0,14	***	-2,01	0,72	0,13	**	-2,50	0,37	0,08	***	-1,92	0,12	0,15	***				
GEN34	-1,14	0,40	0,32	**	-0,65	0,82	0,52		-0,54	0,47	0,58		-0,87	0,13	0,42	***				
SBV34	-1,26	0,41	0,28	**	-0,18	0,58	0,84		-0,26	0,31	0,77		-1,13	0,13	0,32	***				
WBV34	-0,48	0,42	0,62		-0,20	0,63	0,82		-0,52	0,28	0,60		-0,44	0,15	0,64	**				
SBT58	-0,75	0,39	0,47		-0,43	0,57	0,65		-0,01	0,33	0,99		-0,24	0,13	0,79					
Sex (ref. male)	-0,39	0,19	0,67	*	-0,68	0,36	0,51		-1,42	0,18	0,24	***	-0,91	0,06	0,40	***				
Marstat (ref. not married)	0,09	0,26	1,10		0,31	0,48	1,37		-0,66	0,18	0,51	***	0,14	0,07	1,16	*				
Natbirth (ref. not native)	1,07	0,26	2,90	***	0,95	1,04	2,57		0,23	1,34	1,26		0,12	0,07	1,13					
Agecat (ref. 30-34)																				
20-24	-0,77	0,26	0,47	**	-0,72	0,52	0,49		-0,52	0,24	0,60	*	-0,25	0,07	0,78	***				
25-29	-0,43	0,23	0,65		-0,43	0,39	0,65		-0,10	0,19	0,90		-0,06	0,07	0,94					

NB: * p<0.05; **p<0.01; ***p<0.001.
'ISCED 2 or below': low-level education, i.e. at most lower secondary education.
'GEN34': general medium-level education, ISCED 3-4.
'SBV34': medium-level education, ISCED 3-4, with no experience of work-based learning.
'WBV34': work-based programmes in vocational medium-level education, ISCED 3-4, with experience of work-based learning.
'SBT58': tertiary education, ISCED 5-8, with no experience of work-based learning.
Source: Eurostat EU-LFS 2016 AHM microdata, own calculations.

ANNEX 16.

Country-specific logistic regression analyses on non-precariousness of employment

Table A.20. **Country-specific logistic regression analyses on non-precariousness of employment (having a contract of more than three months versus having a contract up to three months) by highest education attained and experience of work-based learning as part of it (ref. work-based learning as part of vocational medium-level education)**

	AT				BE				DE				DK				EE			
	Est.	S.E.	O.R.	P	Est.	S.E.	O.R.	P	Est.	S.E.	O.R.	P	Est.	S.E.	O.R.	P	Est.	S.E.	O.R.	P
Intercept	4.90	0.53	133.67	***	2.72	0.28	15.23	***	4.94	0.19	139.53	***	5.05	1.40	155.85	***	4.33	1.69	75.80	*
Education level and work-based learning																				
ISCED 2 or below	-0.68	1.01	0.51		-0.58	0.39	0.56		-1.07	0.35	0.34	**	-1.71	1.55	0.18		0.32	2.78	1.37	
GEN34	0.90	2.47	2.45		0.22	0.51	1.25		-2.11	0.35	0.12	***	-1.88	1.51	0.15		0.14	2.51	1.15	
SBV34	0.23	1.67	1.26		-0.03	0.42	0.97		-0.07	0.49	0.93		-1.06	1.67	0.35		0.50	3.00	1.65	
WBT58	-0.19	1.01	0.83		0.94	0.47	2.57		-0.25	0.43	0.78		-1.26	1.72	0.28		-0.11	2.42	0.89	
SBT58	0.43	1.13	1.53		0.53	0.44	1.71		-0.20	0.32	0.82		-0.67	1.58	0.51		1.52	3.75	4.57	

	EL				ES				FI				FR				HU			
	Est.	S.E.	O.R.	P	Est.	S.E.	O.R.	P	Est.	S.E.	O.R.	P	Est.	S.E.	O.R.	P	Est.	S.E.	O.R.	P
Intercept	3.32	1.04	27.78	**	2.47	0.31	11.79	***	3.26	0.37	26.13	***	2.15	0.08	8.57	***	3.62	0.31	37.47	***
Education level and work-based learning																				
ISCED 2 or below	-0.18	1.20	0.84		-0.39	0.33	0.68		-0.77	0.85	0.46		-0.60	0.14	0.55	***	-1.34	0.43	0.26	**
GEN34	-0.02	1.14	0.98		0.20	0.38	1.22		-0.68	0.74	0.50		-0.31	0.14	0.73		0.14	0.59	1.15	
SBV34	0.51	1.21	1.66		0.06	0.37	1.06		-0.08	0.94	0.92		-0.04	0.17	0.96		0.28	0.94	1.33	
WBT58	1.14	1.46	3.13		0.03	0.36	1.03		-0.09	0.58	0.92		0.92	0.13	2.50	***	0.11	0.52	1.12	
SBT58	1.12	1.23	3.05		0.21	0.34	1.23		0.09	0.80	1.09		1.00	0.22	2.72	***	-0.36	0.80	0.70	

	IT				LT				NL				PL				PT			
	Est.	S.E.	O.R.	P	Est.	S.E.	O.R.	P	Est.	S.E.	O.R.	P	Est.	S.E.	O.R.	P	Est.	S.E.	O.R.	P
Intercept	2.83	0.17	16.94	***	3.61	0.99	36.81	***	3.90	0.49	49.60	***	2.45	0.12	11.62	***	2.73	0.48	15.35	***
Education level and work-based learning																				
ISCED 2 or below	-0.25	0.22	0.78		-0.75	1.49	0.47		0.49	1.08	1.64		-0.99	0.24	0.37	***	0.01	0.54	1.01	
GEN34	-0.23	0.27	0.80		1.93	2.21	6.90		1.86	2.57	6.40		0.13	0.21	1.14		0.69	0.65	1.99	
SBV34	-0.06	0.21	0.94		0.67	2.10	1.96		1.87	1.68	6.48		0.22	0.18	1.25		0.62	0.70	1.86	
WBT58	0.55	0.37	1.73		1.40	1.53	4.06		0.95	0.87	2.59		1.16	0.27	3.20	***	0.29	0.71	1.33	
SBT58	0.25	0.28	1.28		1.72	2.10	5.57		1.06	0.93	2.89		0.73	0.19	2.08	***	0.28	0.58	1.33	

	SE				SI				SK				UK							
	Est.	S.E.	O.R.	P	Est.	S.E.	O.R.	P	Est.	S.E.	O.R.	P	Est.	S.E.	O.R.	P				
Intercept	3.59	0.40	36.25	***	2.59	0.65	13.39	***	3.69	0.39	40.10	***	4.81	0.37	122.95	***				
Education level and work-based learning																				
ISCED 2 or below	-0.74	0.65	0.48		-1.02	1.09	0.36		-0.40	1.17	0.67		0.17	0.52	1.19					
GEN34	-0.84	0.50	0.43		0.76	1.96	2.14		0.91	2.07	2.48		2.60	1.21	13.46	*				
SBV34	-0.81	0.54	0.45		-0.35	0.78	0.70		-0.16	0.64	0.85		1.59	0.85	4.90					
WBT58	0.59	0.71	1.80		0.04	0.94	1.04		1.23	1.36	3.44		0.35	0.58	1.42					
SBT58	0.68	0.63	1.98		0.13	0.92	1.13		-0.39	0.65	0.68		-0.06	0.42	0.95					

NB: * p<0.05; **p<0.01; ***p<0.001.

'ISCED 2 or below': low-level education, i.e. at most lower secondary education.

'GEN34': general medium-level education, ISCED 3-4.

'SBV34': vocational medium-level education, ISCED 3-4, with no experience of work-based learning.

'WBT58': tertiary education, ISCED 5-8, with experience of work-based learning.

'SBT58': tertiary education, ISCED 5-8, with no experience of work-based learning.

Source: LFS 2016 AHM microdata, own calculations.

Table A.21. **Country-specific logistic regression analyses on non-precariousness of employment (having a contract of more than three months versus having a contract up to three months) by highest education attained and experience of work-based learning as part of it (ref. work-based learning as part of vocational medium-level education) and sociodemographic background variables**

	AT				BE				DE				DK				EE			
	Est.	S.E.	O.R.	P	Est.	S.E.	O.R.	P	Est.	S.E.	O.R.	P	Est.	S.E.	O.R.	P	Est.	S.E.	O.R.	P
Intercept	4.67	1.20	106.59	***	2.99	0.54	19.91	***	4.415	0.34	82.68	***	4.43	1.71	84.19	*	3.84	2.57	46.46	
Education level and work-based learning																				
ISCED 2 or below	-0.65	1.12	0.52		-0.70	0.41	0.50		-0.828	0.36	0.44	*	-1.42	1.57	0.24		0.30	2.80	1.35	
GEN34	0.84	2.50	2.31		-0.05	0.52	0.96		-1.560	0.37	0.21	***	-1.39	1.55	0.25		-0.01	2.55	0.99	
SBV34	0.17	1.68	1.18		-0.04	0.43	0.96		-0.115	0.49	0.89		-1.22	1.69	0.30		0.48	3.02	1.61	
WBT58	-0.24	1.03	0.79		0.53	0.48	1.70		-0.548	0.44	0.58		-1.37	1.77	0.25		-0.46	2.57	0.63	
SBT58	0.29	1.15	1.34		0.11	0.46	1.12		-0.400	0.33	0.67		-0.91	1.63	0.40		1.19	3.83	3.29	
Sex (ref. male)	-0.01	0.74	0.99		0.50	0.29	1.65		-0.073	0.23	0.93		0.38	0.68	1.46		0.40	1.87	1.49	
Marstat (ref. not married)	1.64	1.52	5.13		-0.02	0.39	0.97		0.278	0.31	1.32		-0.25	0.96	0.78		0.01	2.19	1.01	
Natbirth (ref. not native)	0.20	0.96	1.22		0.38	0.37	1.46		0.991	0.24	2.69	***	1.50	0.72	4.50	*	0.85	2.07	2.33	
Agecat (ref. 30-34)																				
20-24	-0.54	0.90	0.58		-1.45	0.39	0.23	***	-0.994	0.31	0.37	**	-1.65	1.08	0.19		-0.64	2.25	0.53	
25-29	0.15	0.90	1.16		-0.45	0.38	0.64		0.150	0.31	1.16		-0.64	0.93	0.53		-0.18	2.03	0.84	

	EL				ES				FI				FR				HU			
	Est.	S.E.	O.R.	P	Est.	S.E.	O.R.	P	Est.	S.E.	O.R.	P	Est.	S.E.	O.R.	P	Est.	S.E.	O.R.	P
Intercept	3.26	1.41	26.00	*	3.03	0.38	20.60	***	3.67	1.48	39.09	*	2.08	0.20	7.99	***	3.86	1.13	47.65	**
Education level and work-based learning																				
ISCED 2 or below	-0.11	1.27	0.89		-0.51	0.33	0.60		-0.82	0.93	0.44		-0.64	0.14	0.53	***	-1.36	0.44	0.26	**
GEN34	-0.04	1.15	0.97		0.07	0.39	1.08		-0.51	0.75	0.60		-0.32	0.14	0.73	*	0.11	0.60	1.12	
SBV34	0.54	1.22	1.71		0.07	0.37	1.07		-0.18	0.95	0.84		-0.05	0.17	0.96		0.24	0.95	1.27	
WBT58	1.00	1.46	2.72		-0.05	0.36	0.95		-0.34	0.64	0.71		0.78	0.13	2.18	***	-0.05	0.54	0.95	
SBT58	0.95	1.24	2.58		0.12	0.34	1.13		-0.35	0.85	0.71		0.76	0.22	2.14	**	-0.58	0.81	0.56	
Sex (ref. male)	0.01	0.56	1.01		-0.18	0.13	0.84		-0.14	0.47	0.87		0.05	0.09	1.05		0.05	0.36	1.05	
Marstat (ref. not married)	0.54	0.76	1.71		0.49	0.20	1.63	*	0.30	0.66	1.35		0.48	0.15	1.62	**	1.00	0.64	2.71	

Natbirth (ref. not native)	0.53	0.72	1.70		-0.02	0.18	0.98		0.16	1.37	1.17		0.39	0.17	1.47	*	-0.06	1.06	0.94	
Agecat (ref. 30-34)																				
20-24	-1.15	0.77	0.32		-1.20	0.18	0.30	***	-1.01	0.66	0.36		-0.95	0.12	0.39	***	-0.55	0.47	0.58	
25-29	-0.63	0.66	0.53		-0.58	0.15	0.56	***	-0.43	0.60	0.65		-0.17	0.12	0.85		-0.34	0.43	0.71	
	IT				**LT**				**NL**				**PL**				**PT**			
	Est.	**S.E.**	**O.R.**	**P**	**Est.**	**S.E.**	**O.R.**	**P**	**Est.**	**S.E.**	**O.R.**	**P**	**Est.**	**S.E.**	**O.R.**	**P**	**Est.**	**S.E.**	**O.R.**	**P**
Intercept	3.15	0.29	23.40	***	14.84	1062.98	2797430.31		5.12	1.76	167.73	**	0.21	1.50	1.24		2.44	0.75	11.43	**
Education level and work-based learning																				
ISCED 2 or below	-0.41	0.23	0.66		-0.79	1.54	0.45		0.74	1.21	2.10		-1.04	0.25	0.35	***	-0.18	0.55	0.83	
GEN34	-0.29	0.27	0.75		1.94	2.22	6.99		1.84	2.58	6.30		0.17	0.22	1.18		0.52	0.66	1.68	
SBV34	-0.11	0.22	0.89		0.83	2.12	2.29		1.57	1.69	4.82		0.23	0.19	1.25		0.60	0.71	1.82	
WBT58	0.30	0.38	1.35		1.17	1.58	3.22		0.54	0.90	1.72		1.00	0.27	2.71	***	0.09	0.73	1.09	
SBT58	-0.04	0.29	0.97		1.49	2.14	4.43		0.57	0.96	1.76		0.56	0.21	1.74	**	0.17	0.61	1.18	
Sex (ref. male)	-0.16	0.15	0.85		-0.22	1.19	0.80		-0.05	0.68	0.95		-0.20	0.14	0.82		0.11	0.32	1.11	
Marstat (ref. not married)	0.05	0.20	1.05		1.67	1.88	5.33		0.55	1.13	1.74		0.50	0.16	1.65	**	0.67	0.45	1.95	
Natbirth (ref. not native)	0.31	0.18	1.36		-11.19	1062.98	0.00		0.15	1.41	1.16		2.47	1.49	11.85		0.44	0.52	1.55	
Agecat (ref. 30-34)																				
20-24	-1.01	0.20	0.36	***	-0.66	1.51	0.52		-2.17	1.19	0.11		-0.72	0.19	0.49	***	-0.32	0.44	0.73	
25-29	-0.45	0.18	0.64	*	-0.29	1.42	0.75		-1.09	1.17	0.34		-0.28	0.17	0.76		-0.20	0.37	0.82	
	SE				**SI**				**SK**				**UK**							
	Est.	**S.E.**	**O.R.**	**P**	**Est.**	**S.E.**	**O.R.**	**P**	**Est.**	**S.E.**	**O.R.**	**P**	**Est.**	**S.E.**	**O.R.**	**P**				
Intercept	4.06	0.84	57.91	***	17.81	2030.74	54269768.52		16.28	1801.32			4.14	0.57	62.71	***				
Education level and work-based learning																				
ISCED 2 or below	-0.92	0.69	0.40		-0.74	1.43	0.48		-0.39	1.18	0.68		0.24	0.54	1.27					
GEN34	-0.72	0.51	0.49		0.60	2.29	1.82		0.95	2.07	2.59		2.81	1.22	16.59	*				
SBV34	-0.75	0.56	0.47		-0.41	0.88	0.66		-0.13	0.65	0.88		1.96	0.87	7.07	*				
WBT58	0.15	0.74	1.16		-0.35	1.07	0.71		1.20	1.37	3.31		0.29	0.62	1.34					
SBT58	0.22	0.67	1.24		-0.39	1.06	0.68		-0.44	0.68	0.65		-0.03	0.45	0.97					
Sex (ref. male)	-0.23	0.35	0.80		-0.52	0.65	0.60		-0.36	0.52	0.70		-0.35	0.31	0.71					
Marstat (ref. not married)	0.73	0.76	2.07		0.43	1.05	1.53		0.16	0.67	1.17		2.37	0.93	10.66	*				
Natbirth (ref. not native)	0.59	0.63	1.80		-13.94	2030.74	0.00		-12.12	1801.32	0.00		1.09	0.36	2.96	**				
Agecat (ref. 30-34)																				

20-24	-1.68	0.55	0.19	**	-2.08	0.90	0.13	*	-0.82	0.71	0.44		-1.04	0.40	0.35	**				
25-29	-0.68	0.56	0.50		-0.84	0.79	0.43		-0.37	0.62	0.69		0.55	0.48	1.73					

NB: * p<0.05; **p<0.01; ***p<0.001.
'ISCED 2 or below': low-level education, i.e. at most lower secondary education.
'GEN34': general medium-level education, ISCED 3-4.
'SBV34': medium-level education, ISCED 3-4, with no experience of work-based learning.
'WBT58': tertiary education, ISCED 5-8, with experience of work-based learning.
'SBT58': tertiary education, ISCED 5-8, with no experience of work-based learning.
Source: Eurostat EU-LFS 2016 AHM microdata, own calculations.

Table A.22. **Country-specific logistic regression analyses on non-precariousness of employment (having a contract of more than three months versus having a contract up to three months) by highest education attained and experience of work based-learning as part of it (ref. work-based learning as part of tertiary education)**

	AT				BE				DE				DK				EE			
	Est.	S.E.	O.R.	P	Est.	S.E.	O.R.	P	Est.	S.E.	O.R.	P	Est.	S.E.	O.R.	P	Est.	S.E.	O.R.	P
Intercept	4.710327	0.85	111.09	***	3.67	0.38	39.10	***	4.69	0.39	108.53	***	3.78	1.01	44.14	***	4.22	1.74	67.78	*
Education level and work-based learning																				
ISCED 2 or below	-0.49	1.21	0.61		-1.52	0.47	0.22	**	-0.82	0.49	0.44		-0.45	1.21	0.64		0.43	2.81	1.53	
GEN34	1.08	2.56	2.95		-0.72	0.58	0.49		-1.86	0.49	0.16	***	-0.62	1.16	0.54		0.26	2.54	1.29	
WBV34	0.19	1.01	1.20		-0.94	0.47	0.39	*	0.25	0.43	1.29		1.26	1.72	3.53		0.11	2.42	1.12	
SBV34	0.42	1.79	1.52		-0.97	0.49	0.38	*	0.18	0.60	1.20		0.20	1.36	1.23		0.62	3.03	1.85	
SBT58	0.61	1.31	1.85		-0.41	0.51	0.66		0.05	0.47	1.05		0.59	1.25	1.80		1.63	3.77	5.11	

	EL				ES				FI				FR				HU			
	Est.	S.E.	O.R.	P	Est.	S.E.	O.R.	P	Est.	S.E.	O.R.	P	Est.	S.E.	O.R.	P	Est.	S.E.	O.R.	P
Intercept	4.46	1.02	86.86	***	2.49	0.18	12.12	***	3.17	0.45	23.92	***	3.06	0.100537	21.42	***	3.73	0.43	41.87	***
Education level and work-based learning																				
ISCED 2 or below	-1.32	1.17	0.27		-0.41	0.21	0.66	*	-0.68	0.89	0.5		-1.52	0.15	0.22	***	-1.45	0.53	0.23	**
GEN34	-1.16	1.11	0.31		0.17	0.28	1.19		-0.60	0.78	0.55		-1.23	0.15	0.29	***	0.03	0.66	1.03	
WBV34	-1.14	1.46	0.32		-0.03	0.36	0.97		0.09	0.58	1.09		-0.92	0.13	0.40	***	-0.11	0.52	0.89	
SBV34	-0.63	1.19	0.53		0.03	0.27	1.03		0.04	0.97	1.00		-0.95	0.18	0.39	***	0.17	0.99	1.19	
SBT58	-0.02	1.21	0.98		0.18	0.22	1.20		0.17	0.84	1.19		0.08	0.23	1.09		-0.47	0.85	0.62	

	IT				LT				NL				PL				PT			
	Est.	S.E.	O.R.	P	Est.	S.E.	O.R.	P	Est.	S.E.	O.R.	P	Est.	S.E.	O.R.	P	Est.	S.E.	O.R.	P
Intercept	3.38	0.32	29.3	***	5.01	1.16	149.51	***	4.86	0.72	128.43	***	3.61	0.24	37.14	***	3.02	0.52	20.42	***
Education level and work-based learning																				
ISCED 2 or below	-0.79	0.35	0.45	*	-2.16	1.61	0.12		-0.45	1.20	0.63		-2.16	0.32	0.12	***	-0.27	0.58	0.76	
GEN34	-0.77	0.38	0.46	*	0.53	2.29	1.70		0.90	2.63	2.47		-1.03	0.30	0.36	***	0.40	0.68	1.50	
WBV34	-0.55	0.37	0.58		-1.40	1.53	0.25		-0.95	0.87	0.39		-1.162	0.27	0.31	***	-0.29	0.71	0.75	
SBV34	-0.61	0.35	0.54		-0.73	2.18	0.48		0.92	1.76	2.50		-0.94	0.28	0.39	***	0.34	0.73	1.40	
SBT58	-0.30	0.39	0.74		0.32	2.18	1.37		0.11	1.07	1.11		-0.43	0.28	0.65		-0.00	0.61	1.00	

	SE				SI				SK				UK							
	Est.	S.E.	O.R.	P	Est.	S.E.	O.R.	P	Est.	S.E.	O.R.	P	Est.	S.E.	O.R.	P				
Intercept	4.18	0.59	65.24	***	2.63	0.68	13.94	***	4.93	1.299618	137.77	***	5.17	0.44	175.08	***				
Education level and work-based learning																				
ISCED 2 or below	-1.33	0.79	0.27		-1.06	1.11	0.35		-1.63	1.70	0.20		-0.18	0.58	0.83					
GEN34	-1.43	0.66	0.24	*	0.72	1.97	2.06		-0.33	2.41	0.72		2.25	1.24	9.46					
WBV34	-0.59	0.71	0.56		-0.04	0.94	0.96		-1.23	1.36	0.29		-0.35	0.58	0.70					
SBV34	-1.40	0.69	0.25	*	-0.39	0.81	0.67		-1.39	1.40	0.25		1.24	0.89	3.44					
SBT58	0.09	0.77	1.10		0.09	0.94	1.09		-1.62	1.40	0.20		-0.41	0.49	0.66					

NB: * p<0.05; **p<0.01; ***p<0.001.
'ISCED 2 or below': low-level education, i.e. at most lower secondary education.
'GEN34': general medium-level education, ISCED 3-4.
'SBV34': vocational medium-level education, ISCED 3-4, with no experience of work-based learning.
'WBV34': vocational medium-level education, ISCED 3-4, with experience of work-based learning.
'SBT58': tertiary education, ISCED 5-8, with no experience of work-based learning.
Source: LFS 2016 AHM microdata, own calculations.

Table A.23. **Country-specific logistic regression analyses on non-precariousness of employment (having a contract of more than three months versus having a contract up to three months) by highest education attained and experience of work-based learning as part of it (ref. work-based learning as part of tertiary education) and sociodemographic background variables**

	AT				BE				DE				DK				EE			
	Est.	S.E.	O.R.	P	Est.	S.E.	O.R.	P	Est.	S.E.	O.R.	P	Est.	S.E.	O.R.	P	Est.	S.E.	O.R.	P
Intercept	4,43	1,37	83,69	**	3,52	0,58	33,79	***	3,87	0,47	66,95	***	3,06	1,32	5,37	*	3,38	2,90	1,36	
Education level and work-based learning																				
ISCED 2 or below	-0,41	1,32	0,66		-1,22	0,48	0,29	*	-0,28	0,51	0,30		-0,05	1,28	0,00		0,76	2,96	0,07	
GEN34	1,08	2,58	2,94		-0,57	0,58	0,56		-1,01	0,53	3,71		-0,02	1,32	0,00		0,45	2,59	0,03	
WBV34	0,41	1,81	1,50		-0,57	0,51	0,57		0,43	0,61	0,51		0,15	1,38	0,01		0,94	3,14	0,09	
SBV34	0,24	1,03	1,27		-0,53	0,48	0,59		0,55	0,44	1,52		1,37	1,76	0,60		0,46	2,57	0,03	
SBT58	0,53	1,31	1,71		-0,41	0,52	0,66		0,15	0,47	0,10		0,46	1,27	0,13		1,65	3,77	0,19	
Sex (ref. male)	-0,01	0,74	0,99		0,50	0,29	1,65		-0,07	0,23	0,10		0,38	0,67	0,31		0,40	1,87	0,05	
Marstat (ref. not married)	1,64	1,52	5,13		-0,03	0,39	0,97		0,28	0,31	0,79		-0,25	0,96	0,07		0,01	2,19	0,00	
Natbirth (ref. not native)	0,20	0,96	1,22		0,38	0,37	1,46		0,99	0,24	16,52	***	1,50	0,72	4,31	*	0,85	2,07	0,17	
Agecat (ref. 30-34)																				
20-24	-0,54	0,90	0,58		-1,45	0,39	0,23	***	-0,99	0,31	10,39	**	-1,65	1,08	2,34		-0,64	2,25	0,08	
25-29	0,15	0,96	1,16		-0,45	0,36	0,64		0,15	0,31	0,24		-0,64	0,93	0,47		-0,18	2,03	0,01	

	EL				ES				FI				FR				HU			
	Est.	S.E.	O.R.	P	Est.	S.E.	O.R.	P	Est.	S.E.	O.R.	P	Est.	S.E.	O.R.	P	Est.	S.E.	O.R.	P
Intercept	4,26	1,36	9,83	**	2,98	0,29	104,62	***	3,33	1,52	4,80	*	2,86	0,21	180,85	***	3,81	1,16	10,73	**
Education level and work-based learning																				
ISCED 2 or below	-1,12	1,25	0,80		-0,46	0,21	4,72	*	-0,48	0,99	0,24		-1,42	0,16	82,49	***	-1,31	0,54	5,79	*
GEN34	-1,04	1,13	0,85		0,12	0,29	0,18		-0,17	0,85	0,04		-1,10	0,16	49,74	***	0,16	0,67	0,06	
WBV34	-0,46	1,20	0,15		0,12	0,27	0,19		0,16	1,01	0,03		-0,83	0,19	19,73	***	0,29	0,99	0,09	
SBV34	-1,00	1,46	0,47		0,05	0,36	0,02		0,34	0,64	0,28		-0,78	0,13	35,37	***	0,05	0,54	0,01	
SBT58	-0,06	1,21	0,00		0,17	0,22	0,56		-0,01	0,85	0,00		-0,02	0,23	0,01		-0,53	0,85	0,39	
Sex (ref. male)	0,01	0,56	0,00		-0,18	0,13	1,78		-0,14	0,47	0,08		0,05	0,09	0,26		0,05	0,36	0,02	
Marstat (ref. not married)	0,54	0,76	0,50		0,49	0,20	5,80	*	0,30	0,66	0,20		0,48	0,15	10,84	**	1,00	0,64	2,42	
Natbirth (ref. not native)	0,53	0,72	0,54		-0,02	0,18	0,01		0,16	1,37	0,01		0,39	0,17	5,07	*	-0,06	1,06	0,00	
Agecat (ref. 30-34)																				
20-24	-1,15	0,77	2,19		-1,20	0,18	46,28	***	-1,01	0,66	2,30		-0,95	0,12	63,93	***	-0,55	0,47	1,39	
25-29	-0,63	0,66	0,89		-0,58	0,15	14,45	***	-0,43	0,60	0,51		-0,17	0,12	2,05		-0,34	0,43	0,63	

	IT				LT				NL				PL				PT			
	Est.	S.E.	O.R.	P	Est.	S.E.	O.R.	P	Est.	S.E.	O.R.	P	Est.	S.E.	O.R.	P	Est.	S.E.	O.R.	P
Intercept	3,46	0,40	73,70	***	15,98	1047,35	0,00		5,66	1,82	9,73	**	1,21	1,51	0,64		2,52	0,76	11,01	**
Education level and work-based learning																				
ISCED 2 or below	-0,71	0,36	3,89	*	-1,96	1,71	1,32		0,20	1,35	0,02		-2,03	0,33	38,33	***	-0,27	0,59	0,21	
GEN34	-0,59	0,39	2,34		0,77	2,35	0,11		1,30	2,65	0,24		-0,83	0,30	7,49	**	0,43	0,68	0,40	
WBV34	-0,42	0,36	1,35		-0,34	2,27	0,02		1,03	1,77	0,34		-0,77	0,28	7,37	**	0,51	0,75	0,46	
SBV34	-0,30	0,38	0,65		-1,17	1,58	0,55		-0,54	0,90	0,36		-1,00	0,27	13,26	***	-0,09	0,73	0,01	
SBT58	-0,34	0,40	0,72		0,32	2,19	0,02		0,03	1,08	0,00		-0,44	0,29	2,40		0,08	0,62	0,02	
Sex (ref. male)	-0,16	0,15	1,23		-0,22	1,19	0,04		-0,05	0,68	0,00		-0,20	0,14	2,03		0,11	0,32	0,11	
Marstat (ref. not married)	0,05	0,20	0,06		1,67	1,88	0,79		0,55	1,13	0,24		0,50	0,16	10,29	**	0,67	0,45	2,16	
Natbirth (ref. not native)	0,31	0,18	2,86		-11,16	1047,35	0,00		0,15	1,41	0,01		2,47	1,49	2,77		0,44	0,52	0,70	
Agecat (ref. 30-34)																				
20-24	-1,01	0,20	26,45	***	-0,66	1,51	0,19		-2,17	1,19	3,34		-0,72	0,19	14,38	***	-0,32	0,44	0,53	
25-29	-0,45	0,18	6,42	*	-0,29	1,42	0,04		-1,09	1,17	0,87		-0,28	0,17	2,74		-0,20	0,37	0,30	

	SE				SI				SK				UK							
	Est.	S.E.	O.R.	P	Est.	S.E.	O.R.	P	Est.	S.E.	O.R.	P	Est.	S.E.	O.R.	P				
Intercept	4,21	0,95	19,70	***	17,46	2030,74	0,00		17,48	1801,32	0,00		4,43	0,63	48,86	***				
Education level and work-based learning																				
ISCED 2 or below	-1,07	0,83	1,65		-0,39	1,49	0,07		-1,59	1,73	0,84		-0,05	0,61	0,01					
GEN34	-0,87	0,70	1,56		0,94	2,28	0,17		-0,25	2,43	0,01		2,52	1,25	4,04	*				
WBV34	-0,89	0,73	1,51		-0,07	0,93	0,01		-1,33	1,42	0,88		1,66	0,91	3,33					
SBV34	-0,15	0,74	0,04		0,35	1,07	0,10		-1,20	1,37	0,76		-0,29	0,62	0,22					
SBT58	0,07	0,79	0,01		-0,04	1,00	0,00		-1,63	1,40	1,36		-0,32	0,53	0,36					
Sex (ref. male)	-0,23	0,35	0,40		-0,52	0,65	0,64		-0,36	0,52	0,49		-0,35	0,31	1,24					
Marstat (ref. not married)	0,73	0,76	0,92		0,43	1,05	0,17		0,16	0,67	0,05		2,37	0,93	6,46	*				
Natbirth (ref. not native)	0,59	0,63	0,88		-13,94	2030,74	0,00		-12,12	1801,32	0,00		1,09	0,36	9,33	**				
Agecat (ref. 30-34)																				
20-24	-1,68	0,55	9,34	**	-2,08	0,90	5,36	*	-0,82	0,71	1,31		-1,04	0,40	6,85	**				
25-29	-0,68	0,56	1,47		-0,84	0,79	1,14		-0,37	0,62	0,35		0,55	0,48	1,30					

NB: * p<0.05; **p<0.01; ***p<0.001.
'ISCED 2 or below': low-level education, i.e. at most lower secondary education.
'GEN34': general medium-level education, ISCED 3-4.
'SBV34': vocational medium-level education, ISCED 3-4, with no experience of work-based learning.
'WBV34': work-based programmes in vocational medium-level education, ISCED 3-4, with experience of work-based learning.
'SBT58': tertiary education, ISCED 5-8, with no experience of work-based learning.
Source: Eurostat EU-LFS 2016 AHM microdata, own calculations.

ANNEX 17.

Derivation of key variables and background preliminary information on the sample

In the dataset and in the study, work-based learning experiences are related to the curriculum of the highest education attained. LFS core variables on both the level (HATLEVEL) and orientation (HATVOC) of educational attainment are used to define these levels. **Table A.24** defines the new variable on the highest educational attainment (Hdegree). This new variable (Hdegree) differentiates between:

(a) primary and lower secondary education (ISCED 2 or below);
(b) the general tracks in secondary and post-secondary non-tertiary education (ISCED 3-4 general);
(c) the vocational tracks in secondary and post-secondary non-tertiary education (ISCED 3-4 vocational);
(d) tertiary education (short cycle, bachelor, master and doctoral) (ISCED 5-8).

Table A.24. **Definition of the highest educational attainment (Hdegree)**

	Variable	Variable HATVOC		
	HATLEVEL	1=general	2=vocational	9=missing
ISCED 0	000			Not in sample
ISCED 1	100			Hdegree=1
ISCED 2	200			Hdegree=1
ISCED 3	300,302,303,304	Hdegree=2	Hdegree=3	
ISCED 4	400	Hdegree=2	Hdegree=3	
ISCED 5	500			Hdegree=4
ISCED 6	600			Hdegree=4
ISCED 7	700			Hdegree=4
ISCED 8	800			Hdegree=4

Source: Own processing of information from Eurostat, core EU-LFS.

In analysing the incidence and labour-market outcomes of work-based learning, all individuals with ISCED level 0 are excluded, due to the filter variable on the WORKEXP variable.

In the 2016 ad-hoc module of the EU-LFS survey, two key variables were introduced (WORKEXP and WORKSTUD, **Table A.25**Table A.26). These enquire as to the occurrence of work experience and work-based learning during the highest level of formal education. The variable 'work experience' is included in order to find out whether the respondent has had any work experience during the part of the educational trajectory where s/he obtained the highest qualification. A

distinction is made between paid work (for example: a job, a side job, an apprenticeship) and unpaid work (such as an unpaid internship, voluntary work).

For this variable, the whole period of an education cycle is considered, starting at the beginning of the first school year, which is part of HATLEVEL. Work activities taking place during the respective school holidays (for example in a side job) are considered as work experience acquired during the HATLEVEL period. The target group of the variable consists of all persons who have at least ISCED 1 as educational attainment level.

Table A.25. **Definition of work experience during the highest level of attainment (WORKEXP)**

WORKEXP Work experience during studies *Paid or unpaid work experience during the highest level of education (HATLEVEL)*	Questionnaire filter HATLEVEL≠000
1. both paid and unpaid work experience 2. paid work experience only 3. unpaid work experience only 4. no work experience during HATLEVEL 9. not applicable (not included in the filter) Blank unknown	

Source: Eurostat, 2016 ad-hoc module of the EU-LFS.

Table A.26. Definition of work-based learning (WORKSTUD) during the highest level of attainment

WORKSTUD *Type of work experience that is part of the curriculum of the highest level of education (HATLEVEL)*	Questionnaire filter WORKEXP=1-3
1. apprenticeship (operational Eurostat definition) 2. mandatory traineeship 3. mandatory work-based training (distinction between 1 and 2 is not possible) 4. optional traineeship (part of education) 5. work outside the curriculum 9. not applicable (not included in the filter) Blank unknown	

Source: Eurostat, 2016 ad-hoc module of the EU-LFS.

Like the variable WORKEXP, the variable WORKSTUD is intended to gather information about work experience during the highest level of education for which a qualification has been attained. But the focus is on work experience that is a part of the curriculum.

The variable divides the group of respondents who had work experience during the highest level of education into those whose work experience was solely outside the curriculum and those for whom some work experience was included in the curriculum. For those with work experience which is a part of the curriculum, the distinction between mandatory and optional work experience is crucial.

In the context of the definition of the WORKSTUD variable, work-based learning is regarded as an ‘apprenticeship’ when the duration of actual time on the job is at least six months and the work is paid. The Eurostat source stresses that there are differences between the definition of ‘apprenticeships’ in the ad-hoc module and the core labour force survey (European Commission and Eurostat, 2016, p. 6).

The LFS core definition of apprenticeships is not specifically linked to some HATLEVEL levels, as is the case with the AHM 2016 variable. Moreover, the formal education criterion is essential in the ISCED integrated mappings used by the AHM LFS variables, while the core definition uses the young person’s work experience as a starting point. The notion of ‘work experience’ in the LFS 2016 AHM variables is much wider than the concept of ‘combined work- and school-based’ education, which is used in the UOE data collection.

The variables WORKEXP and WORKSTUD can be combined to derive information on the occurrence of work experience at the highest level of education and to generate the following possible categorisation:

(a) no work experience;
(b) work outside the curriculum;
(c) mandatory or optional traineeship;
(d) apprenticeship (operational Eurostat definition).

Note that:

(a) an additional possible category has been dropped as it was in frequent and, in any case, too small for publication (mandatory work-based learning with no distinction possible between apprenticeship and mandatory traineeship);
(b) a possible distinction between mandatory and optional traineeship has also been dropped to simplify the presentation and to overcome data quality issues related to such a distinction.

This information can be combined with that on the highest educational attainment. To generate descriptive statistics, this has been done following the scheme presented in **Table A.27**. The resulting split in the samples is displayed in **Table A.28**. The choice has been driven by preliminary exploratory analysis, with results presented in Table A.26 (this used a higher level of detail which turned out to be not convenient for the analysis).

Table A.26 shows the incidence of a tentative fivefold categorisation of work experiences at the highest level of education for ISCED levels 1-2, as well as for ISCED 3-4 GEN, ISCED 3-4 VOC and ISCED 5-8.

Having inspected the data, two adjustments were made to the operationalisation of WBL and work experience during highest level of educational attainment.

The category of mandatory work-based training (without distinction between apprenticeship and traineeship) was dropped. In most countries, the number of respondents reporting mandatory work-based training (where the distinction between mandatory traineeship and apprenticeship could not be made) is small, even too small for publication for all ISCED levels. Dropping this category would primarily affect the Netherlands and Norway. A fourfold categorisation is therefore adopted, distinguishing between individuals without work experience, individuals with work experience outside the curriculum and individuals with traineeships and apprenticeships experiences.

Table A.26 clearly shows that the incidence of apprenticeships in ISECD 2 or below and ISCED 3-4 GEN is too small in most countries and does not meet the reliability/confidentiality thresholds set by Eurostat for publication. Separate reporting on the prevalence of apprenticeships is possible at ISCED 3-4 VOC and ISCED 5-8. At ISCED level 2 (or below) and ISCED level 3-4 GEN, traineeships and apprenticeships have been grouped together. **Table A.28** shows the construction of the categories that have been used in the descriptive analysis. **Table A.29** clearly illustrates that most issues of flagged publication are resolved by the proposed aggregation.

Table A.27. **Work-based learning and work experience outside the curriculum by aggregated highest level of educational attainment (%, LFS 2016 AHM)**

	ISCED 2 or below					ISCED 3-4 gen					ISCED 3-4 voc					ISCED 5-8				
	no work exp.	work outside curr.	mandatory WBL without further distinction possible	traineeship	apprenticeship	no work exp.	work outside curr.	mandatory WBL without further distinction possible	traineeship	apprenticeship	no work exp.	work outside curr.	mandatory WBL without further distinction possible	traineeship	apprenticeship	no work exp.	work outside curr.	mandatory WBL without further distinction possible	traineeship	apprenticeship
BE	78,5%	11,3%		8,1%	2,2%	57,5%	30,9%		11,3%		29,2%	14,5%		49,2%	7,1%	25,2%	20,5%		50,2%	4,0%
BG	98,0%	1,3%				88,9%	7,2%		3,9%		73,5%	5,7%		20,3%		41,4%	20,9%		37,3%	
CZ*						47,7%	39,3%		11,9%	1,1%	17,6%	14,8%	0,2%	43,3%	24,1%	13,6%	27,3%	0,3%	49,0%	9,9%
DK	46,5%	46,5%		5,6%	1,1%	25,7%	70,5%		2,9%		30,2%	18,8%	3,6%	5,5%	41,9%	13,3%	63,4%	3,3%	15,2%	4,8%
DE*	91,5%	5,7%				73,5%	20,4%		5,0%		6,7%	7,7%		3,7%	81,8%	45,5%	24,9%		17,5%	11,8%
EE	88,0%	8,1%		3,5%		77,9%	19,3%				40,4%	5,7%		48,5%	4,7%	27,7%	28,8%		37,8%	5,5%
IE	87,5%	7,0%		4,3%		77,2%	20,4%		1,2%		51,5%	17,2%		13,6%	15,4%	40,6%	38,6%	3,0%	14,3%	3,4%
EL	91,0%	7,1%		1,0%	0,9%	86,4%	13,6%				68,4%	14,6%		9,1%	7,8%	60,5%	14,9%	0,2%	8,7%	15,7%
ES	93,7%	5,3%		1,0%	0,1%	88,6%	10,4%		1,0%		62,3%	11,2%	1,4%	23,3%	1,8%	49,1%	22,7%	1,1%	23,6%	3,6%
FR	28,1%	3,5%		65,5%	2,8%	38,5%	28,8%		29,3%	3,3%	15,0%	6,3%		55,8%	22,7%	10,6%	12,2%		46,7%	30,5%
HR	92,1%	3,6%		3,8%		80,4%	18,2%				65,3%	8,3%	2,0%	20,1%	4,4%	51,9%	32,9%		11,8%	3,5%
IS	15,9%	80,2%		3,1%		9,4%	79,9%		8,5%			40,4%		25,0%	26,9%	8,7%	63,5%		24,0%	
IT	94,2%	3,4%		2,3%	0,1%	74,6%	14,3%		11,0%		52,5%	13,6%	0,2%	33,0%	0,7%	40,0%	22,8%		34,9%	1,8%
CY	88,0%	9,3%		1,3%	1,3%	78,2%	21,0%		0,7%		35,7%	16,3%		36,9%	9,9%	51,9%	24,2%	0,7%	19,3%	3,8%
LV	84,6%	15,0%				80,4%	19,6%				35,2%	7,0%		56,1%		23,7%	26,8%		45,8%	
LT	91,6%	5,0%		3,4%		72,4%	13,6%		12,3%		26,6%		4,8%	61,8%		20,6%	13,3%	3,2%	57,7%	5,1%
LU	45,1%	24,2%		27,4%	3,1%	27,7%	27,2%		29,6%	14,8%						22,4%	23,4%		36,7%	17,5%
HU	82,2%	5,2%		11,3%	1,3%	60,4%	14,3%		22,5%	2,8%	4,5%	5,6%		76,3%	13,6%	5,0%	10,7%		75,1%	9,2%
MT	91,2%	4,0%				60,8%	24,6%		9,8%	4,8%	28,6%	20,0%		22,9%	28,6%	22,7%	35,9%		30,4%	11,0%
NL	46,3%	18,8%	8,6%	25,0%	1,4%	21,4%	45,5%	5,2%	25,7%	2,3%	7,8%	14,5%	37,8%	28,6%	11,2%	7,4%	31,8%	22,7%	27,8%	10,3%
NO	66,5%	24,1%	1,9%	1,8%	5,7%	47,4%	43,0%	3,2%	3,2%	3,2%	45,2%	25,3%	6,3%	2,5%	20,7%	31,3%	49,5%	9,6%	5,7%	4,0%

	ISCED 2 or below					ISCED 3-4 gen					ISCED 3-4 voc					ISCED 5-8				
	no work exp.	work outside curr.	mandatory WBL without further distinction possible	traineeship	apprenticeship	no work exp.	work outside curr.	mandatory WBL without further distinction possible	traineeship	apprenticeship	no work exp.	work outside curr.	mandatory WBL without further distinction possible	traineeship	apprenticeship	no work exp.	work outside curr.	mandatory WBL without further distinction possible	traineeship	apprenticeship
AT	80,8%	10,4%		8,2%		47,0%	43,7%		8,9%		11,6%	5,3%		10,3%	72,8%	24,5%	32,4%		35,9%	7,2%
PL	96,1%	2,3%		1,7%		87,8%	9,7%		2,5%		37,1%	7,0%		40,2%	15,8%	37,8%	22,4%		35,4%	4,4%
PT	83,8%	12,4%		3,6%		68,3%	28,4%		3,1%		45,5%	15,4%		37,2%		44,1%	32,2%		22,8%	
RO	96,4%	3,2%		0,4%		96,2%	3,8%				88,1%	1,9%		9,4%	0,6%	82,9%	5,9%		10,5%	
SI	90,0%	7,7%		2,2%		36,6%	55,7%		7,4%		36,2%	25,1%		29,5%	9,3%	14,4%	43,7%		32,0%	9,9%
SK	88,4%	2,0%		8,4%	1,2%	72,0%	20,5%		5,6%		27,8%	5,9%		50,0%	15,4%	31,2%	25,7%		34,2%	8,5%
FI				100,0%		24,2%	75,8%				8,7%	7,9%		74,0%	9,4%	5,8%	28,0%		58,4%	7,9%
SE	29,8%	32,6%		37,1%		20,9%	62,1%		16,3%		9,8%	28,3%	1,4%	57,1%	3,4%	9,2%	54,0%		34,4%	2,2%
CH	58,1%	38,2%	0,1%	2,4%	1,2%	27,0%	49,1%		13,7%	10,1%	3,6%	2,8%		1,5%	92,1%	7,3%	37,9%		21,3%	33,6%
UK	80,6%	12,6%		4,6%	2,1%	62,4%	32,7%		3,4%	1,5%	35,7%	20,5%	0,3%	13,6%	29,8%	36,0%	40,3%		14,2%	9,4%

NA: no respondents available | **(c): confidential** | **(a): low reliability, too low to be published** | **(u): low reliability, flagged publication**

NB: * High item non-response (>15%), results to be treated with caution.
'No work exp.': no work experience during highest level of education.
'Work outside curr.': work experience outside the curriculum.
'Traineeship': traineeships (LFS-AHM 2016, def.).
'Apprenticeship': apprenticeships (LFS-AHM 2016, def.).
'Mandatory WBL with no further distinction possible': mandatory work-based learning, (LFS-AHM 2016, def.) with no further distinction possible.
'ISCED 2 or below': low-level education, i.e. at most lower secondary education.
'ISCED 3-4 gen': general medium-level education.
'ISCED 3-4 voc': vocational medium-level education.
'ISCED 5-8': tertiary education.

Source: Eurostat EU-LFS 2016 AHM microdata, own calculations.

Table A.28. **Construction of dummy variables for educational background, work experience and work-based learning**

Education level	Orientation	Nature	G2_NWij	G2_WEij	G2_TRAPPij	G34_NWij	G34_WEij	G34_TRAPPij	V34_NWij	V34_WEij	V34_TRij	V34_APij	T5678_NWij	T5678_WEij	T5678_TRij	T5678_APij
ISCED 2 or below	N/A	No work experience	1	0	0	0	0	0	0	0	0	0	0	0	0	0
		Work outside curriculum	0	1	0	0	0	0	0	0	0	0	0	0	0	0
		Traineeships/ apprenticeships	0	0	1	0	0	0	0	0	0	0	0	0	0	0
ISCED 3-4	GEN	No work experience	0	0	0	1	0	0	0	0	0	0	0	0	0	0
		Work outside curriculum	0	0	0	0	1	0	0	0	0	0	0	0	0	0
		Traineeships/ apprenticeships	0	0	0	0	0	1	0	0	0	0	0	0	0	0
	VOC	No work experience	0	0	0	0	0	0	1	0	0	0	0	0	0	0
		Work outside curriculum	0	0	0	0	0	0	0	1	0	0	0	0	0	0
		Traineeships	0	0	0	0	0	0	0	0	1	0	0	0	0	0
		Apprenticeships	0	0	0	0	0	0	0	0	0	1	0	0	0	0
ISCED 5-8	N/A	No work experience	0	0	0	0	0	0	0	0	0	0	1	0	0	0
		Work outside curriculum	0	0	0	0	0	0	0	0	0	0	0	1	0	0
		Traineeships	0	0	0	0	0	0	0	0	0	0	0	0	1	0
		Apprenticeships	0	0	0	0	0	0	0	0	0	0	0	0	0	1

Source: Eurostat EU-LFS 2016 AHM microdata; own operationalisation.

Table A.29. **Work-based learning and work experience outside the curriculum by aggregated highest level of educational attainment (% respondents, LFS 2016 AHM)**

	1	2	3	6	7	8	11	12	14	15	16	17	19	20
	ISCED 2 or below	ISCED 2 or below	ISCED 2 or below	ISCED 3-4 gen	ISCED 3-4 gen	ISCED 3-4 gen	ISCED 3-4 voc	ISCED 3-4 voc	ISCED 3-4 voc	ISCED 3-4 voc	ISCED 5-8	ISCED 5-8	ISCED 5-8	ISCED 5-8
	no work exp.	work outside curr.	traineeship/ apprentice-ship	no work exp.	work outside curr.	traineeship/ apprentice-ship	no work exp.	work outside curr.	traineeship	apprentice-ship	no work exp.	work outside curr.	traineeship	apprentice-ship
BE	78,5%	11,3%	10,3%	57,5%	30,9%	11,5%	29,2%	14,5%	49,2%	7,1%	25,2%	20,5%	50,2%	4,0%
BG	98,0%	1,3%		88,9%	7,2%	3,9%	73,5%	5,7%	20,8%		41,4%	20,9%	37,7%	
CZ				47,7%	39,3%	13,0%	17,6%	14,8%	43,5%	24,1%	13,6%	27,3%	49,3%	9,9%
DK	46,5%	46,5%	6,9%	25,7%	70,5%	3,8%	30,2%	18,8%	9,1%	41,9%	13,3%	63,4%	18,5%	4,8%
DE	91,5%	5,7%	2,8%	73,5%	20,4%	6,0%	6,7%	7,7%	3,8%	81,8%	45,5%	24,9%	17,9%	11,8%
EE	88,0%	8,1%	3,8%	77,9%	19,3%		40,4%	5,7%	49,1%	4,7%	27,7%	28,8%	37,9%	5,5%
IE	87,5%	7,0%	5,5%	77,2%	20,4%	2,4%	51,5%	17,2%	15,9%	15,4%	40,6%	38,6%	17,3%	3,4%
EL	91,0%	7,1%	1,9%	86,4%	13,6%		68,4%	14,6%	9,3%	7,8%	60,5%	14,9%	8,9%	15,7%
ES	93,7%	5,3%	1,1%	88,6%	10,4%	1,1%	62,3%	11,2%	24,7%	1,8%	49,1%	22,7%	24,6%	3,6%
FR	28,1%	3,5%	68,4%	38,5%	28,8%	32,7%	15,0%	6,3%	56,0%	22,7%	10,6%	12,2%	46,8%	30,5%
HR	92,1%	3,6%	4,3%	80,4%	18,2%		65,3%	8,3%	22,1%	4,4%	51,9%	32,9%	11,8%	3,5%
IS	15,9%	80,2%	3,9%	9,4%	79,9%	10,7%		40,4%	25,0%	26,9%	8,7%	63,5%	24,0%	
IT	94,2%	3,4%	2,4%	74,6%	14,3%	11,1%	52,5%	13,6%	33,2%	0,7%	40,0%	22,8%	35,4%	1,8%
CY	88,0%	9,3%	2,7%	78,2%	21,0%	0,7%	35,7%	16,3%	38,0%	9,9%	51,9%	24,2%	20,1%	3,8%
LV	84,6%	15,0%		80,4%	19,6%		35,2%	7,0%	56,9%		23,7%	26,8%	47,2%	
LT	91,6%	5,0%	3,4%	72,4%	13,6%	14,0%	26,6%		66,7%		20,6%	13,3%	61,0%	5,1%
LU	45,1%	24,2%	30,6%	27,7%	27,2%	45,1%					22,4%	23,4%	36,7%	17,5%
HU	82,2%	5,2%	12,6%	60,4%	14,3%	25,3%	4,5%	5,6%	76,3%	13,6%	5,0%	10,7%	75,1%	9,2%
MT	91,2%	4,0%	4,8%	60,8%	24,6%	14,6%	28,6%	20,0%	22,9%	28,6%	22,7%	35,9%	30,4%	11,0%
NL	46,3%	18,8%	34,9%	21,4%	45,5%	33,1%	7,8%	14,5%	66,4%	11,2%	7,4%	31,8%	50,5%	10,3%
NO	66,5%	24,1%	9,4%	47,4%	43,0%	9,6%	45,2%	25,3%	8,8%	20,7%	31,3%	49,5%	15,2%	4,0%

	1	2	3	6	7	8	11	12	14	15	16	17	19	20
	ISCED 2 or below	ISCED 2 or below	ISCED 2 or below	ISCED 3-4 gen	ISCED 3-4 gen	ISCED 3-4 gen	ISCED 3-4 voc	ISCED 3-4 voc	ISCED 3-4 voc	ISCED 3-4 voc	ISCED 5-8	ISCED 5-8	ISCED 5-8	ISCED 5-8
	no work exp.	work outside curr.	traineeship/ apprentice-ship	no work exp.	work outside curr.	traineeship/ apprentice-ship	no work exp.	work outside curr.	traineeship	apprentice-ship	no work exp.	work outside curr.	traineeship	apprentice-ship
AT	80,8%	10,4%	8,8%	47,0%	43,7%	9,3%	11,6%	5,3%	10,3%	72,8%	24,5%	32,4%	35,9%	7,2%
PL	96,1%	2,3%	1,7%	87,8%	9,7%	2,5%	37,1%	7,0%	40,2%	15,8%	37,8%	22,4%	35,4%	4,4%
PT	83,8%	12,4%	3,8%	68,3%	28,4%	3,3%	45,5%	15,4%	37,7%		44,1%	32,2%	23,0%	
RO	96,4%	3,2%	0,5%	96,2%	3,8%		88,1%	1,9%	9,4%	0,6%	82,9%	5,9%	10,5%	
SI	90,0%	7,7%	2,3%	36,6%	55,7%	7,8%	36,2%	25,1%	29,5%	9,3%	14,4%	43,7%	32,0%	9,9%
SK	88,4%	2,0%	9,6%	72,0%	20,5%	7,5%	27,8%	5,9%	50,9%	15,4%	31,2%	25,7%	34,6%	8,5%
FI			100,0%	24,2%	75,8%		8,7%	7,9%	74,0%	9,4%	5,8%	28,0%	58,4%	7,9%
SE	29,8%	32,6%	37,6%	20,9%	62,1%	17,0%	9,8%	28,3%	58,5%	3,4%	9,2%	54,0%	34,6%	2,2%
CH	58,1%	38,2%	3,6%	27,0%	49,1%	23,9%	3,6%	2,8%	1,5%	92,1%	7,3%	37,9%	21,3%	33,6%
UK	80,6%	12,6%	6,8%	62,4%	32,7%	4,9%	35,7%	20,5%	13,9%	29,8%	36,0%	40,3%	14,4%	9,4%

NA: no respondents available | **(c): confidential** | **(a): low reliability, too low to be published** | **(u): low reliability, flagged publication**

NB: * High item non-response (>15%), results to be treated with caution.
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'Work outside curr.': work experience outside the curriculum.
'Traineeship/apprenticeship': traineeships/apprenticeships (EU-LFS AHM 2016 def.).
'Traineeship': traineeships (LFS-AHM 2016 def.).
'Apprenticeship': apprenticeships (LFS-AHM 2016, def.).
'ISCED 2 or below': low-level education, i.e. at most lower secondary education.
'ISCED 3-4 gen': general medium-level education.
'ISCED 3-4 voc': vocational medium-level education.
'ISCED 5-8': tertiary education.

Source: Eurostat EU-LFS 2016 AHM microdata, own calculations.