

Appendix J. Results of the Ethical Competence Questionnaire

This appendix contains the full results of the analyses of the data from the Ethical Competence Questionnaire. The most relevant results were already discussed in section 14.1.4. In this appendix, the results are again structured by cell of the ethical competence framework. Under each cell, the results are presented for prisons A and B together (with statistical testing); for prison A and B separately (with statistical testing); and for each of the six participating training groups (without statistical testing, descriptive statistics only). In the tables, significant results are marked with an asterisk. The values of the statistical tests that were performed are presented in footnotes.

Cell 2: Applying rules

For all the analyses in this cell, McNemar's test was performed. The exact values and statistics for all sub-analyses in the different groups are presented in the tables below. None of the results for this cell were significant.

Table 33 Results for cell 2, 'applying rules', by sub-group

Vignette	Test	Correct	Incorrect
Overall			
Excessive violence ¹⁹⁷	Pre-test	33	10
	Post-test	37	6
Tenant ¹⁹⁸	Pre-test	40	5
	Post-test	39	6
Prison A			
Excessive violence ¹⁹⁹	Pre-test	9	7
	Post-test	12	4
Tenant ²⁰⁰	Pre-test	17	1
	Post-test	17	1
Prison B			
Excessive violence ²⁰¹	Pre-test	24	3
	Post-test	25	2
Tenant ²⁰²	Pre-test	23	4
	Post-test	22	5
Group A1			
Excessive violence	Pre-test	4	3
	Post-test	5	2
Tenant	Pre-test	7	1
	Post-test	7	1
Group A2			
Excessive violence	Pre-test	5	4
	Post-test	7	2
Tenant	Pre-test	10	0
	Post-test	10	0

¹⁹⁷ p=0.289, n=43

¹⁹⁸ p=1.000, n = 45

¹⁹⁹ p=0.375, n=16

²⁰⁰ Since results here are identical, it makes no sense to perform the McNemar's test.

²⁰¹ p=1.000, n=27

²⁰² p=1.000, n=27

Table 34 Results for cell 2, 'applying rules', by sub-group (continued)

Vignette	Test	Correct	Incorrect
Group B1			
Excessive violence	Pre-test	6	1
	Post-test	6	1
Tenant	Pre-test	6	1
	Post-test	6	1
Group B2			
Excessive violence	Pre-test	5	1
	Post-test	6	0
Tenant	Pre-test	5	1
	Post-test	6	0
Group B3			
Excessive violence	Pre-test	6	0
	Post-test	6	0
Tenant	Pre-test	6	1
	Post-test	5	2
Group B4			
Excessive violence	Pre-test	7	1
	Post-test	7	1
Tenant	Pre-test	6	1
	Post-test	5	2

Cell 3: Importance of rules

The Wilcoxon Signed Rank test was used for the statistical analyses performed on the results of this cell. The results are presented in the table below. None of the results were significant.

Table 35 Results for cell 3, 'Importance of rules', by sub-group

Test	N	Minimum	Maximum	Mean	Standard deviation
Overall²⁰³					
Pre-test	45	6.00	18.00	12.11	3.35
Post-test	45	5.00	18.00	12.18	3.45
Prison A²⁰⁴					
Pre-test	18	7.00	18.00	12.56	3.63
Post-test	18	7.00	18.00	13.22	3.28
Prison B²⁰⁵					
Pre-test	27	6.00	18.00	11.81	3.19
Post-test	27	5.00	18.00	11.48	3.45
Group A1					
Pre-test	8	7.00	18.00	12.75	4.10
Post-test	8	7.00	18.00	13.00	3.30
Group A2					
Pre-test	10	8.00	18.00	12.40	3.44
Post-test	10	9.00	18.00	13.40	3.44
Group B1					
Pre-test	8	9.00	17.00	12.25	2.60
Post-test	8	8.00	15.00	10.88	2.47
Group B2					
Pre-test	5	6.00	18.00	11.60	5.55
Post-test	5	7.00	18.00	12.80	5.07
Group B3					
Pre-test	7	6.00	15.00	12.00	3.37
Post-test	7	9.00	17.00	12.14	2.85
Group B4					
Pre-test	7	9.00	14.00	11.29	1.89
Post-test	7	5.00	18.00	10.57	3.95

²⁰³ $z=0.009$, $p=0.993$, $n=45$

²⁰⁴ $z=-1.027$, $p=0.304$, $n=18$

²⁰⁵ $z=-0.751$, $p=0.453$, $n=27$

Cell 4: Position in the organization and society

The Wilcoxon Signed Rank test was used for the statistical analyses for this cell. The results are presented in the table below. The overall results and the results for prison B were significant. In addition, the results for prison B barely reached significance.

Table 36 Results for cell 4, 'Position in the organization and society', by sub-group

Test	N	Minimum	Maximum	Mean	Standard deviation
Overall*²⁰⁶					
Pre-test	45	21.00	55.00	42.62	7.93
Post-test	45	25.00	56.00	44.96	7.20
Prison A²⁰⁷					
Pre-test	18	29.00	48.00	41.83	5.76
Post-test	18	25.00	56.00	44.17	7.53
Prison B*²⁰⁸					
Pre-test	27	21.00	55.00	43.15	9.16
Post-test	27	28.00	56.00	45.48	7.06
Group A1					
Pre-test	8	29.00	48.00	40.88	7.45
Post-test	8	25.00	56.00	42.75	9.11
Group A2					
Pre-test	10	37.00	48.00	42.60	4.25
Post-test	10	35.00	56.00	45.30	6.27
Group B1					
Pre-test	8	36.00	54.00	47.38	6.09
Post-test	8	32.00	56.00	48.25	7.79
Group B2					
Pre-test	5	24.00	52.00	41.80	10.73
Post-test	5	28.00	50.00	42.40	8.65
Group B3					
Pre-test	7	43.00	55.00	48.14	4.67
Post-test	7	43.00	56.00	48.71	4.79
Group B4					
Pre-test	7	21.00	45.00	34.29	8.69
Post-test	7	35.00	48.00	41.29	4.64

²⁰⁶ z=-2,322, p=0.020, n=45

²⁰⁷ z=-1.305, p=0.192, n=18

²⁰⁸ z=-1.969, p=0.049, n=27

Cell 5: Defining a situation as an ethical one and seeing different solutions

This cell had two components. **Defining a situation as an ethical one** was measured in different ways. First, respondents had to indicate whether they believed the situations depicted in the **excessive violence and tenant vignettes** constituted ethical dilemmas. Second, there were two scales measuring the construct of moral attentiveness. The first measured whether officers **generally recognized ethical issues** when encountering them; the second subscale for moral attentiveness measured whether officers also **reflected on ethical decisions**.

The second component of this cell is **seeing different solutions**, which was measured by having participants come up with as many different solutions as they could in response to a third vignette in which officers are confronted with an ex-prisoner. Given that this cell thus had so many different subscales, it was decided to present the results using one table per subscale. These tables are presented below. All the analyses were performed using the Wilcoxon Signed Rank test.

Defining a situation as an ethical one

Excessive violence vignette

None of the results for this vignette were significant.

Table 37 Results for cell 5, 'defining a situation as an ethical one and seeing different solutions', excessive violence vignette, by sub-group

Test	N	Minimum	Maximum	Mean	Standard deviation
Overall²⁰⁹					
Pre-test	43	2.00	14.00	8.23	3.05
Post-test	43	4.00	14.00	8.74	2.41
Prison A²¹⁰					
Pre-test	16	2.00	12.00	7.19	2.95
Post-test	16	4.00	12.00	8.12	2.19
Prison B²¹¹					
Pre-test	27	2.00	14.00	8.85	3.00
Post-test	27	5.00	14.00	9.11	2.50
Group A1					
Pre-test	8	2.00	9.00	6.00	2.56
Post-test	8	6.00	12.00	8.00	2.14
Group A2					
Pre-test	8	4.00	12.00	8.38	2.97
Post-test	8	4.00	11.00	8.25	2.38
Group B1					
Pre-test	7	6.00	13.00	8.86	2.19
Post-test	7	7.00	14.00	9.29	2.29
Group B2					
Pre-test	6	6.00	12.00	10.00	2.45
Post-test	6	7.00	13.00	9.00	2.19
Group B3					
Pre-test	7	4.00	14.00	9.86	3.85
Post-test	7	5.00	13.00	10.57	2.99
Group B4					
Pre-test	7	2.00	10.00	6.86	2.67
Post-test	7	5.00	10.00	7.57	1.90

²⁰⁹ z=-1.134, p=0.257, n=43

²¹⁰ z=-1.704, p=0.088, n=16. Although this result is not significant, it is close, which given the small sample may still be interesting.

²¹¹ z=-0.099, p=0.921, n=27

Tenant vignette

None of the results for this vignette were significant.

Table 38 Results for cell 5, 'defining a situation as an ethical one and seeing different solutions', tenant vignette, by sub-group

Test	N	Minimum	Maximum	Mean	Standard deviation
Overall²¹²					
Pre-test	43	2.00	13.00	8.16	2.91
Post-test	43	2.00	14.00	8.67	2.97
Prison A²¹³					
Pre-test	17	2.00	13.00	8.00	3.26
Post-test	17	4.00	14.00	8.59	2.99
Prison B²¹⁴					
Pre-test	26	4.00	12.00	8.27	2.72
Post-test	26	2.00	14.00	8.73	3.01
Group A1					
Pre-test	8	6.00	12.00	8.00	2.62
Post-test	8	4.00	12.00	9.13	2.70
Group A2					
Pre-test	8	2.00	13.00	8.00	3.91
Post-test	8	4.00	14.00	8.11	3.30
Group B1					
Pre-test	6	6.00	12.00	8.83	2.56
Post-test	6	4.00	14.00	9.83	3.37
Group B2					
Pre-test	6	4.00	12.00	8.33	3.72
Post-test	6	2.00	13.00	7.83	4.31
Group B3					
Pre-test	7	5.00	12.00	9.14	2.61
Post-test	7	5.00	12.00	8.57	2.44
Group B4					
Pre-test	7	4.00	9.00	6.86	1.86
Post-test	7	6.00	12.00	8.71	2.21

²¹² z=-1.514, p=0.130, n=41

²¹³ z=-1.305, p=0.192, n=17

²¹⁴ z=-1.054, p=0.292, n=26

General recognition of ethical dilemmas

For this subscale, the results for the overall analysis and the separate analyses for prisons A and B revealed significant results.

Table 39 Results for cell 5, 'defining a situation as an ethical one and seeing different solutions', 'general recognition' subscale, by sub-group

Test	N	Minimum	Maximum	Mean	Standard deviation
Overall*²¹⁵					
Pre-test	41	13.00	38.00	24.19	5.82
Post-test	41	15.00	41.00	26.70	5.51
Prison A*²¹⁶					
Pre-test	15	16.00	38.00	24.07	5.68
Post-test	15	15.00	36.00	26.20	5.45
Prison B*²¹⁷					
Pre-test	26	13.00	34.00	24.27	6.02
Post-test	26	15.00	41.00	27.00	5.64
Group A1					
Pre-test	8	17.00	27.00	21.88	2.75
Post-test	8	18.00	32.00	25.88	4.19
Group A2					
Pre-test	7	16.00	38.00	26.57	7.25
Post-test	7	15.00	36.00	26.57	6.97
Group B1					
Pre-test	8	13.00	31.00	23.50	6.23
Post-test	8	15.00	25.00	25.00	5.70
Group B2					
Pre-test	4	13.00	28.00	18.25	6.70
Post-test	4	16.00	36.00	25.75	8.66
Group B3					
Pre-test	7	18.00	34.00	26.86	5.70
Post-test	7	25.00	32.00	28.29	2.56
Group B4					
Pre-test	7	21.00	31.00	26.00	3.83
Post-test	7	23.00	41.00	28.71	6.21

Reflecting on ethical decisions

For this subscale, no significant results were found.

²¹⁵ $z=-3.249$, $p=0.001$, $n=41$

²¹⁶ $z=-2.369$, $p=0.018$, $n=15$.

²¹⁷ $z=-2.351$, $p=0.019$, $n=26$.

Table 40 Results for cell 5, 'defining a situation as an ethical one and seeing different solutions', 'general recognition' subscale, by sub-group

Test	N	Minimum	Maximum	Mean	Standard deviation
Overall²¹⁸					
Pre-test	44	3.00	21.00	13.25	3.41
Post-test	44	9.00	21.00	13.52	2.95
Prison A²¹⁹					
Pre-test	16	3.00	18.00	12.25	3.49
Post-test	16	9.00	16.00	11.81	2.14
Prison B²²⁰					
Pre-test	28	6.00	21.00	13.82	3.29
Post-test	28	9.00	21.00	14.50	2.94
Group A1					
Pre-test	8	3.00	15.00	11.50	3.93
Post-test	8	9.00	14.00	11.13	1.73
Group A2					
Pre-test	8	9.00	18.00	13.00	3.07
Post-test	8	10.00	16.00	12.50	2.39
Group B1					
Pre-test	8	10.00	18.00	14.00	2.78
Post-test	8	11.00	17.00	14.38	2.38
Group B2					
Pre-test	6	9.00	18.00	14.50	3.21
Post-test	6	9.00	18.00	13.67	3.61
Group B3					
Pre-test	6	6.00	21.00	13.33	5.92
Post-test	6	13.00	21.00	17.17	3.37
Group B4					
Pre-test	8	12.00	14.00	13.50	0.93
Post-test	8	11.00	15.00	13.25	1.28

²¹⁸ z=-0.162, p=0.871, n=44

²¹⁹ z=-1.191, p=0.234, n=16

²²⁰ z=-0.996, p=0.334, n=28

Seeing different solutions

For this second subcomponent of cell 5, no significant results were found.

Table 41 Results for cell 5, 'defining a situation as an ethical one and seeing different solutions', 'general recognition' subscale, by sub-group

Test	N	Minimum	Maximum	Mean	Standard deviation
Overall²²¹					
Pre-test	45	1.00	8.00	2.31	1.51
Post-test	45	1.00	12.00	2.58	2.18
Prison A²²²					
Pre-test	17	1	4	2.06	1.03
Post-test	17	1	7	2.47	1.90
Prison B²²³					
Pre-test	28	1	8	2.46	1.73
Post-test	28	1	12	2.64	2.36
Group A1					
Pre-test	7	1	4	1.86	1.069
Post-test	7	1	4	1.71	1.254
Group A2					
Pre-test	10	1	4	2.20	1.033
Post-test	10	1	7	3.00	2.160
Group B1					
Pre-test	7	1	5	2.57	1.618
Post-test	7	1	6	3.00	2.236
Group B2					
Pre-test	6	1	5	2.17	1.60
Post-test	6	1	3	1.67	0.82
Group B3					
Pre-test	7	1	8	3.43	2.30
Post-test	7	1	12	3.57	3.99
Group B4					
Pre-test	8	1	4	1.75	1.17
Post-test	8	1	4	2.25	1.04

²²¹ $z=-1.257$, $p=0.209$, $n=45$

²²² $z=-1.218$, $p=0.223$, $n=17$

²²³ $z=-0.639$, $p=0.523$, $n=28$

Cell 6: Cognitive and emotional empathy

For this cell, it needs to be noted again that only the scale for cognitive empathy was analyzed, given that the emotional empathy scale did not perform sufficiently well in the factor analyses. For more information, see Appendix I. No significant results were found for this cell.

Table 42 Results for cell 5, 'Cognitive and emotional empathy', cognitive empathy subscale, by sub-group

Test	N	Minimum	Maximum	Mean	Standard deviation
Overall²²⁴					
Pre-test	44	10.00	35.00	26.18	4.24
Post-test	44	13.00	35.00	26.70	3.87
Prison A²²⁵					
Pre-test	18	21.00	35.00	26.11	3.63
Post-test	18	21.00	35.00	26.72	3.85
Prison B²²⁶					
Pre-test	26	10.00	34.00	26.23	4.69
Post-test	26	13.00	34.00	26.69	3.96
Group A1					
Pre-test	8	21.00	29.00	25.13	3.04
Post-test	8	21.00	33.00	26.75	3.73
Group A2					
Pre-test	10	22.00	35.00	26.90	4.01
Post-test	10	21.00	35.00	26.70	4.14
Group B1					
Pre-test	7	23.00	30.00	27.86	2.41
Post-test	7	20.00	34.00	27.29	4.57
Group B2					
Pre-test	5	10.00	34.00	24.60	8.99
Post-test	5	13.00	28.00	24.20	6.50
Group B3					
Pre-test	7	22.00	31.00	26.29	2.98
Post-test	7	26.00	31.00	28.14	1.77
Group B4					
Pre-test	7	20.00	32.00	25.71	4.19
Post-test	7	24.00	29.00	26.43	2.23

Cell 8: Using different moral arguments

Cell 8 was measured for both the excessive violence and tenant vignettes. Note that for the tenant vignette, the number of individuals in the '2 types' category is small (see 14.1.3), which might skew the results. No significant results were found here.

²²⁴ $z=-1.006$, $p=0.314$, $n=44$

²²⁵ $z=-0.434$, $p=0.664$, $n=18$

²²⁶ $z=-0.865$, $p=0.387$, $n=26$

Table 43 Results for cell 8, 'using different moral arguments', by sub-group

Vignette	Test	2 types	3 types
Overall			
Excessive violence ²²⁷	Pre-test	20	19
	Post-test	14	25
Tenant ²²⁸	Pre-test	6	32
	Post-test	8	30
Prison A			
Excessive violence ²²⁹	Pre-test	7	6
	Post-test	6	7
Tenant ²³⁰	Pre-test	4	9
	Post-test	4	9
Prison B			
Excessive violence ²³¹	Pre-test	13	13
	Post-test	8	18
Tenant ²³²	Pre-test	2	23
	Post-test	4	21
Group A1			
Excessive violence	Pre-test	3	2
	Post-test	2	3
Tenant	Pre-test	2	4
	Post-test	1	5
Group A2			
Excessive violence	Pre-test	4	4
	Post-test	4	4
Tenant	Pre-test	2	5
	Post-test	3	4

²²⁷ p=0.146, n=39

²²⁸ p=0.754, n=38

²²⁹ p=1.000, n=13

²³⁰ p=1.000, n=13

²³¹ p=0.180, n=26

²³² p=0.687, n=25

Table 44 Results for cell 8, 'using different moral arguments', by sub-group (continued)

Vignette	Test	2 types	3 types
Group B1			
Excessive violence	Pre-test	3	5
	Post-test	3	5
Tenant	Pre-test	1	7
	Post-test	1	7
Group B2			
Excessive violence	Pre-test	3	3
	Post-test	2	4
Tenant	Pre-test	0	4
	Post-test	0	4
Group B3			
Excessive violence	Pre-test	3	3
	Post-test	2	4
Tenant	Pre-test	0	4
	Post-test	0	4
Group B4			
Excessive violence	Pre-test	4	3
	Post-test	2	5
Tenant	Pre-test	0	7
	Post-test	2	5

Cell 9: Attitude of flexibility

Cell 9 had two subscales. These are presented below in separate tables.

Dealing flexibly with problems

No significant results were found for this subscale.

Table 45 Results for cell 9, 'Attitude of flexibility', 'dealing flexibly with problems' subscale, by sub-group

Test	N	Minimum	Maximum	Mean	Standard deviation
Overall²³³					
Pre-test	47	21.00	34.00	26.51	3.20
Post-test	47	15.00	35.00	26.55	3.60
Prison A²³⁴					
Pre-test	18	23.00	34.00	25.94	2.60
Post-test	18	21.00	30.00	25.78	3.28
Prison B²³⁵					
Pre-test	29	21.00	34.00	26.86	3.51
Post-test	29	15.00	33.00	27.03	3.76
Group A1					
Pre-test	8	23.00	28.00	25.13	1.96
Post-test	8	21.00	30.00	25.13	3.76
Group A2					
Pre-test	10	24.00	34.00	26.60	2.95
Post-test	10	22.00	30.00	26.30	2.95
Group B1					
Pre-test	8	21.00	29.00	25.88	2.75
Post-test	8	15.00	30.00	25.25	4.59
Group B2					
Pre-test	6	23.00	34.00	28.83	4.62
Post-test	6	21.00	33.00	28.83	4.36
Group B3					
Pre-test	7	22.00	32.00	27.43	3.69
Post-test	7	24.00	32.00	28.29	3.25
Group B4					
Pre-test	8	22.00	32.00	25.88	3.00
Post-test	8	25.00	31.00	26.38	2.07

²³³ $z=-0.425$, $p=0.671$, $n=47$

²³⁴ $z=-0.086$, $p=0.932$, $n=18$

²³⁵ $z=-0.513$, $p=0.608$, $n=29$

General attitude of flexibility towards life

The results for this subscale show a significant finding for the overall group and for prison A.

Table 46 Results for cell 9, 'Attitude of flexibility', 'general attitude of flexibility towards life' subscale, by sub-group

Test	N	Minimum	Maximum	Mean	Standard deviation
Overall*²³⁶					
Pre-test	47	2.00	13.00	7.02	2.80
Post-test	47	2.00	12.00	6.00	2.35
Prison A*²³⁷					
Pre-test	18	2.00	11.00	6.94	2.65
Post-test	18	2.00	11.00	5.61	2.38
Prison B²³⁸					
Pre-test	29	3.00	13.00	7.07	2.94
Post-test	29	3.00	12.00	6.24	2.34
Group A1					
Pre-test	8	4.00	11.00	7.25	3.01
Post-test	8	4.00	11.00	5.50	2.45
Group A2					
Pre-test	10	2.00	10.00	6.70	2.45
Post-test	10	2.00	10.00	5.70	2.45
Group B1					
Pre-test	8	4.00	11.00	8.88	2.17
Post-test	8	4.00	12.00	7.38	2.56
Group B2					
Pre-test	6	4.00	11.00	7.00	3.22
Post-test	6	4.00	9.00	6.33	2.07
Group B3					
Pre-test	7	3.00	13.00	7.00	3.65
Post-test	7	3.00	7.00	5.43	1.51
Group B4					
Pre-test	8	4.00	9.00	5.38	2.00
Post-test	8	3.00	12.00	5.75	2.82

²³⁶ z=-2.389, p=0.017, n=47

²³⁷ z=-2.429, p=0.015, n=18

²³⁸ z=-1.285, p=0.199, n=29

Cell 11: Priority to rules and consequences for others

Cell 11 refers to the ability to prioritize rules and consequences for others over self-interest. Like in cell 8, only two of the three respondent groups were analyzed because the remaining group remained empty (see 14.1.3.8). The tables below show the results for both the excessive violence and tenant vignettes.

Table 47 Results for cell 11, 'Priority to rules and consequences for others', by sub-group

Vignette	Test	'Rules' and/or 'consequences for others' + 'no autonomy'/'self-interest'	Only 'rules' or 'consequences for others'
Overall			
Excessive violence ²³⁹	Pre-test	14	17
	Post-test	14	17
Tenant ²⁴⁰	Pre-test	14	14
	Post-test	12	16
Prison A			
Excessive violence ²⁴¹	Pre-test	4	8
	Post-test	3	9
Tenant ²⁴²	Pre-test	4	7
	Post-test	5	6
Prison B			
Excessive violence ²⁴³	Pre-test	10	9
	Post-test	11	8
Tenant ²⁴⁴	Pre-test	10	7
	Post-test	7	10
Group A1			
Excessive violence	Pre-test	2	3
	Post-test	2	3
Tenant	Pre-test	1	3
	Post-test	3	1

²³⁹ p=1.000, n=31

²⁴⁰ p=0.774, n=28

²⁴¹ p=1.000, n=12

²⁴² p=1.000, n=11

²⁴³ p=1.000, n=19

²⁴⁴ p=0.453, n=17

Table 48 Results for cell 11, 'Priority to rules and consequences for others', by sub-group (continued)

Vignette	Test	'Rules' and/or 'consequences for others' + 'no autonomy'/'self-interest'	Only 'rules' or 'consequences for others'
Group A2			
Excessive violence	Pre-test	2	5
	Post-test	1	6
Tenant	Pre-test	3	4
	Post-test	2	5
Group B1			
Excessive violence	Pre-test	3	3
	Post-test	3	3
Tenant	Pre-test	2	2
	Post-test	4	0
Group B2			
Excessive violence	Pre-test	2	2
	Post-test	2	2
Tenant	Pre-test	2	2
	Post-test	1	3
Group B3			
Excessive violence	Pre-test	3	4
	Post-test	5	2
Tenant	Pre-test	4	3
	Post-test	2	5
Group B4			
Excessive violence	Pre-test	2	0
	Post-test	1	1
Tenant	Pre-test	2	0
	Post-test	0	2

Cell 12: Autonomy and moral courage

Cell 12 has two subcompetences: autonomy and moral courage.

Autonomy

Table 49 Results for cell 12, 'Autonomy and moral courage', 'autonomy' subcompetence, by sub-group

Test	N	Minimum	Maximum	Mean	Standard deviation
Overall²⁴⁵					
Pre-test	47	11.00	28.00	18.89	3.85
Post-test	47	11.00	28.00	19.53	3.91
Prison A²⁴⁶					
Pre-test	18	13.00	25.00	20.06	3.57
Post-test	18	11.00	24.00	19.39	3.78
Prison B²⁴⁷					
Pre-test	29	11.00	28.00	18.17	3.90
Post-test	29	13.00	28.00	19.62	4.06
Group A1					
Pre-test	8	16.00	25.00	20.88	3.48
Post-test	8	13.00	24.00	19.63	3.70
Group A2					
Pre-test	10	13.00	25.00	19.40	3.69
Post-test	10	11.00	24.00	19.20	4.02
Group B1					
Pre-test	8	14.00	21.00	17.88	2.59
Post-test	8	15.00	23.00	20.75	2.66
Group B2					
Pre-test	6	14.00	28.00	20.33	4.76
Post-test	6	16.00	28.00	22.50	4.55
Group B3					
Pre-test	7	11.00	22.00	16.29	3.77
Post-test	7	14.00	21.00	16.71	2.81
Group B4					
Pre-test	8	12.00	25.00	18.50	4.25
Post-test	8	13.00	26.00	18.88	4.42

²⁴⁵ z=-0.687, p=0.492, n=47

²⁴⁶ z=-1.528, p=0.127, n=18

²⁴⁷ z=-1.710, p=0.087, n=29

Moral courage

Table 50 Results for cell 12, 'Autonomy and moral courage', 'moral courage' subcompetence, by sub-group

Test	N	Minimum	Maximum	Mean	Standard deviation
Overall²⁴⁸					
Pre-test	45	6.00	18.00	12.51	3.47
Post-test	45	6.00	18.00	12.56	3.47
Prison A²⁴⁹					
Pre-test	16	9.00	18.00	13.31	3.34
Post-test	16	7.00	18.00	13.00	3.35
Prison B²⁵⁰					
Pre-test	29	6.00	18.00	12.07	3.51
Post-test	29	6.00	18.00	12.31	3.57
Group A1					
Pre-test	8	9.00	18.00	14.25	3.20
Post-test	8	7.00	18.00	14.00	3.38
Group A2					
Pre-test	8	9.00	18.00	12.38	3.42
Post-test	8	8.00	18.00	12.00	3.21
Group B1					
Pre-test	8	6.00	17.00	11.50	4.54
Post-test	8	6.00	15.00	12.25	3.54
Group B2					
Pre-test	6	7.00	18.00	13.50	4.04
Post-test	6	9.00	18.00	14.83	3.60
Group B3					
Pre-test	7	10.00	18.00	12.71	2.87
Post-test	7	8.00	17.00	13.29	2.93
Group B4					
Pre-test	8	7.00	14.00	11.00	2.51
Post-test	8	7.00	15.00	9.63	2.67

²⁴⁸ z=-0.255, p=0.798, n=45

²⁴⁹ z=-0.564, p=0.573, n=16

²⁵⁰ z=-0.605, p=0.545, n=29