

Technical Test Battery (TTB2)

Reliability: South Africans, Afrikaans Speakers, Updated 2016

Sample Composition

The sample consisted of respondents who had completed any of the subtests of the Technical Test Battery (TTB2) battery in the period up to June 2015, via GeneSys for Windows. Since not all the respondents completed all the subtests, biographical information is reported separately for the three tests.

Mechanical Reasoning Test: Biographical Composition

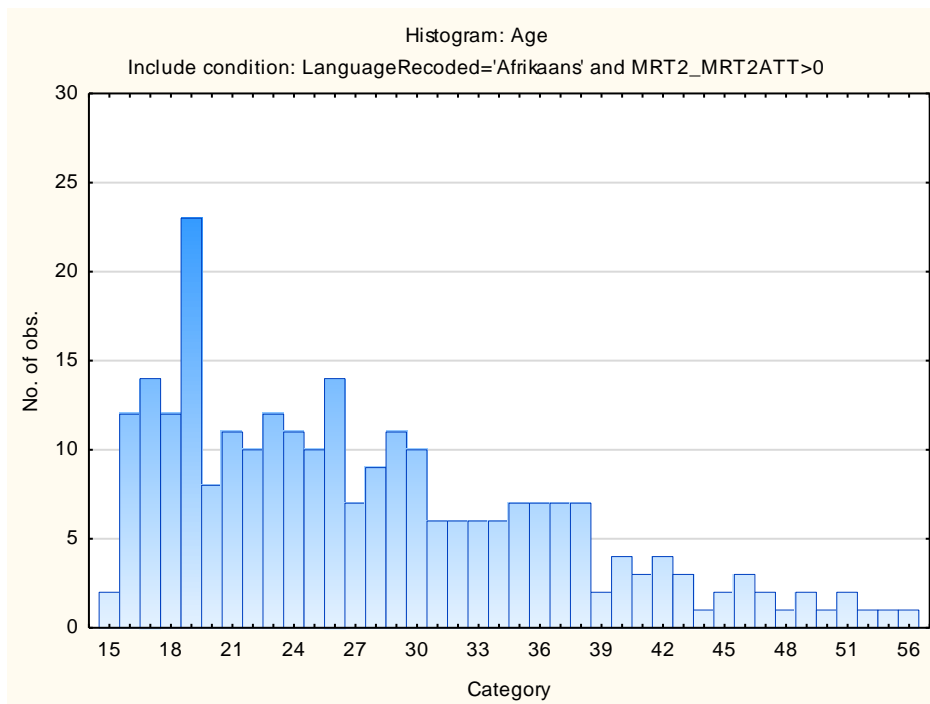
Category	Frequency table: Sex			
	Count	Cumulative Count	Percent	Cumulative Percent
M	232	232	85,92593	85,9259
F	38	270	14,07407	100,0000
Missing	0	270	0,00000	100,0000

Category	Frequency table: Education			
	Count	Cumulative Count	Percent	Cumulative Percent
Tertiary	61	61	22,59259	22,5926
< Matric	48	109	17,77778	40,3704
Grade 12	124	233	45,92593	86,2963
Post Graduate	3	236	1,11111	87,4074
Missing	34	270	12,59259	100,0000

Category	Frequency table: Language			
	Count	Cumulative Count	Percent	Cumulative Percent
Afrikaans	270	270	100,0000	100,0000
Missing	0	270	0,0000	100,0000

Category	Frequency table: Race			
	Count	Cumulative Count	Percent	Cumulative Percent
African	11	11	4,07407	4,0741
European	212	223	78,51852	82,5926
Coloured	39	262	14,44444	97,0370
Asian	1	263	0,37037	97,4074
Missing	7	270	2,59259	100,0000

Variable	Descriptive Statistics: Age					
	Mean	Std.Dev	Minimum	Maximum	N	No.cases Missing
Age	27,67816	9,121607	15,00000	56,00000	261	9



Spatial Reasoning Test: Biographical Composition

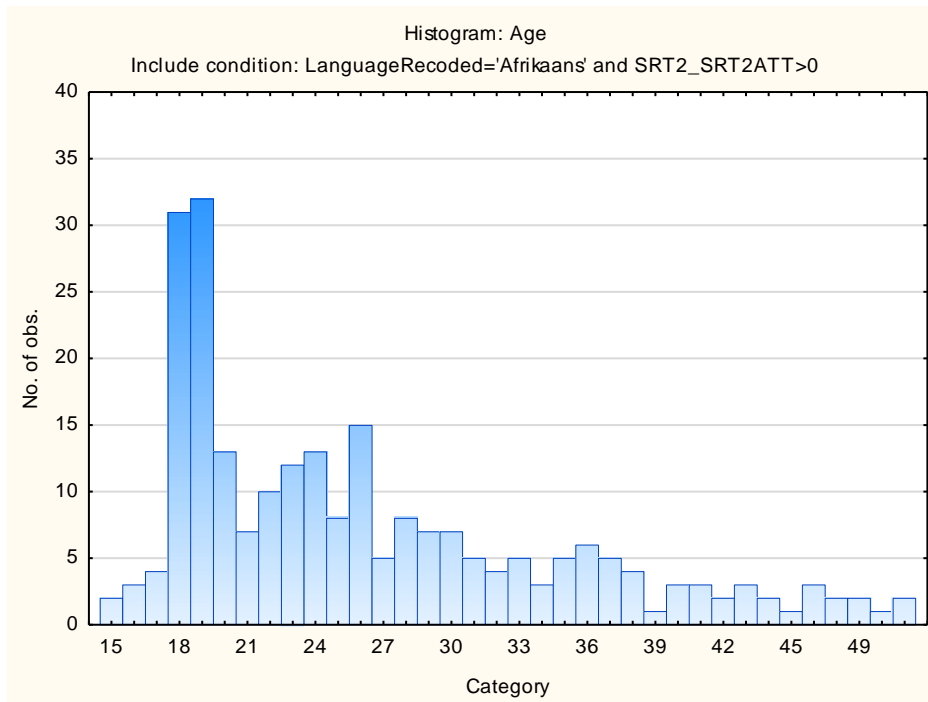
Category	Frequency table: Sex			
	Count	Cumulative Count	Percent	Cumulative Percent
M	224	224	91,80328	91,8033
F	20	244	8,19672	100,0000
Missing	0	244	0,00000	100,0000

Category	Frequency table: Education			
	Count	Cumulative Count	Percent	Cumulative Percent
Tertiary	57	57	23,36066	23,3607
< Matric	34	91	13,93443	37,2951
Grade 12	130	221	53,27869	90,5738
Missing	23	244	9,42623	100,0000

Category	Frequency table: Language			
	Count	Cumulative Count	Percent	Cumulative Percent
Afrikaans	244	244	100,0000	100,0000
Missing	0	244	0,0000	100,0000

Category	Frequency table: Race			
	Count	Cumulative Count	Percent	Cumulative Percent
African	4	4	1,63934	1,6393
European	167	171	68,44262	70,0820
Coloured	64	235	26,22951	96,3115
Missing	9	244	3,68852	100,0000

Variable	Descriptive Statistics: Age					
	Mean	Std.Dev	Minimum	Maximum	N	No.cases Missing
Age	26,26360	8,516517	15,00000	51,00000	239	5



Visual Acuity Test: Biographical Composition

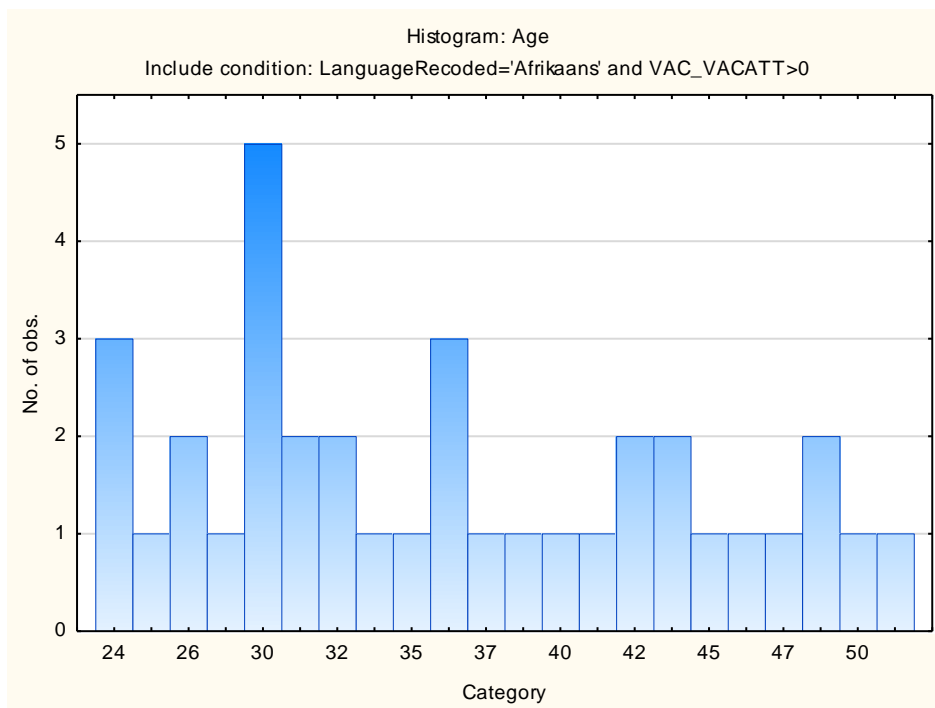
Category	Frequency table: Sex			
	Count	Cumulative Count	Percent	Cumulative Percent
M	36	36	97,29730	97,2973
F	1	37	2,70270	100,0000
Missing	0	37	0,00000	100,0000

Category	Frequency table: Education			
	Count	Cumulative Count	Percent	Cumulative Percent
Tertiary	26	26	70,27027	70,2703
< Matric	3	29	8,10811	78,3784
Grade 12	8	37	21,62162	100,0000
Missing	0	37	0,00000	100,0000

Category	Frequency table: Language			
	Count	Cumulative Count	Percent	Cumulative Percent
Afrikaans	37	37	100,0000	100,0000
Missing	0	37	0,0000	100,0000

Category	Frequency table: Race			
	Count	Cumulative Count	Percent	Cumulative Percent
European	34	34	91,89189	91,8919
Coloured	3	37	8,10811	100,0000
Missing	0	37	0,00000	100,0000

Variable	Descriptive Statistics: Age					
	Mean	Std.Dev	Minimum	Maximum	N	No.cases Missing
Age	35,94444	8,221729	24,00000	51,00000	36	1



Cronbach Coefficient Alpha for Technical Test Battery Subtests:

Subtest	Cronbach Coefficient Alpha
Mechanical Reasoning Test	0,81
Spatial Reasoning Test	0,81

There was insufficient data to report on reliability for the VAC.

Standard Error of Measurement

Subtest	SEM	SD	Reliability
Mechanical Reasoning Test	2,72587407	6,253584	0,81
Spatial Reasoning Test	2,30209799	5,281375	0,81