

## **Respondent background: Detailed results of statistical analyses**

### **Type of student one works with and the need for assessment training**

In this part of the report, the respondents' professional roles were examined. The respondents were divided into (1) those who only worked with younger students (from under 10-year-olds to 18-year-olds) and (2) those who only worked with adults only. The respondents working with both types of students were excluded from this analysis. (The variable 'st\_type2' in the ENLTA survey data file categorises the respondents into these two groups.)

Only the respondents who were based in European countries were included and who replied to the first part of the questionnaire (the Teachers' questionnaire) were included in these analyses.

The following presents the more detailed results of the statistical analyses by which the relationship between background variables and the respondents' need for assessment training were studied. The results are extracts from the SPSS output files. Only the statistically significant results are reported here.

The analyses reported here are based on the Chi-Square Tests. The SPSS-programme that was used on compute the chi-squares defines them in the following way:

“The Chi-Square Test procedure tabulates a variable into categories and computes a chi-square statistic. This goodness-of-fit test compares the observed and expected frequencies in each category to test either that all categories contain the same proportion of values or that each category contains a user-specified proportion of values.”

To interpret the chi-square output, please pay attention to the following points.

- (1) The smaller table 'Chi-Square Tests' shows if there is a statistically significant relationship between the two variables that are studied. The first row (Pearson Chi-Square) displays the Chi-Square value and the significance level of the finding (Asymp. Sig.). If the significance level is smaller than .05, there is a significant relationship between the two variables, i.e. the observed frequencies in the 'Crosstab' table are not based on chance. The number of observations in each cell of the table should be more than 5; if there are too many cells with fewer than 5 observations, the chi-square test / value is not reliable (note the extra row of text immediately after the 'Chi-Square Tests' table).
- (2) The bigger table 'Crosstab' displays how the respondents in the two or more background categories replied to the question concerning their need to receive training on the particular assessment activity or concept. 'Count' shows the number of actual responses in each category and 'Expected Count' shows what the expected number should have been if the distribution of responses were based on chance alone, given the total number of respondents in the two or more groups compared.
- (3) The percentage row displays the percentage of the observed responses in each category (i.e. it is based on the 'Count'), and is useful in interpreting and describing the results in practice.
- (4) Standardized Residuals in the last row in each cell are useful in locating where exactly the observed overall relationship / difference (identified by the significant chi-square value) takes place. Roughly speaking, if the standardized residual is bigger than +2.0 or smaller than -2.0, then the difference between the observed value (Count) and the expected value in that cell is significant. Note that if the statistical significance level of the chi-square is not very strong (i.e. it is only somewhat smaller than .05), the standardized residuals may not be outside the +/- 2.0 range for any of the cells in the table, and thus, it is difficult to say what exactly is the source for the significant overall chi-square value. However, in such cases, too, it is probably the cells with the highest standardized residuals which contribute the most to the overall significant results (see e.g. the table for the activity 'Giving feedback' below).

## Giving feedback \* Student type: only children vs. only adults

Crosstab

		Student type: only children vs. only adults		Total	
		works only with children (under 10 - 18)	works only with adults		
Giving feedback	no need for training	Count	36	98	134
		Expected Count	48,4	85,6	134,0
		% within Student type: only children vs. only adults	24,3%	37,4%	32,7%
	need basic training	Std. Residual	-1,8	1,3	
		Count	39	42	81
		Expected Count	29,2	51,8	81,0
	need more advanced training	% within Student type: only children vs. only adults	26,4%	16,0%	19,8%
		Std. Residual	1,8	-1,4	
		Count	73	122	195
Total	Expected Count	70,4	124,6	195,0	
	% within Student type: only children vs. only adults	49,3%	46,6%	47,6%	
	Std. Residual	,3	-,2		
	Count	148	262	410	
		Expected Count	148,0	262,0	410,0
		% within Student type: only children vs. only adults	100,0%	100,0%	100,0%

### Chi-Square Tests

	Value	df	Asymp. Sig. (2-sided)
Pearson Chi-Square	10,202(a)	2	,006
Likelihood Ratio	10,247	2	,006
Linear-by-Linear Association	3,034	1	,082
N of Valid Cases	410		

a 0 cells (,0%) have expected count less than 5. The minimum expected count is 29,24.

## To give grades \* Student type: only children vs. only adults

**Crosstab**

			Student type: only children vs. only adults		Total	
			works only with children (under 10 - 18)	works only with adults		
To give grades	no need for training	Count	59	114	173	
		Expected Count	63,9	109,1	173,0	
		% within Student type: only children vs. only adults	40,4%	45,8%	43,8%	
		Std. Residual	-,6	,5		
		need basic training	Count	31	25	56
			Expected Count	20,7	35,3	56,0
	% within Student type: only children vs. only adults		21,2%	10,0%	14,2%	
	need more advanced training	Count	56	110	166	
		Expected Count	61,4	104,6	166,0	
		% within Student type: only children vs. only adults	38,4%	44,2%	42,0%	
	Total	Count	146	249	395	
		Expected Count	146,0	249,0	395,0	
		% within Student type: only children vs. only adults	100,0%	100,0%	100,0%	
		Std. Residual	-,7	,5		

**Chi-Square Tests**

	Value	df	Asymp. Sig. (2-sided)
Pearson Chi-Square	9,481(a)	2	,009
Likelihood Ratio	9,156	2	,010
Linear-by-Linear Association	,002	1	,963
N of Valid Cases	395		

a 0 cells (,0%) have expected count less than 5. The minimum expected count is 20,70.

**To find out what needs to be taught \* Student type: only children vs. only adults**

**Crosstab**

			Student type: only children vs. only adults		Total
			works only with children (under 10 - 18)	works only with adults	
To find out what needs to be taught	no need for training	Count	44	98	142
		Expected Count	51,4	90,6	142,0
		% within Student type: only children vs. only adults	31,9%	40,3%	37,3%
	need basic training	Std. Residual	-1,0	,8	
		Count	35	34	69
		Expected Count	25,0	44,0	69,0
	need more advanced training	% within Student type: only children vs. only adults	25,4%	14,0%	18,1%
		Std. Residual	2,0	-1,5	
		Count	59	111	170
	Total	Expected Count	61,6	108,4	170,0
		% within Student type: only children vs. only adults	42,8%	45,7%	44,6%
		Std. Residual	-,3	,2	
Count		138	243	381	
		Expected Count	138,0	243,0	381,0
		% within Student type: only children vs. only adults	100,0%	100,0%	100,0%

**Chi-Square Tests**

	Value	df	Asymp. Sig. (2-sided)
Pearson Chi-Square	8,137(a)	2	,017
Likelihood Ratio	7,925	2	,019
Linear-by-Linear Association	,329	1	,566
N of Valid Cases	381		

a 0 cells (,0%) have expected count less than 5. The minimum expected count is 24,99.

## To place students \* Student type: only children vs. only adults

Crosstab

		Student type: only children vs. only adults		Total	
		works only with children (under 10 - 18)	works only with adults		
To place students	no need for training	Count	51	109	160
		Expected Count	57,4	102,6	160,0
		% within Student type: only children vs. only adults	37,8%	45,2%	42,6%
	need basic training	Std. Residual	-,9	,6	
		Count	42	33	75
		Expected Count	26,9	48,1	75,0
	need more advanced training	% within Student type: only children vs. only adults	31,1%	13,7%	19,9%
		Std. Residual	2,9	-2,2	
		Count	42	99	141
Total	Expected Count	50,6	90,4	141,0	
	% within Student type: only children vs. only adults	31,1%	41,1%	37,5%	
	Std. Residual	-1,2	,9		
	Count	135	241	376	
		Expected Count	135,0	241,0	376,0
		% within Student type: only children vs. only adults	100,0%	100,0%	100,0%

### Chi-Square Tests

	Value	df	Asymp. Sig. (2-sided)
Pearson Chi-Square	16,582(a)	2	,000
Likelihood Ratio	16,017	2	,000
Linear-by-Linear Association	,069	1	,793
N of Valid Cases	376		

a 0 cells (,0%) have expected count less than 5. The minimum expected count is 26,93.

**To award final certificates \* Student type: only children vs. only adults**

**Crosstab**

		Student type: only children vs. only adults		Total	
		works only with children (under 10 - 18)	works only with adults		
To award final certificates	no need for training	Count	49	106	155
		Expected Count	54,3	100,7	155,0
		% within Student type: only children vs. only adults	37,1%	43,3%	41,1%
		Std. Residual	-,7	,5	
	need basic training	Count	42	35	77
		Expected Count	27,0	50,0	77,0
		% within Student type: only children vs. only adults	31,8%	14,3%	20,4%
		Std. Residual	2,9	-2,1	
	need more advanced training	Count	41	104	145
		Expected Count	50,8	94,2	145,0
		% within Student type: only children vs. only adults	31,1%	42,4%	38,5%
		Std. Residual	-1,4	1,0	
Total	Count	132	245	377	
	Expected Count	132,0	245,0	377,0	
	% within Student type: only children vs. only adults	100,0%	100,0%	100,0%	

**Chi-Square Tests**

	Value	df	Asymp. Sig. (2-sided)
Pearson Chi-Square	16,591(a)	2	,000
Likelihood Ratio	16,008	2	,000
Linear-by-Linear Association	,296	1	,586
N of Valid Cases	377		

a. 0 cells (.0%) have expected count less than 5. The minimum expected count is 26,96.

## Testing receptive skills \* Student type: only children vs. only adults

Crosstab

			Student type: only children vs. only adults		
			works only with children (under 10 - 18)	works only with adults	Total
Testing receptive skills	no need for training	Count	39	82	121
		Expected Count	45,3	75,7	121,0
		% within Student type: only children vs. only adults	26,5%	33,3%	30,8%
		Std. Residual	-,9	,7	
	need basic training	Count	27	24	51
		Expected Count	19,1	31,9	51,0
		% within Student type: only children vs. only adults	18,4%	9,8%	13,0%
		Std. Residual	1,8	-1,4	
	need more advanced training	Count	81	140	221
		Expected Count	82,7	138,3	221,0
		% within Student type: only children vs. only adults	55,1%	56,9%	56,2%
		Std. Residual	-,2	,1	
Total	Count	147	246	393	
	Expected Count	147,0	246,0	393,0	
	% within Student type: only children vs. only adults	100,0%	100,0%	100,0%	

### Chi-Square Tests

	Value	df	Asymp. Sig. (2-sided)
Pearson Chi-Square	6,694(a)	2	,035
Likelihood Ratio	6,531	2	,038
Linear-by-Linear Association	,284	1	,594
N of Valid Cases	393		

a 0 cells (,0%) have expected count less than 5. The minimum expected count is 19,08.

## Testing productive skills \* Student type: only children vs. only adults

Crosstab

			Student type: only children vs. only adults		Total
			works only with children (under 10 - 18)	works only with adults	
Testing productive skills	no need for training	Count	35	80	115
		Expected Count	43,4	71,6	115,0
		% within Student type: only children vs. only adults	23,6%	32,8%	29,3%
	need basic training	Std. Residual	-1,3	1,0	
		Count	25	21	46
		Expected Count	17,4	28,6	46,0
	need more advanced training	% within Student type: only children vs. only adults	16,9%	8,6%	11,7%
		Std. Residual	1,8	-1,4	
		Count	88	143	231
	Total	Expected Count	87,2	143,8	231,0
		% within Student type: only children vs. only adults	59,5%	58,6%	58,9%
		Std. Residual	,1	-,1	
Count		148	244	392	
		Expected Count	148,0	244,0	392,0
		% within Student type: only children vs. only adults	100,0%	100,0%	100,0%

### Chi-Square Tests

	Value	df	Asymp. Sig. (2-sided)
Pearson Chi-Square	8,023(a)	2	,018
Likelihood Ratio	7,907	2	,019
Linear-by-Linear Association	1,154	1	,283
N of Valid Cases	392		

a. 0 cells (.0%) have expected count less than 5. The minimum expected count is 17,37.



## Testing grammar/vocabulary \* Student type: only children vs. only adults

Crosstab

		Count	Student type: only children vs. only adults		Total
			works only with children (under 10 - 18)	works only with adults	
Testing grammar/vocabulary	no need for training	Count	44	89	133
		Expected Count	50,4	82,6	133,0
		% within Student type: only children vs. only adults	29,9%	36,9%	34,3%
		Std. Residual	-,9	,7	
	need basic training	Count	29	24	53
		Expected Count	20,1	32,9	53,0
		% within Student type: only children vs. only adults	19,7%	10,0%	13,7%
		Std. Residual	2,0	-1,6	
	need more advanced training	Count	74	128	202
		Expected Count	76,5	125,5	202,0
		% within Student type: only children vs. only adults	50,3%	53,1%	52,1%
		Std. Residual	-,3	,2	
Total	Count	147	241	388	
	Expected Count	147,0	241,0	388,0	
	% within Student type: only children vs. only adults	100,0%	100,0%	100,0%	

### Chi-Square Tests

	Value	df	Asymp. Sig. (2-sided)
Pearson Chi-Square	7,819(a)	2	,020
Likelihood Ratio	7,614	2	,022
Linear-by-Linear Association	,196	1	,658
N of Valid Cases	388		

a. 0 cells (.0%) have expected count less than 5. The minimum expected count is 20,08.

## Testing integrated language skills \* Student type: only children vs. only adults

Crosstab

			Student type: only children vs. only adults		Total
			works only with children (under 10 - 18)	works only with adults	
Testing integrated language skills	no need for training	Count	25	74	99
		Expected Count	36,4	62,6	99,0
		% within Student type: only children vs. only adults	17,7%	30,5%	25,8%
		Std. Residual	-1,9	1,4	
	need basic training	Count	35	35	70
		Expected Count	25,7	44,3	70,0
		% within Student type: only children vs. only adults	24,8%	14,4%	18,2%
		Std. Residual	1,8	-1,4	
	need more advanced training	Count	81	134	215
		Expected Count	78,9	136,1	215,0
		% within Student type: only children vs. only adults	57,4%	55,1%	56,0%
		Std. Residual	,2	-,2	
Total	Count	141	243	384	
	Expected Count	141,0	243,0	384,0	
	% within Student type: only children vs. only adults	100,0%	100,0%	100,0%	

Chi-Square Tests

	Value	df	Asymp. Sig. (2-sided)
Pearson Chi-Square	11,000(a)	2	,004
Likelihood Ratio	11,134	2	,004
Linear-by-Linear Association	2,766	1	,096
N of Valid Cases	384		

a. 0 cells (.0%) have expected count less than 5. The minimum expected count is 25,70.

## Testing aspects of culture \* Student type: only children vs. only adults

Crosstab

		Student type: only children vs. only adults		Total	
		works only with children (under 10 - 18)	works only with adults		
Testing aspects of culture	no need for training	Count	30	77	107
		Expected Count	40,1	66,9	107,0
		% within Student type: only children vs. only adults	21,1%	32,5%	28,2%
		Std. Residual	-1,6	1,2	
	need basic training	Count	44	48	92
		Expected Count	34,5	57,5	92,0
		% within Student type: only children vs. only adults	31,0%	20,3%	24,3%
		Std. Residual	1,6	-1,3	
	need more advanced training	Count	68	112	180
		Expected Count	67,4	112,6	180,0
		% within Student type: only children vs. only adults	47,9%	47,3%	47,5%
		Std. Residual	,1	-,1	
Total	Count	142	237	379	
	Expected Count	142,0	237,0	379,0	
	% within Student type: only children vs. only adults	100,0%	100,0%	100,0%	

### Chi-Square Tests

	Value	df	Asymp. Sig. (2-sided)
Pearson Chi-Square	8,282(a)	2	,016
Likelihood Ratio	8,337	2	,015
Linear-by-Linear Association	1,769	1	,184
N of Valid Cases	379		

a. 0 cells (.0%) have expected count less than 5. The minimum expected count is 34,47.

## Using statistics \* Student type: only children vs. only adults

Crosstab

			Student type: only children vs. only adults		Total
			works only with children (under 10 - 18)	works only with adults	
Using statistics	no need for training	Count	30	40	70
		Expected Count	25,8	44,2	70,0
		% within Student type: only children vs. only adults	21,0%	16,3%	18,0%
		Std. Residual	,8	-,6	
	need basic training	Count	58	72	130
		Expected Count	47,9	82,1	130,0
		% within Student type: only children vs. only adults	40,6%	29,4%	33,5%
		Std. Residual	1,5	-1,1	
	need more advanced training	Count	55	133	188
		Expected Count	69,3	118,7	188,0
		% within Student type: only children vs. only adults	38,5%	54,3%	48,5%
		Std. Residual	-1,7	1,3	
Total	Count	143	245	388	
	Expected Count	143,0	245,0	388,0	
	% within Student type: only children vs. only adults	100,0%	100,0%	100,0%	

### Chi-Square Tests

	Value	df	Asymp. Sig. (2-sided)
Pearson Chi-Square	9,113(a)	2	,010
Likelihood Ratio	9,173	2	,010
Linear-by-Linear Association	6,597	1	,010
N of Valid Cases	388		

a 0 cells (,0%) have expected count less than 5. The minimum expected count is 25,80.

## External: taking part in rating \* Student type: only children vs. only adults

Crosstab

			Student type: only children vs. only adults		Total
			works only with children (under 10 - 18)	works only with adults	
External: taking part in rating	no need for training	Count	36	88	124
		Expected Count	47,2	76,8	124,0
		% within Student type: only children vs. only adults	25,0%	37,6%	32,8%
		Std. Residual	-1,6	1,3	
	need basic training	Count	38	34	72
		Expected Count	27,4	44,6	72,0
		% within Student type: only children vs. only adults	26,4%	14,5%	19,0%
		Std. Residual	2,0	-1,6	
	need more advanced training	Count	70	112	182
		Expected Count	69,3	112,7	182,0
		% within Student type: only children vs. only adults	48,6%	47,9%	48,1%
		Std. Residual	,1	-,1	
Total	Count	144	234	378	
	Expected Count	144,0	234,0	378,0	
	% within Student type: only children vs. only adults	100,0%	100,0%	100,0%	

### Chi-Square Tests

	Value	df	Asymp. Sig. (2-sided)
Pearson Chi-Square	10,911(a)	2	,004
Likelihood Ratio	10,862	2	,004
Linear-by-Linear Association	2,017	1	,156
N of Valid Cases	378		

a. 0 cells (.0%) have expected count less than 5. The minimum expected count is 27,43.

## External: acting as an interviewer \* Student type: only children vs. only adults

Crosstab

		Student type: only children vs. only adults		Total	
		works only with children (under 10 - 18)	works only with adults		
External: acting as an interviewer	no need for training	Count	36	88	124
		Expected Count	47,3	76,7	124,0
		% within Student type: only children vs. only adults	24,5%	37,0%	32,2%
		Std. Residual	-1,6	1,3	
	need basic training	Count	39	45	84
		Expected Count	32,1	51,9	84,0
		% within Student type: only children vs. only adults	26,5%	18,9%	21,8%
		Std. Residual	1,2	-1,0	
	need more advanced training	Count	72	105	177
		Expected Count	67,6	109,4	177,0
		% within Student type: only children vs. only adults	49,0%	44,1%	46,0%
		Std. Residual	,5	-,4	
Total	Count	147	238	385	
	Expected Count	147,0	238,0	385,0	
	% within Student type: only children vs. only adults	100,0%	100,0%	100,0%	
	Std. Residual				

Chi-Square Tests

	Value	df	Asymp. Sig. (2-sided)
Pearson Chi-Square	7,285(a)	2	,026
Likelihood Ratio	7,399	2	,025
Linear-by-Linear Association	3,575	1	,059
N of Valid Cases	385		

a. 0 cells (.0%) have expected count less than 5. The minimum expected count is 32,07.

**External: defining assessment criteria \* Student type: only children vs. only adults**

**Crosstab**

			Student type: only children vs. only adults		Total
			works only with children (under 10 - 18)	works only with adults	
External: defining assessment criteria	no need for training	Count	28	67	95
		Expected Count	35,6	59,4	95,0
		% within Student type: only children vs. only adults	19,7%	28,3%	25,1%
		Std. Residual	-1,3	1,0	
	need basic training	Count	44	44	88
		Expected Count	33,0	55,0	88,0
		% within Student type: only children vs. only adults	31,0%	18,6%	23,2%
		Std. Residual	1,9	-1,5	
	need more advanced training	Count	70	126	196
		Expected Count	73,4	122,6	196,0
		% within Student type: only children vs. only adults	49,3%	53,2%	51,7%
		Std. Residual	-,4	,3	
Total	Count	142	237	379	
	Expected Count	142,0	237,0	379,0	
	% within Student type: only children vs. only adults	100,0%	100,0%	100,0%	

**Chi-Square Tests**

	Value	df	Asymp. Sig. (2-sided)
Pearson Chi-Square	8,747(a)	2	,013
Likelihood Ratio	8,650	2	,013
Linear-by-Linear Association	,279	1	,598
N of Valid Cases	379		

a 0 cells (,0%) have expected count less than 5. The minimum expected count is 32,97.

**Teachers - total nbr of activities etc with need for basic education (Banded) \*  
Student type: only children vs. only adults**

**Crosstab**

			Student type: only children vs. only adults		Total
			works only with children (under 10 - 18)	works only with adults	
Teachers - total nbr of activities etc with need for basic education (Banded)	5 or fewer basic	Count	7	27	34
		Expected Count	13,1	20,9	34,0
		% within Student type: only children vs. only adults	5,9%	14,2%	11,0%
	5-10 basic	Std. Residual	-1,7	1,3	
		Count	29	60	89
		Expected Count	34,3	54,7	89,0
	10-15 basic	% within Student type: only children vs. only adults	24,4%	31,6%	28,8%
		Std. Residual	-,9	,7	
		Count	20	47	67
	15-20 basic	Expected Count	25,8	41,2	67,0
		% within Student type: only children vs. only adults	16,8%	24,7%	21,7%
		Std. Residual	-1,1	,9	
	20 or more basic	Count	31	24	55
		Expected Count	21,2	33,8	55,0
		% within Student type: only children vs. only adults	26,1%	12,6%	17,8%
	Total	Std. Residual	2,1	-1,7	
		Count	32	32	64
		Expected Count	24,6	39,4	64,0
	Total	% within Student type: only children vs. only adults	26,9%	16,8%	20,7%
		Std. Residual	1,5	-1,2	
Count		119	190	309	
Expected Count		119,0	190,0	309,0	
		% within Student type: only children vs. only adults	100,0%	100,0%	100,0%



### Chi-Square Tests

	Value	df	Asymp. Sig. (2-sided)
Pearson Chi-Square	19,024(a)	4	,001
Likelihood Ratio	19,216	4	,001
Linear-by-Linear Association	13,901	1	,000
N of Valid Cases	309		

a. 0 cells (.0%) have expected count less than 5. The minimum expected count is 13,09.