Appendix 1

Questionnaire (Managers)

QUESTIONNAIRE 1 - FOR MANAGERS AND SUPERVISORS

SECTION A

The information belo	ow is for matching purposes and will	l be ke _l	ot strictly confidential.
Agency Name:			
Agency telephone nur	nber:		
Agency facsimile num	ıber:		
	·		
Please complete the follow	ing by placing the appropriate number	in each	box □
1. What is your g	gender?		
	Male 1		
	Female 2		
2. What is your a	ge (in whole years)?		
3. What is your c	ountry of Origin?		. —
7*		*	
	Australia UK/Ireland	1 2	
	Italy	3	
	Other (please specify below)	4	
		i	
4. With which cu	lture do you most identify?		
· · · · · · · · · · · · · · · · · · ·	ituie do you most identity.		
	Australia	1	
	UK/Ireland	2	
	Italy Other (please specify below)	3 4	
		•	

(Please turn over - note that pages are double-sided)

	Numbers)	ì
6.	What is the location of the work site where you spend most of your time?	
]
	Melbourne Metropolitan 1 Area	
	Provincial City (Victoria) 2	
	Rural Victoria 3	
	Hobart Metropolitan Area 4	
	Provincial City (Tasmania) 5	
	Rural Tasmania 6	
	Accessible venue 1 Alternative print formatting 2	
	Alternative print formatting 2	
	Attendant care 3	
•	Audio loop 4	
	Facilitated communication 5	
	Physical access to training venues 6	
	Language interpreter 7	
	Signing interpreter 8 Specialised transport to training venue 9	
	Specialised transport to training venue 9 Other (please specify below) 10	
8.	What are your total hours of employment per week in the Agency (Total your hours if you work in more than one disability agency)	y?
).	What are the average hours per week you spend in a managemen i.e. time <u>not</u> spent in any other role such as direct service delivery your hours if you work in more than one disability agency)	
	In your entire career, what has been your main work focus? e.g.	

How many	years have you worked as a man	ager?	
How many g disability se	years in total have you been emp ctor?	oloyed as	a manager in the
How many s	staff report <u>directly</u> to you?		
How many s	staff are there under your <u>direct</u>	and indi	rect control?
How many v	volunteers are there under your	<u>direct an</u>	d indirect contro
			_
What is the	<u>highest</u> level of formal study you	ı have ac	hieved?
What is the			hieved?
What is the	Less than year 10	1	hieved?
What is the	Less than year 10 High school year 10	1 .2	hieved?
What is the	Less than year 10 High school year 10 High school year 12	1 .2 3	hieved?
What is the	Less than year 10 High school year 10 High school year 12 TAFE Certificate	1 .2 3 4	hieved?
What is the	Less than year 10 High school year 10 High school year 12 TAFE Certificate Associate Diploma	1 .2 3	hieved?
What is the	Less than year 10 High school year 10 High school year 12 TAFE Certificate Associate Diploma Diploma	1 .2 3 4 5	hieved?
What is the	Less than year 10 High school year 10 High school year 12 TAFE Certificate Associate Diploma	1 .2 3 4 5 6	hieved?
What is the	Less than year 10 High school year 10 High school year 12 TAFE Certificate Associate Diploma Diploma Undergraduate degree Graduate	1 .2 .3 .4 .5 .6 .7	hieved?
What is the	Less than year 10 High school year 10 High school year 12 TAFE Certificate Associate Diploma Diploma Undergraduate degree Graduate Certificate/Diploma	1 .2 .3 .4 .5 .6 .7	hieved?
What is the	Less than year 10 High school year 10 High school year 12 TAFE Certificate Associate Diploma Diploma Undergraduate degree Graduate	1 .2 3 4 5 6 7 8	hieved?
What is the	Less than year 10 High school year 10 High school year 12 TAFE Certificate Associate Diploma Diploma Undergraduate degree Graduate Certificate/Diploma Higher degree (Masters)	1 .2 3 4 5 6 7 8	hieved?

(Please turn over - note that pages are double-sided)

	·		
	ACRACS	1	
	Nursing	2	
	Welfare Studies	3	
	Education	4	
	Social/Youth Work	5	
	Community Development	6	
	Management	7	
	Other (please specify below)	8	
Nam	ne of qualification		
Insti	tution		••••
Year	awarded		
	or area of emphasis		
Majo			
Majo	or area of emphasis	s) do you be	elong?
Majo To v	or area of emphasisvhich professional management group(s) do you b	elong?

In which field was your <u>highest</u> level of formal study?

19.

SECTION B

For each statement, and working from left to right, please complete the next table by placing the appropriate number or symbol in each box according to the following system:

Great emphasis	5
Some emphasis	4
Neutral	3
Little emphasis	2
No emphasis	1
Do not know	0
Not relevant for our Agency's planning system at this time	X

		This was th	raturba (transpolitrá referiba (tale)	This is the silour Agency	600000000000000000000000000000000000000	This shou	ild be the
	In our Agency planning	19	Taylan in ing ngangangan payagan			Agency in	the future
1.0	In our Agency planning There was an emphasis on				<u> </u>		
	internal client services	 		IIII 🔷		1111	
2	There was an emphasis on the			III ▶ [1111	
	efficiency of operations and	,		, -		·	
3	There was an emphasis on		<u></u>	ا د	_		_
	attracting and retaining high-	1111		IIII 🔷 [_	1111	 _
	quality employees						
4	There was an emphasis on	III 🖈		ı ıı ▶ [1111	
	analysis of financial strengths	,		, -		r	
5	and weaknesses There was an emphasis on		_	ا د	_ _		· 🗀
	analysis of general economic					III	L
	and business conditions						
6	There was an emphasis on			1111	_	. [
	analysis of government and			,		,	
7	political issues There was an amphasis an			. [<u> </u>		·
, 1	There was an emphasis on analysis of competitive trends	1111				1111	
8	There was an emphasis on			ı n	_	1111	
	performing market research	1111				3111	
9	There was an emphasis on	1111		Ⅲ		!!!!	
	analysis of supplier trends			, - , r		, ,	
10	There was an emphasis on analysis of external client and	1031					
	customer preferences						
11	· · · · · · · · · · · · · · · · · · ·			:::::	—		
	analysis of technological trends	ļ 			_	4	
12	1 · · · · · · · · · · · · · · · ·	1111			_}	1111	
13	marketing function There was an emphasis on the						
•	finance/accounting function	IIII 🏲		 			
14		1111			—	1111	
	personnel function						
15	1 *	1111		 		III	
16	operations function There was an emphasis on		_				
	portfolio analysis techniques						
	(e.g. BCG matrix)						
17		III		Ⅲ [1111	
	financial models (e.g.	•		,	_	·	
18	budgeting) There was an emphasis on		<u>_</u>		_ ,		┌ Тъ
•••	forecasting and trend analysis	1111	L	1111			
	techniques						
19	There was an emphasis on			11 11		III	
	strategic planning by the CEO			, , ,		,	
20	There was an emphasis on strategic planning by line	1111				III	
	managers						
21		ш		II II		(III II)	
	strategic planning by Board	1111	—	···· ···			_
	members				_		
22	There was an emphasis on involving all staff in strategic			1111		1181	
	planning						

٠,			И.	 4. e%	٠.,	30	9.00	2° 5		w	•
١	₹	F	Ü	7	1	1)	۸	7:	1	

PART A

Every worker in your Agency produces something during work. It may be a 'product' or a 'service'. Sometimes it is very difficult to identify the product or service. Below are listed some of the products and services that are 'produced' by non-government disability sector agencies.

Policies and proceduresPersonal carePlansIndividual consumer plansEmployment opportunitiesDelivered mailAdvocacy for consumersCommunity projectsReport writingTraining and developmentNew programsMeetings

These are just a few of the things being produced.

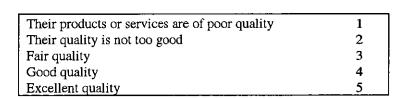
I would like you to think carefully of the things you produce in your work, and of the things produced by those people who work around you in your Agency.

Please complete the following and place the appropriate number in each box

1. Thinking now of the various things produced by people you know in your Agency, how much are they producing?

Their production is very low 1
It is fairly low 2
It is neither high nor low 3
It is fairly high 4
It is very high 5

2. How good would you say is the quality of the products or services produced by people you know in your Agency?



3. Do the people in your Agency seem to get maximum output from the resources (money, people, equipment, etc.) they have available? That is, how efficiently do they do their work?

	. 1111	`
They do not work efficiently at all	1	
Not too efficient	2	
Fairly efficient	3	
They are very efficient	4	
They are extremely efficient	5	

(Please turn over - note that pages are double-sided)

1 .	How good a job is done by people in your Agency in problems that may come up in the future and prevoccurring or minimising their effects?	_	_
	decurring of manifesting their effects.		
	They do a poor job in anticipating problems	1	
	Not too good a job	2	
	A fair job They do a very good job	3 4	
	They do an excellent job in anticipating problems	5	
5.	From time to time, newer ways are found to organi tools and ways are found with which to do the work the people in your Agency do at keeping up with the affect the way they do their work?	k. How go	od a job d
	They do a poor job of keeping up to date	1	
	Not too good a job	2	
	A fair job They do a good job	3 4	
	They do a good job They do an excellent job of keeping up to date	5	
•	Rather slowly Fairly rapidly They adjust very rapidly, but not immediately Most people accept and adjust immediately What proportion of the people in your Agency read	3 4 5	and
-	adjust to these changes?	-	
•	Considerably less than half accent and adjust	1	
	Considerably less than half accept and adjust Slightly less than half do	1 2	
	About half do	3	
	Considerably more than half do	4	
	Practically everyone accepts and adjusts	5	
•	From time to time emergencies arise, such as progra	ams crash	ing, or a
	breakdown in the flow of work occurs. When these they cause work overloads for many people. Some we these emergencies more readily and successfully that job do the people in your Agency do at coping with	emergene work grou an others.	ries occur, ps cope w How goo ations?
	breakdown in the flow of work occurs. When these they cause work overloads for many people. Some we these emergencies more readily and successfully that job do the people in your Agency do at coping with	emergend work grou in others. these situ	cies occur, ps cope w How goo
	breakdown in the flow of work occurs. When these they cause work overloads for many people. Some with these emergencies more readily and successfully that job do the people in your Agency do at coping with	emergeno work grou an others. these situ	ries occur, ps cope w How goo ations?
	breakdown in the flow of work occurs. When these they cause work overloads for many people. Some with these emergencies more readily and successfully that job do the people in your Agency do at coping with the they do a poor job of handling such situations. They do not do very well	e emergene work grou an others. these situ	ries occur, ps cope w How goo ations?
	breakdown in the flow of work occurs. When these they cause work overloads for many people. Some with these emergencies more readily and successfully that job do the people in your Agency do at coping with	emergeno work grou an others. these situ	ries occur, ps cope w How goo ations?

PART B

For each question in the table below, and working from left to right, please complete the table by placing the appropriate number or symbol in each box according to the following system:

Strongly agree	5
Agree	4
Neutral	3
Disagree	2
Strongly disagree	1
Do not know	0
Not relevant for our Agency's planning system at this time	X

	Agency Goals	This was the situation in our Agency between 1993 and 1998	This should be the situation in our Agency in the future
1	There was an improvement in short-term performance in accordance with Agency goals	□	>
2	There was an improvement in long-term performance in accordance with Agency goals	III II .	
3	There was an improvement in predicting future trends in accordance with Agency goals	□	
4	There was an improvement in evaluating alternatives in accordance with Agency goals	II EI	
5	There was an improvement in enhancing management development in accordance with Agency goals	:IIIII	

PART C

For each question below, place the appropriate number or symbol in each box according to the following system:

Strongly agree	5
Agree	4
Neutral	3
Disagree	2
Strongly disagree	1
Do not know	0
Not relevant to my job at this time	X

1	As I evaluate my future in the Agency, I feel my level of satisfaction will increase	Him	
2	I am somewhat dissatisfied with my job	1111	
3	If I came into enough money so that I could live comfortably without working, I would quit my job	1111	
4	I often think of changing jobs	III	
5	My job in the Agency gives me a great deal of personal satisfaction	1111	
6	I am satisfied with my job	1111	
7	Most other people in the Agency are more satisfied with their jobs than I am		
8	My central life interests lie outside of my job at the Agency		
9	My main interests in life are closely related to my job at the Agency		
10	When I am worried, it is usually about things related to my job		
11	I believe that other things are more important than my job at the Agency		
12	Most of my energy is directed toward my job		
13	In talking to my friends, I most like to talk about events related to my job		
14	My central concerns are job related		

PART D

For each box below, insert the appropriate % amount. An approximate percentage will suffice i.e. to the nearest 1 per cent, or put 'do not know' if you have no idea.

	Most recent full year available (%)	Year before that	Two years prior to latest full year available (%)
Profitability (Balance of all incoming funds compared to all outgoing funds)			

Appendix 2 Questionnaire (Other staff)

QUESTIONNAIRE 2 - FOR ALL OTHER EMPLOYEES

The information bel	ow is for mate	hing purposes and	will be kept st	rictly confidential.
Agency Name:				
Agency telephone nu	ımber:			
Agency facsimile nur	mber:			
Agency Address:				
			<u>.</u>	
PART A				
Every worker in your 'product' or a 'service service. Below are list non-government disab	c'. Sometime ted some of t	s it is very difficu he products and s	ilt to identify	the product or
Policies and procedur Individual consumer p Advocacy for consume Training and develop	olans ers	Personal care Employment op Community pro New programs	•	Plans Delivered mail Report writing Meetings
These are just a few o	f the things be	eing produced.		
I would like you to the things produced by the	-			
Please complete the fo	ollowing and p	place the appropr	iate number i	in each box 💢 🖼
1. Thinking now Agency, how		U .	ed by people	you know in your
	nuch are the	, producing.		
	Their produ	ction is very	1	
	It is fairly lo		2	
	It is neither It is fairly h	high nor low igh	3 4	
	It is very hi	gh	5	

produced by people you know in your Agency?	11
Their products or services are of poor	1
quality	1
Their quality is not too good	2
Fair quality	3
Good quality	4
Excellent quality	5
Do the people in your Agency seem to get maxim resources (money, people, equipment, etc.) they how efficiently do they do their work?	
They do not work efficiently at all Not too efficient	$\frac{1}{2}$
Fairly efficient	2 3
rainy chicient	5
They are very efficient	<i>A</i> 1
They are very efficient They are extremely efficient How good a job is done by people in your Agency problems that may come up in the future and proceduring or minimising their effects?	
They are extremely efficient How good a job is done by people in your Agency problems that may come up in the future and pro-	5 v in anticipating
They are extremely efficient How good a job is done by people in your Agency problems that may come up in the future and pro-	5 v in anticipating
They are extremely efficient How good a job is done by people in your Agency problems that may come up in the future and pro- proccurring or minimising their effects?	5 v in anticipating
They are extremely efficient How good a job is done by people in your Agency problems that may come up in the future and proccurring or minimising their effects? They do a poor job in anticipating problems Not too good a job A fair job	y in anticipating eventing them f
They are extremely efficient How good a job is done by people in your Agency problems that may come up in the future and proccurring or minimising their effects? They do a poor job in anticipating problems Not too good a job A fair job They do a very good job	y in anticipating eventing them f
They are extremely efficient How good a job is done by people in your Agency problems that may come up in the future and proccurring or minimising their effects? They do a poor job in anticipating problems Not too good a job A fair job	y in anticipating eventing them f
How good a job is done by people in your Agency problems that may come up in the future and proceduring or minimising their effects? They do a poor job in anticipating problems Not too good a job A fair job They do a very good job They do an excellent job in anticipating problems From time to time, newer ways are discovered to and newer equipment and techniques are found work. How good a job do the people in your Agentith those changes that could affect the way they are done to a poor job of keeping up to date Not too good a job	organise work, with which to do their work?
How good a job is done by people in your Agency problems that may come up in the future and proceduring or minimising their effects? They do a poor job in anticipating problems Not too good a job A fair job They do a very good job They do an excellent job in anticipating problems From time to time, newer ways are discovered to and newer equipment and techniques are found work. How good a job do the people in your Agentith those changes that could affect the way they	organise work, with which to do their work?
How good a job is done by people in your Agency problems that may come up in the future and proceduring or minimising their effects? They do a poor job in anticipating problems Not too good a job A fair job They do a very good job They do an excellent job in anticipating problems From time to time, newer ways are discovered to and newer equipment and techniques are found work. How good a job do the people in your Agentith those changes that could affect the way they are done to a poor job of keeping up to date Not too good a job	in anticipating eventing them for them for the formula of the form

	in your Agency accept and adjust to these cha	nges:	
			1111
	Most people accept and adjust very slowly	1	1
	Rather slowly		
	Fairly rapidly	2 3	
	They adjust very rapidly, but not immediately	4	
	Most people accept and adjust immediately	5]
What :	proportion of the people in your Agency readily	v acce	pt and
-	to these changes?	•	
			1111
	Considerably less than half accept and adjust	1	
	Slightly less than half do		
	About half do	2 3	
	Considerably more than half do	4.	
	Practically everyone accepts and adjusts	5	
breakd	ime to time emergencies arise, such as program own in the flow of work occurs. When these en use work overloads for many people. Some wo	merge	ncies occu
these e	mergencies more readily and successfully than	others	-
these e	• • •	others	-
these e	mergencies more readily and successfully than the people in your Agency do at coping with the	others lese sit	tuations?
these e job do	mergencies more readily and successfully than	others lese sit	tuations?
these e. job do	They do a poor job of handling such situations They do a fair job	others	tuations?
these e. job do	mergencies more readily and successfully than the people in your Agency do at coping with the people in your Agency do at coping with the fleey do a poor job of handling such situations They do not do very well	others	tuations?
these e. job do	They do a poor job of handling such situations They do a fair job	others	tuations?
these e. job do	They do a poor job of handling such situations They do a fair job They do a good job	others	tuations?
these e. job do	They do a poor job of handling such situations They do a fair job They do a good job	others	tuations?
these e. job do	They do a poor job of handling such situations They do a fair job They do a good job	others	tuations?

PART B

For each question in the table below, and working from left to right, please complete the table by placing the appropriate number or symbol in each box according to the following system:

Strongly agree	5
Agree	4
Neutral	3
Disagree	2
Strongly disagree	1
Do not know	0
Not relevant for our Agency's planning system at this time	X

	Agency Goals	This was the situation in our Agency between 1993 and 1998	This should be the situation in our Agency in the future
1	There was an improvement in short-term performance in accordance with Agency goals	illi 📥	
2	There was an improvement in long-term performance in accordance with Agency goals		□
3	There was an improvement in predicting future trends in accordance with Agency goals		
4	There was an improvement in evaluating alternatives in accordance with Agency goals	## *	· IIII 🗀
5	There was an improvement in enhancing management development in accordance with		::::::::::::::::::::::::::::::::::::::
	Agency goals		

PART C

For each question below, place the appropriate number or symbol in each box according to the following system:

Strongly agree	5
Agree	4
Neutral	3
Disagree	2
Strongly disagree	1
Do not know	0
Not relevant to my job at this time	X

80.0		
1	As I evaluate my future in the Agency, I feel my level of satisfaction will increase	
2	I am somewhat dissatisfied with my job	₩ 📑
3	If I came into enough money so that I could live comfortably without working, I would quit my job	
4	I often think of changing jobs	
5	My job in the Agency gives me a great deal of personal satisfaction	
6	I am satisfied with my job	
7	Most other people in the Agency are more satisfied with their jobs than I am	
8	My central life interests lie outside of my job at the Agency	
9	My main interests in life are closely related to my job at the Agency	
10	When I am worried, it is usually about things related to my job	
11	I believe that other things are more important than my job at the Agency	□
12	Most of my energy is directed toward my job	
13	In talking to my friends, I most like to talk about events related to my job	
14	My central concerns are job related	

PART D

For each box below, insert the appropriate % amount. An approximate percentage will sufffice i.e. to the nearest 1 per cent, or put 'do not know' if you have no idea.

	Most recent full year available (%)	Year before that (%)	Two years prior to latest full year available (%)
Profitability (Balance of all incoming funds compared to all outgoing funds)			

Appendix 3

Covering letter

6 October 1998

Dear Participant,

Have you ever wondered what makes a successful organisation? Is it 'good' managers? 'Good' staff? 'Good' planning? Longevity? Time spent in the industry? And what is 'successful'? Happy staff? Happy managers? Big 'profits'? If I can have 10-20 minutes of your time at your next coffee break, I may be able to answer some of these questions for you as part of the requirements for my PhD in Education.

This research is designed to study aspects of *your* life at work. Because *you* are the only one who can give a correct picture of how you experience your work life, I request you to respond to the questionnaire questions frankly and honestly. Your participation is entirely voluntary and you can withdraw at any time without prejudice.

There are two (2) questionnaires. The first (coloured blue) is for managers and supervisors only, and is in three sections. Managers and supervisors should answer all three sections of this questionnaire. The first page of questionnaire one commences 'QUESTIONNAIRE 1 - FOR MANAGERS AND SUPERVISORS, SECTION A'.

Managers and supervisors in this research refers to all those individuals who manage other (able-bodied) workers. 'Other workers' may include other managers, volunteers, functional workers (such as accounting/finance, administration, marketing and so on) and other support service workers.

Questionnaire two (coloured green) is only to be completed by all other (ablebodied) employees. All other employees should answer all parts of this questionnaire. The first page of questionnaire two commences 'QUESTIONNAIRE 2 - FOR ALL OTHER EMPLOYEES'.

Your response will be kept *strictly confidential*. Only my PhD Supervisor and myself will have access to the individual information you give. The numbers, names of agencies, and questionnaires will only be made available to members of the research team.

Please contact Harvey Griggs (Telephone 03 63 243061 or Facsimile 03 63 243369) if you require additional copies of the questionnaire or have any questions at all. If additional questionnaires are required, you may also photocopy as many as necessary.

When completed, all questionnaires from your agency should be bundled together and placed in the reply paid envelope and posted. Return date is Friday, 23 October, 1998.

A brief summary of the results will be forwarded to your agency after the data are analysed. Thank you very much for your time and cooperation. I greatly appreciate your organisation's and your help in furthering this research endeavour.

If you have any concerns of an ethical nature or complaints about the manner in which the project is conducted, you may contact the Chair or Executive Officer of the University Ethics Committee (Human Experimentation). In 1998 the Chair is Dr Margaret Otlowski, phone (03) 62 267569 and the Executive Officer is Ms Chris Hooper, phone (03) 62 262763.

The project has received approval from the University Ethics Committee (Human Experimentation).

Yours in research,

Harvey Griggs Lecturer in Management

Appendix 4

Aggregate correlations (Spearman) between education and training levels of top management teams and organisational performance (Teams n=137)

			Size	Location	Education and Training (Average)	Education and Training (Highest)	Management education and training (Average)	Management education and training (Highest)	Organisation effectiveness	Objective fulfilment	Job satisfaction	Central life interests
Spearman's rho	Size	Correlation Coefficient	1.000	-,069	.016	.190*	.345**	.477**	056	058	.264**	.018
		Sig. (2-talled)	,	.425	.854	.026	.000	.000	.518	.500	.002	.831
		<u> </u>	137	137	137	137	137	137	137	137	137	137
	Location	Correlation Coefficient	069	1.000	208*	-,357**	084	186*	059	-,086	-,082	039
		Slg. (2-tailed)	.425		.015	.000	.329	.030	,491	.315	.339	.654
		N	137	137	137	137	137	137	137	137	137	137
	Education and Training	Correlation Coefficient	.016	- 208*	1.000	.798**	.215*	.136	.411**	.243**	.218*	.021
	(Average)	Sig. (2-tailed)	.854	.015	•	.000	.012	.114	.000	.004	.010	.810
		N	137	137	137	137	137	137	137	137	137	137
	Education and Training	Correlation Coefficient	.190*	357**	.798**	1.000	.279**	,382**	.315**	.162	.252**	056
	(Highest)	Sig. (2-tailed)	.026	.000	.000		,001	.000	.000	.059	.003	.518
		N	137	137	137	137	137	137	137	137	13 <u>7</u>	137
	Management education	Correlation Coefficient	.345**	084	.215*	.279**	1.000	.883**	.028	,104	.324**	.197*
	and training (Average)	Sig. (2-tailed)	.000	.329	.012	.001		.000	.743	.229	.000	.021
		N	. 137	137	137	137	137	137	137	137	137	137
	Management education	Correlation Coefficient	.477**	-,186*	.136	.382**	.883**	1.000	.008	,087	,316**	.119
	and training (Highest)	Sig. (2-tailed)	.000	,030	.114	.000	.000		.924	.311	.000	.165
		N	137	137	137	137	137	137	137	137	137	137
	Organisation	Correlation Coefficient	056	059	,411 **	.315**	.028	.008	1.000	.367**	.151	.055
	effectiveness	Sig. (2-tailed)	.518	.491	.000	.000	.743	.924	· .	.000	.078	.522
		N	137	137	137	137	137	137	137	137	137	137
	Objective fulfilment	Correlation Coefficient	058	-,086	.243**	.162	.104	.087	,367**	1.000	.223**	.016
		Sig. (2-tailed)	.500	.315	.004	.059	.229	.311	.000		.009	.848
		N	137	137	137	137	137	137	137	137	137	137
	Job satisfaction	Correlation Coefficient	.264**	082	.218*	.252**	,324**	.316**	.151	.223**	1.000	.168*
		Sig. (2-tailed)	.002	.339	.010	.003	.000	.000	.078	.009		.050
		N	137	137	137	137	137	137	137	137	137	137
	Central life interests	Correlation Coefficient	.018	039	.021	056	.197*	.119	.055	.016	.168*	1.000
		Sig. (2-tailed)	.831	.654	.810	,518	.021	.165	.522	,848	.050	
		N	137	137	137	137	137	137	137	137	137	137

^{*.} Correlation is significant at the .05 level (2-tailed).

^{**.} Correlation is significant at the .01 level (2-tailed).

Appendix 5

Aggregate correlations (Spearman) between education and training levels of Tasmanian top management teams and organisational performance (Teams n=20)

			Size	Location	Education and Training (Average)	Education and Training (Highest)	Management education and training (Average)	Management education and training (Highest)	Organisation effectiveness	Objective fulfilment	Job satisfaction	Central life interests
Spearman's rho	Size	Correlation Coefficient	1.000	191	-,340	154	.132	.266	443	259	.349	.012
		Sig. (2-tailed)	,	.420	.142	.516	.580	.256	.050	.270	.132	.961
		N	20	20	20	20	20	20	20	20	20	20
	Location	Correlation Coefficient	-,191	1.000	.082	069	.025	-,111	.203	-,134	323	.136
		Sig. (2-tailed)	.420		.730	.774	.915	.640	.390	.575	.165	,569
		N	20	20	20	20	20	20	20	20	20	20
	Education and Training	Correlation Coefficient	340	.082	1.000	.960*	.118	.104	.643**	.537*	.043	072
	(Average)	Sig. (2-tailed)	.142	.730	•	.000	.620	.661	.002	.015	.857	.764
		N	20	20	20	20	20	20	20	20	20	20
	Education and Training	Correlation Coefficient	-,154	- 069	.960**	1,000	.213	.260	.541*	.484*	.147	107
	(Highest)	Sig. (2-tailed)	.516	.774	.000		.366	,267	.014	.030	.536	.655
		N	20	20	20	20	20	20	20	20	20	20
	Management education	Correlation Coefficient	.132	.025	.118	.213	1.000	960*	084	-,205	.315	.284
	and training (Average)	Sig. (2-tailed)	.580	.915	.620	.366		,000	.724	.385	.176	.225
		N	20	20	20	20	20	20	20	20	20	20
	Management education	Correlation Coefficient	.266	111	.104	.260	.960*	1,000	192	218	.404	.204
	and training (Highest)	Sig. (2-tailed)	.256	.640	.661	.267	.000		.418	.357	.077	.389
		N	20	20	20	20	20	20	20	20	20	20
	Organisation	Correlation Coefficient	443	.203	.643"	.541*	084	-,192	1.000	.511*	537*	.030
	effectiveness	Sig. (2-tailed)	.050	.390	.002	.014	.724	.418		.021	.015	.900
		N ,	. 20	20	20	20	20	20	20	20	20	20
	Objective fulfilment	Correlation Coefficient	259	134	.537*	.484*	205	-,218	.511*	1,000	.078	365
	•	Sig. (2-tailed)	.270	.575	.015	.030	.385	357	.021		.744	.114
		N .	20	20	20	20	20	20	20	20	20	20
	Job satisfaction	Correlation Coefficient	.349	323	.043	.147	.315	.404	537*	.078	1,000	262
		Sig. (2-tailed)	.132	.165	.857	.536	.176	.077	.015	.744	1 .	.264
		N ,	20	20	20	20	20	20	20	20	20	20
	Central life interests	Correlation Coefficient	.012	.136	-,072	107	.284	.204	.030	-,365	262	1,000
		Sig. (2-tailed)	.961	.569	.764	.655	.225	,389	.900	.114	.264	
		N	20	20	20	20	1	20) 20	20	20	

^{**.} Correlation is significant at the .01 level (2-tailed).

[.] Correlation is significant at the .05 level (2-tailed).

Appendix 6

Aggregate correlations (Spearman) between education and training levels of Victorian top management teams and organisational performance (Teams n=117)

			Size	Location	Education and Training (Average)	Education and Training (Highest)	Management education and training (Average)	Management education and training (Highest)	Organisation effectiveness	Objective fulfilment	Job satisfaction	Central life interests
Spearman's rho	Size	Correlation Coefficient	1.000	.096	.042	.191*	.345**	.477**	.020	091	.253**	057
		Sig. (2-tailed)		.301	.650	.039	.000	.000	.827	.329	.006	.540
		Ņ	117	117	117	117	117	117	117	117	117	117
	Location	Correlation Coefficient	.096	1,000	208*	-,311°	.041	065	138	127	040	.063
		Sig. (2-tailed)	.301		.024	.001	.658	.488	.138	.173	.669	.500
		N	117	117	117	117	117	117	117	117	117	117
	Education and Training	Correlation Coefficient	.042	-,208°	1.000	.780**	.224*	.126	.386**	.191*	.234*	.065
	(Average)	Sig. (2-tailed)	.650	.024		.000	.015	.177	.000	.040	.011	.484
		N	117	117	117	117	117	117	117	117	117	117
	Education and Training	Correlation Coefficient	.191*	311**	.780**	1.000	.258**	.372**	.301**	.115	.250**	- 023
	(Highest)	Sig. (2-tailed)	.039	.001	.000		.005	.000	.001	.218	.006	.802
		N	117	117	117	117	117	117	117	117	117	117
	Management education	Correlation Coefficient	.345**	.041	.224*	.258**	1.000	.861**	.043	.106	.329**	.177
	and training (Average)	Sig. (2-tailed)	.000	.658	.015	.005		.000	.643	.256	.000	.056
		N	117	117	117	117	117	117	117_	<u>117</u>	117	117
	Management education	Correlation Coefficient	.477**	065	.126	.372**	.861**	1.000	.042	.115	.300**	.080
	and training (Highest)	Sig. (2-tailed)	.000	.488	.177	.000	.000		.654	.218	.001	.391
		N	117	117	117	117	117	117	117	117	117	117
	Organisation	Correlation Coefficient	.020	-, 138	.386**	.301**	.043	.042	1.000	.342**	.252**	.060
	effectiveness	Sig. (2-tailed)	.827	.138	.000	.001	.643	.654	_ :	.000	.006	.522
		<u>N</u>	117	117	117	117	117	117	117	117	117	117
	Objective fulfilment	Correlation Coefficient	091	- 127	,191*	.115	.106	.115	.342**	1,000	.211*	.041
		Sig. (2-tailed)	.329	.173	.040	.218	.256	.218	.000		.022	657
		N	117	117	117	117	117	117	117	117	117	117
	Job satisfaction	Correlation Coefficient	.253**	040	.234*	.250*	.329	.300**	.252**	.211*	1,000	.189*
		Sig. (2-tailed)	.006	.669	.011	.006	.000	.001	.006	.022		.041
		N	117	117	117	117	117	117	117	117	117	117
	Central life interests	Correlation Coefficient	057	.063	.065	023	.177	.080	.060	.041	.189*	1.000
		Sig. (2-tailed)	.540	.500	.484	.802	.056	.391	.522	.657	.041	
		N	117	117	117	117	117	117	117	1 <u>17</u>	117	117

^{*.} Correlation is significant at the .05 level (2-tailed).

[&]quot;. Correlation is significant at the .01 level (2-tailed).

Appendix 7 Summarised bivariate regression statistics for relationships between highest education and training levels of top management teams and measures of organisational performance

	R	R Square	the state of the s	Std. Error of the Estimate		df	Mean Square	F	Sig.	Unst. Coeff	Std. Error	St. Coeff	1	Sig.
Highest education and training and organisational effectiveness	.387	.149	.143	.5622	7.497	1	7.497	23.722	.000	.157	.032	.387	4.871	.000
Highest education and training and objective fulfilment	.129	.017	.009	.8061	1.493	1	1.493	2.297	.132	6.986E	.046	.129	1.516	.132
Highest education and training and job satisfaction	.248	.062	.055	.5098	2.304	1	2.304	8.866	.003	8.67E	.029	.248	2.978	.003
Highest education and training and central life interests	.046	.002	005	.5044	7.13E	1	7.13E	.280	.597	1.527E	.029	.046	.529	.597

Appendix 8 Summarised bivariate regression statistics for relationships between average education and training levels of top management teams and measures of organisational performance

	R	R Square	Adjusted R square		1996-991-99-99-99-99-99-99-99-99-99-99-99-99	df	Mean Square		Sig.	Unst. Coeff.	Std. Error	St. Coeff	t	Sig.
Average education and training and organisational effectiveness	.466	.217	.211	.5394	10.893	1	10.893	37.443	.000	.192	.031	.466	6.119	.000
Average education and training and objective fulfilment	.188	.035	.028	.7984	3.155	1	3.155	4.949	.028	.103	.046	.188	2.225	.028
Average education and training and job satisfaction	.237	.056	.049	.5113	2.096	1	2.096	8.020	.005	8.42E	.030	.237	2.832	.005
Average education and training and central life interests	.097	.009	.002	.5025	.321	1	.321	1.270	.262	3.29E	.029	.097	1.127	.262

Appendix 9 Summarised bivariate regression statistics for relationships between highest management-specific education and training levels of top management teams and measures of organisational performance

	R	R Square	Adjusted R square	Std. Error of the Estimate		df	Mean Square	F	Sig.	Unst. Coeff.	Std. Error	St. Coeff	ŧ	Sig.
Highest management education and training and organisational effectiveness	.021	.000	007	.6095	2.129E	1	2.129E	.057	.811	3.596E	.015	.021	.239	.811
Highest management education and training and objective fulfilment	.110	.012	.005	.8080	1.076	1	1.076	1.648	.201	2.557E	.020	.110	1.284	.201
Highest management education and training and job satisfaction	.338	.114	.107	.4954	4.259	1	4.259	17.357	.000	5.087E	.012	.338	4.166	.000
Highest management education and training and central life interests	.152	.023	.016	.4990	.798	1	.798	3.207	.076	2.20E	.012	.152	1.791	.076

Appendix 10 Summarised bivariate regression statistics for relationships between average management-specific education and training levels of top management teams and measures of organisational performance

	R	R Square	Court for Court of Court of Co.	Std: Error of the Estimate	\$1000000000000000000000000000000000000	df	Mean Square	F	Sig.	Unst Coeff.	Std Error	St. Coeff	t	Sig.
Average management education and training and organisational effectiveness	.105	.011	.004	.6062	.551	1	.551	1.5	.223	2.25E	.018	.105	1.225	.223
Average management education and training and objective fulfilment	.160	.025	.018	.8025	2.270	1	2.270	3.525	.063	4.56E	.024	.160	1.877	.063
Average management education and training and job satisfaction	.338	.114	.108	.4953	4.267	1	4.267	17.392	.000	6.25E	.015	.338	4.170	.000
Average management education and training and central life interests	.228	.052	.045	.4916	1.787	1	1.787	7.395	.007	4.04E	.015	.228	2.719	.007

Appendix 11

Aggregate correlations (Spearman) between education and training levels of top management teams and strategic planning (Teams n=137)

			Size	Location	Education and Training (Average)	Education and Training (Highest)	Management education and training (Average)	Management education and training (Highest)	Strategic planning	Internal orientation	External orientation	Functional integration	Use of techniques	Key personnel involveme <u>nt</u>
Spearman's mo	Size	Correlation Coefficient	1.000	-,069	.016	.190*	.345**	.477**	.150	014	.202*	-,030	.129	.207
		Sig. (2-tailed)		.425	.854	.026	.000	.000	.080	.872	.018	.729	.132	.015
		Ņ	137	137	137_	_ 137	137_	137	137	137	137	137	137	137
	Location	Correlation Coefficient	069	1.000	-,208*	357 **	084	186*	034	032	- 009	.043	-,038	-,102
		Sig. (2-tailed)	.425		.015	.000	.329	.030	.696	.708	.915	.617	.657	.235
		N	137	137	137_	137	197_	137	137	137	137	137	137	137
	Education and Training	Correlation Coefficient	.016	- 2081	1.000	.798**	.215*	.136	.051	.019	003	.073	.036	.100
	(Average)	Sig. (2-tailed)	.854	.015		.000	.012	.114	.550	,828,	.971	.395	,680	.247
		N	137	137	137	137	137	137	137	137	137	137	137	137
	Education and Training	Correlation Coefficient	.190°	357**	.798**	1.000	.279**	.382**	021	013	089	.029	005	.029
	(Highest)	Sig. (2-tailed)	.026	.000	.000	١.	.001	.000	.812	.885	.303	.741	.953	.735
		N	137	137	137	137	137	137	137	137	137	137	137	137
	Management education	Correlation Coefficient	.345**	084	.215	.279**	1,000	.883**	.072	.052	.112	027	.056	.073
	and training (Average)	Sig. (2-tailed)	.000	.329	.012	.001		.000	.402	.549	,193	.752	.517	.39
		N '	137	137	137	137	137	137	137	137	137	137	137	137
	Management education	Correlation Coefficient	.477**	186*	.136	.382**	.883**	1.000	.019	.038	.052	055	.026	.00
	and training (Highest)	Sig. (2-tailed)	.000	.030	.114	.000	.000		.825	.656	.549	.524	.762	.941
		N .	137	137	137	137	137	137	137	137	137	137	137	13
	Strategic planning	Correlation Coefficient	.150	034	.051	021	.072	.019	1,000	.528**	.897**	.773**	.774**	.723
		Sig. (2-tailed)	.080	.696	.550	.812	.402	.825		.000	.000	.000	.000	.000
		N	137	137	137_	137	137_	197	137	137	137	137	137	137
	Internal orientation	Correlation Coefficient	014	032	.019	013	.052	.038	.528**	1.000	.371**	.403**	.364**	.22:
		Sig. (2-tailed)	.872	.708	.828	.885	.549	.656	.000] .	.000	.000	.000	.00:
		N	137	137	137	137	137	137	137	137	137	137	137	13
	External orientation	Correlation Coefficient	.202*	009	-,003	089	.112	.052	.897**	.371**	1.000	.608**	.588**	.57
		Sig. (2-tailed)	.018	.915	.971	.303	.193	.549	.000	.000		.000	.000	.00
		N	137	137	137	137	137	137	137	137	137	137	137	13
	Functional integration	Correlation Coefficient	030	.043	.073	.029	027	-,055	.773**	.403**	.608**	1.000	.577**	.48
		Sig. (2-tailed)	.729	.617	.395	.741	.752	.524	.000	.000	.000		.000	.00
		<u>N</u>	137	137	137	137	137_	137	137	137	137	137	137	13
	Use of techniques	Correlation Coefficient	.129	038	.036	005	.056	.026	.774"	.364**	.588**	.577**	1.000	.43
		Sig. (2-tailed)	.132	.657	.680	.953	.517	.762	.000	.000	.000	.000		.00
		N	137	137	137	137	137_	137	137	137	137	137	137	13
	Key personnel	Correlation Coefficient	.207*	- 102	.100	.029	.073	.006	.723"	.223**	.572**	.487**	.430*	1.00
	involvement	Sig. (2-tailed)	.015	.235	.247	.735	.398	.942	.000	.009	.000	.000	.000	
		N	137	137	137	137	137	137	137	137	137	137	137	13

^{*.} Correlation is significant at the .05 level (2-tailed).

^{**.} Correlation is significant at the .01 level (2-tailed).

Appendix 12 Aggregate correlations (Spearman) between education and training levels of Tasmanian top management teams and strategic planning (Teams n=20)

			Size	Location	Education and Training (Average)	Education and Training (Highest)	Management education and training (Average)	Management education and training (Highest)	Strategic planning	Internal orientation	External orientation	Functional integration	Use of techniques	Key personnel involvement
Spearman's rho	Size	Correlation Coefficient	1,000	191	340	154	.132	.266	.126	065	.424	043	.323	.012
	•	Sig. (2-tailed)		.420	.142	.516	.580	.256	.598	.785	.062	.857	.165	,960
		N	20	20	20	20	20	20	20	20	20	20	20	20
	Location	Correlation Coefficient	-,191	1.000	.082	069	.025	-,111	049	.051	183	.091	.070	.203
		Sig. (2-tailed)	.420		.730	.774	.915	.640	.837	.831	.439	.704	.768	.392
		N	20	20	20	20	20	20	20	20	20	20	20	20
	Education and Training	Correlation Coefficient	340	.082	1.000	.960**	.118	.104	.034	.406	151	.113	.054	-,150
	(Average)	Sig. (2-tailed)	.142	.730		.000	.620	.661	.888	.076	.526	.634	.822	.529
		N	20	. 20	20	20	20	20	20	20	20	20	20	20
	Education and Training	Correlation Coefficient	154	069	.960**	1.000	.213	.260	.037	.397	086	.099	.036	-,177
	(Highest)	Sig. (2-tailed)	.516	.774	,000		.366	.267	.878	.083	.717	.678	.879	.455
		N	20	. 20	20	20	20	20	20	20	20	20	20	20
	Management education	Correlation Coefficient	.132	.025	.118	.213	1.000	.960**	.006	.170	148	.150	.025	224
	and training (Average)	Sig. (2-tailed)	.580	.915	.620	.366		.000	.981	.474	.534	.528	.916	.342
		N	20	. 20	20	20	20	20	20	[20	20	20	20	20_
	Management education	Correlation Coefficient	.266	111	.104	.260	.960*	1.000	.013	.168	064	.145	004	239
	and training (Highest)	Sig. (2-tailed)	.256	.640	.661	.267	.000	,	.956	.479	.787	.542	.986	.311
		N	20	20	20	20	20	20	20	20	20	20	20	20
	Strategic planning	Correlation Coefficient	.126	049	,034	.037	.006	.013	1.000	.490*	.780**	.861*	.814**	
		Sig. (2-tailed)	.598	.837	.888	.878	.981	.956		.028	.000	.000	.000	.013
		N	20	20	20	20	20	20	20	20_	20	20	20	20
	Internal orientation	Correlation Coefficient	065	.051	.406	.397	.170	.168	,490*	1,000	.175	.470*	.522*	.069
		Sig. (2-tailed)	.785	.831	.076	.083	.474	,479	.028	-	.459	.036	.018	.773
		N	20	. 20	20	20	20	20	20	20	20	20	. 20	20
	External orientation	Correlation Coefficient	.424	183	151	086	148	- 064	.780*	.175	1.000	.463*	.700*	
		Sig. (2-tailed)	.062	.439	.526	.717	.534	.787	.000	.459		.040	.001	.212
		N	20	20	20	20	20	20	20	20	20	20	20	20
	Functional integration	Correlation Coefficient	043	.091	.113	.099	.150	.145	.861*	.470*	.463*	1.000	.610°	
		Sig. (2-tailed)	.857	.704	,634	.678	.528	.542	,000	.036	.040] .	.004	.011
		N	20	. 20	20	20	20	20	20	20	20	20	20	20
	Use of techniques	Correlation Coefficient	.323	.070	.054	.036	.025	-,004	.814*	.522*	.700**	.610*	1.000	.234
		Sig. (2-tailed)	.165	.768	.822	.879	.916	.986	.000	.018	.001	.004	· ·	.322
	 	N	20	20	20	20	20	20_	20	20	20	20	20	20
	Key personnel	Correlation Coefficient	.012	.203	150	177	- 224	239	.546*	.069	.292	.556*	.234	1.000
	involvement	Sig. (2-tailed)	.960	.392	.529	,455	.342	,311	,013	.773	.212	.011	.322	
		N	20	20	20	20	20	20	20	20	20	20	20	20

^{**.} Correlation is significant at the .01 level (2-tailed).

^{*.} Correlation is significant at the .05 level (2-tailed).

Appendix 13 Aggregate correlations (Spearman) between education and training levels of Victorian top management teams and strategic planning (Teams n=117)

			Size	Location	Education and Training (Average)	Education and Training (Highest)	Management education and training (Average)	Management education and training (Highest)	Strategic planning	Internal orientation	External orientation	Functional coverage	Use of techniques	Key personnel involvement
Spearman's rho	Size	Correlation Coefficient	1.000	.096	.042	.191*	.345**	.477**	.135	027	.150	007	.081	.2201
		Sig. (2-tailed)		.301	.650	.039	.000	.000	.148	.772	.106	.943	.384	.017
		N	117	117	117	117	117	117	117	117	117	117	117	117
	Location	Correlation Coefficient	.096	1.000	208*	311**	.041	065	,029	.021	.082	.014	.054	048
		Sig. (2-tailed)	.301		.024	.001	.658	.488	.753	.823	.378	.885	.565	.605
		N	117	117	117	117	117	117	117	117	117	117	117	117
	Education and Training	Correlation Coefficient	.042	-,208*	1.000	.780**	.224*	.126	.044	045	.008	.081	.013	.138
	(Average)	Sig. (2-tailed)	.650	.024		.000	.015	.177	.639	.628	.933	.385	.890	.139
		N	117	. 117	117	117	117	117	117	117	117	117	117	117
	Education and Training	Correlation Coefficient	.191*	311**	.780**	1.000	.258**	.372**	050	078	116	.045	044	.041
	(Highest)	Sig. (2-talled)	.039	.001	.000		.005	.000	.595	.406	.211	.629	.636	.660
		N	117	117	117	117	117	117	117	117	117	117	117	117
	Management education	Correlation Coefficient	.345**	.041	.224*	.258**	1.000	.861**	.079	.018	,132	050	.038	.091
	and training (Average)	Sig. (2-tailed)	.000	.658	.015	.005		.000	.400	.850	.157	.589	.682	.331
		N	117	117	117	117	117	117	117	117	117	117	117	117
	Management education	Correlation Coefficient	.477**	065	.126	.372**	.861**	1,000	.006	.002	.036	074	.000	.001
	and training (Highest)	Sig. (2-tailed)	.000	.488	.177	.000	.000		.945	,981	.700	.428	.997	.990
		N	117	117	117	117	117	117	117	117	117	117	117	117
	Strategic planning	Correlation Coefficient	.135	.029	.044	-,050	.079	.006	1.000	.545**	.899**	.771*1	.768**	.755
		Sig. (2-tailed)	.148	.753	.639	.595	.400	.945		.000	.000	.000	.000	.000
		N	117	. 117	117	117	117	117	117	117	117	117	117	117
	Internal orientation	Correlation Coefficient	027	.021	045	078	.018	.002	.545*	1.000	.398**	.396**	.324**	.250
		Sig. (2-tailed)	.772	.823	.628	.406	.850	.981	.000	ł .	.000	.000	.000	.007
		N	117	117	117	117	117	117	117	117	117	117	117	117
	External orientation	Correlation Coefficient	.150	.082	.008	116	.132	.036	.899*	.398**	1.000	.637**	.567**	.613
		Sig. (2-tailed)	,106	.378	.933	.211	.157	.700	.000	.000		.000	.000	.000
		N	117	117	117	117	117	117	117	117	117	117	117	117
	Functional coverage	Correlation Coefficient	-,007	.014	.081	.045	050	074	.771*	.396**	.637**	1.000	.595**	.497
		Sig. (2-tailed)	.943	.885	.385	.629	.589	.428	.000	.000	.000		.000	.000
		N	117	117	117	117	117	117	117_	117	117	117	117	117
	Use of techniques	Correlation Coefficient	.081	.054	.013	044	.038	.000	.768*	,324**	.567**	.595**	1.000	.482
		Sig. (2-tailed)	.384	.565	.890	.636	.682	.997	.000	.000	.000	.000		.000
		N	117	117	117	117	117	117	117	117	117	117	117	117
	Key personnel	Correlation Coefficient	.220*	048	.138	.041	.091	.001	.755*	.250**	.613**	.497**	.482**	1.000
	involvement	Sig. (2-tailed)	.017	.605	.139	.660	.331	.990	.000	.007	.000	.000	.000	
		N	117	. 117	117	117	117	117	117	117	117	117	117	117

^{*.} Correlation is significant at the .05 level (2-tailed).

^{**.} Correlation is significant at the .01 level (2-tailed).

Appendix 14 Summarised bivariate regression statistics for relationships between highest education and training levels of top management teams and measures of strategic planning

	R	R Square	Adjusted R square		140000 10000 0000 0000 0000 0000	đf	Mean Square	F	Sig.	Unst. Coeff.	Std. Error	St. Coeff	t	Sig.
Highest education and training and internal orientation	.014	.000	007	.4724	5.68E	1	5.68E	.025	.873	4.31E	.027	.014	.160	.873
Highest education and training and external orientation	.102	.010	.003	.7572	.808	1	.808	1.409	.237	-5.13E	.043	102	-1.187	.237
Highest education and training and functional integration	.009	.000	007	.6686	5.22E	1	5.22E	.012	.914	-4.13E	.038	009	108	.914
Highest education and training and use of techniques	.010	.000	007	1.02	1.36E	1	1.36E	.013	.909	6.67E	.058	.010	.114	.909
Highest education and training and key personnel involvement	.029	.001	007	.8141	7.35E	1	7.35E	.111	.740	-1.55E	.047	029	333	.740

Appendix 15 Summarised bivariate regression statistics for relationships between average education and training levels of top management teams and measures of strategic planning

	R	R Square	3	Std. Error of the Estimate	Sum of Squares	df	Mean Square	F	Sig.	Unst. Coeff.	Std. Error	St. Coeff	t	Sig.
Average education and training and internal orientation	.017	.000	007	.4724	9.114E	1	9.114E	.041	.840	5.55E	.027	.017	.202	.840
Average education and training and external orientation	.050	.002	005	.7602	.195	1	.195	.338	.562	-2.6E	.044	050	582	.562
Average education and training and functional integration	.024	.001	007	.6684	3.560E	1	3.560E	.080	.778	1.10E	.039	.024	.282	.778
Average education and training and use of techniques	.031	.001	006	1.02	.135	1	.135	.130	.719	2.14E	.059	.031	.360	719
Average education and training and key personnel involvement	.005	.000	007	.8145	2.58E	1	2.58E	.004	.950	2.96E	.047	.005	.062	.950

Appendix 16 Summarised bivariate regression statistics for relationships between highest management-specific education and training levels of top management teams and measures of strategic planning

	R	R Square	Adjusted R square	Std. Error of the Estimate	Sum of Squares	df	Mean Square	F	Sig.	Unst. Coeff.	Std. Error	St. Coeff	t	Sig:
Highest management education and training and internal orientation	.045	.002	005	.4719	6.21E	1	6.21E	.279	.598	6.14E	.012	.045	.528	.598
Highest management education and training and external orientation	.061	.004	004	.7597	.287	1	.287	.498	.482	1.32E	.019	.061	.706	.482
Highest management education and training and functional integration	.036	.001	006	.6682	7.61E	1	7.61E	.171	.680	-6.80E	.016	036	413	.680
Highest management education and training and use of techniques	.070	.005	003	1.0180	.680	1	.680	.657	.419	2.033E	.025	.070	.810	.419
Highest management education and training and key personnel involvement	.040	.002	006	.8138	.143	1	.143	.216	.643	9.32E	.020	.040	.465	.643

Appendix 17 Summarised bivariate regression statistics for relationships between average management-specific education and training levels of top management teams and measures of strategic planning

	R	R Square	Adjusted R square	Std. Error of the Estimate	Sum of Squares	df	Mean Square	F	Sig.	Unst. Coeff.	Std. Error	St. Coeff	t	Sig.
Average management education and training and internal orientation	.049	.002	005	.4719	7.30E	1	7.30E	.328	.568	8.17E	.014	.049	.573	.568
Average management education and training and external orientation	.130	.017	.010	.7546	1.328	1	1.328	2.331	.129	3.48E	.023	.130	1.527	.129
Average management education and training and functional integration	.036	.001	006	.6681	7.954E	1	7.954E	.178	.674	8.53E	.020	.036	.422	.674
Average management education and training and use of techniques	.120	.014	.007	1.01	2.012	1	2.012	1.960	.164	4.29E	.031	.120	1.4	.164
Average management education and training and key personnel involvement	.131	.017	.010	.8075	1.526	1	1.526	2.340	.128	3.74E	.024	.131	1.530	.128

Appendix 18

Aggregate correlations (Spearman) between strategic planning and organisational performance (Teams n=137)

			Size	Location	Strategic planning	internal orientation	External orientation	Functional integration	Use of techniques	Key personnel Involvement	Organisation effectiveness	Objective fuffilment	Job satisfaction	Central life interests
Spearman's rho	Size	Correlation Coefficient	1,000	069	.150	014	.202*	030	.129	.207*	056	058	.264"	.018
		Sig. (2-tailed)		.425	.080	.872	.018	.729	.132	.015	.518	.500	.002	.83
		N	137	137	137	137	137	137	137	137	137	137	137	13
	Location	Correlation Coefficient	069	1.000	034	032	-,009	,043	038	102	059	086	082	03:
		Sig. (2-tailed)	.425		.696	.708	,915	.617	.657	.235	.491	.315	.339	.65
		N	137	137	137	137	137	137	137	137	137	137	137	13
	Strategic planning	Correlation Coefficient	,150	034	1.000	.528**	.897**	.773**	.774**	.723**	.092	.274**	.117	.17
		Sig. (2-tailed)	.080	696	,	.000	.000	,000,	000	.000	.284	.001	.173	.04
		N	137	. 137	137	137	137	137	137	137	137	137	137	13
	Internal orientation	Correlation Coefficient	014	032	.528**	1,000	.371**	.403**	.364**	.223**	.043	.099	,046	.06
		Sig. (2-tailed)	.872	.708	.000		.000	.000	.000	.009	.615	.249	.591	.44
		N	137	137	137	137	137	137	137	137	137	137	137	13
	External orientation	Correlation Coefficient	.202*	009	.897**	.371**	1.000	.608**	.588**	.572**	.058	.275**	.129	.22
		Sig. (2-tailed)	.018	.915	.000	,000		,000,	.000	.000	.500	.001	.132	.00.
		N	137	137	137	137	137	137	137	137	137	137	137	13
	Functional integration	Correlation Coefficient	030	.043	.773**	.403**	.608**	1.000	.577**	.487**	.106	.290**	.147	.10
		Sig. (2-tailed)	.729	.617	.000	.000	.000		.000	.000	.216	.001	.087	.20
		N	137	137	137	137	137	137	137	137	137	137	137	13
	Use of techniques	Correlation Coefficient	.129	038	.774**	.364**	.588**	.577**	1,000	.430**	.049	.088	.096	.15
		Sig. (2-tailed)	.132	657	.000	.000	.000	.000	,	.000	.568	.308	.262	.07
		N	197	. 137	137	137	137	137	137	137	137	137	137	13
	Key personnel	Correlation Coefficient	.207*	+.102	.723**	.223**	.572**	.487**	.430**	1.000	.062	.244**	.044	.09
	invotvement	Sig. (2-tailed)	.015	.235	,000	,009	.000	.000	.000		.471	.004	.811	.27
		N	137	137	137	137	137	137	137	137	137	137	137	13
	Organisation	Correlation Coefficient	066	069	.092	.043	.058	.106	.049	.062	1.000	.367**	.151	.05
	effectiveness	Sig. (2-tailed)	.518	.491	.284	.615	.500	.216	.566	.471		.900	.078	.52
		N	137	137	137	137	137	137	137	137	137	137	137	13
	Objective fulfilment	Correlation Coefficient	058	086	.274**	.099	.275**	.290**	.088	.244**	.367**	1.000	.223**	.01
		Sig. (2-tailed)	.500	.315	.001	.249	.001	.001	.308	.004	.000	,	,009	.84
		N	137	137	137	137	137	137	137	137	137	137_	137	13
	Job satisfaction	Correlation Coefficient	.264**	082	.117	.046	.129	. 147	.096	.044	.151	.223**	1.000	.16
		Sig. (2-tailed)	.002	.339	.173	.591	.132	.087	.262	.611	.078	.009	.	.05
		Ν .	137	137	137	137	137	137	137	137	137	137	137	19
	Central life Interests	Correlation Coefficient	.018	039	.174*	.066	.229**	.109	.154	.093	.055	.018	.168*	1.00
		Sig. (2-tailed)	.831	.654	.042	.446	.007	.204	,073	.279	.522	.848	.050	
		N	137	137	137	137	137	137	137	137	137	137	137	13

[.] Correlation is significant at the .05 level (2-tailed).

^{**.} Correlation is significant at the .01 level (2-tailed).

Appendix 19 Aggregate correlations (Spearman) between strategic planning and organisational performance in Tasmanian organisations (Teams n=20)

			Size	Location	Strategic planning	Internal orientation	External orientation	Functional integration	Use of techniques	Key personnel involvement	Organisation effectiveness	Objective fulfilment	Job satisfaction	Central life interests
Spearman's rho	Size	Correlation Coefficient	1.000	191	.126	065	.424	043	.323	.012	443	- 259	,349	.012
		Sig. (2-tailed)		.420	.598	,785	.062	.857	.165	.960	.050	.270	.132	.961
		N	20	20	20	20	20	20	20	20	20	20	20	20
	Location	Correlation Coefficient	191	1,000	049	.051	183	.091	.070	.203	.203	134	323	.136
		Sig. (2-tailed)	.420		.837	.831	.439	.704	.768	.392	.390	.575	.165	.569
		N	20	20	20	20	20	20	20	20	20	20	20	20
	Strategic planning	Correlation Coefficient	.126	049	1,000	.490*	.780**	,861**	.814**	.546*	045	.365	.223	181
		Sig. (2-tailed)	.598	.837		.028	.000	.000	.000	.013	.850	.114	.344	.444
		N	20	20	20	20	20	20	20	20	20	20	20	20
	Internal orientation	Correlation Coefficient	065	.051	.490*	1.000	.175	.470°	.522*	.069	.015	.052	.281	.313
		Stg. (2-tailed)	.785	.831	.028		.459	.036	.018	.773	.950	.828	.231	.179
		N	20	20	20	20	20	20	20	20	20	20	20	20
	External orientation	Correlation Coefficient	.424	183	.780**	.175	1.000	.463*	.700**	.292	-,302	.129	.270	301
		Sig. (2-tailed)	.062	.439	.000	.459		.040	.001	.212	,196	,587	.250	.197
		N	20	20	20	20	20	20	20	20	20	20	20	20
	Functional integration	Correlation Coefficient	043	.091	.861**	.470*	.463°	1.000	.610**	.556*	.040	,419	,233	142
		Sig. (2-tailed)	.857	.704	.000	.036	.040		.004	.011	.866	.068	.322	.552
		N	20	20	20	20	20	20	20	20	20	20	20	20
	Use of techniques	Correlation Coefficient	.323	.070	.814**	.522*	,700**	.610**	1.000	.234	116	.168	.147	.060
		Sig. (2-talled)	.165	.768	.000	.018	,001	.004		.322	.628	.484	.536	.801
		N	20	20	20	20	20	20	20	20	20	20	20	20
	Key personnel	Correlation Coefficient	.012	.203	.546*	.069	.292	.556*	.234	1.000	.151	.364	133	111
	involvement	Sig. (2-tailed)	.960	.392	,013	,773	.212	.011	.322		.524	.114	.578	.642
		N	20	20	20	20	20	20	20	20	20	20	20	20
	Organisation	Correlation Coefficient	-,443	,203	-,045	.015	-,302	.040	-,116	.151	1.000	.511°	537°	.030
	effectiveness	Sig. (2-tailed)	.050	.390	.850	.950	.196	.868	.628	.524		.021	,015	.900
		N	20	20	20	20	20	20	20	20	20	20	20	20
	Objective fulfilment	Correlation Coefficient	-,259	134	.365	.052	.129	.418	.166	,364	.511*	1.000	.078	36
		Sig. (2-tailed)	.270	.575	.114	.828	.587	.066	.484	,114	.021	l .	.744	.114
		N	20	20	20	20	20	20	20	20	20	20	20	20
	Job satisfaction	Correlation Coefficient	,349	323	.223	.281	.270	.233	.147	-,133	+,537°	.078	1.000	262
		Sig. (2-talled)	,132	.165	.344	.231	.250	,322	,536	.578	.015	.744		.264
		N	20	20	20	20	20	20	20	20	20	20	20	20
	Central life Interests	Correlation Coefficient	.012	.136	181	,313	-,301	142	.060	-,111	.030	365	262	1,00
		Sig. (2-tailed)	.961	.569	.444	.179	.197	.552	.801	.642	,900	.114	.264	ļ
		N ,	20	20	20	20	20	20	20	20	20	20	1 20) 2x

^{*.} Correlation is significant at the .05 level (2-tailed).

^{**.} Correlation is significant at the .01 fevel (2-tailed).

Appendix 20

Aggregate correlations (Spearman) between strategic planning and organisational performance in Victorian organisations (Teams n=117)

			Size	Location	Strategic planning	Internal orientation	External orientation	Functional coverage	Use of techniques	Key personnel involvement	Organisation effectiveness	Objective fulfilment	Job satisfaction	Central life interests
Spearman's rho	Size	Correlation Coefficient	1.000	.096	.135	027	.150	-,007	.081	.220*	.020	091	.253**	057
		Sig. (2-tailed)	,	.301	.148	.772	.106	.843	.384	.017	.827	.329	.006	.540
		N	117	_117	117	117	117	117	117	117	117	117	117	117
	Location	Correlation Coefficient	.096	1.000	.029	.021	082	.014	.054	048	138	127	040	.063
		Sig. (2-tailed)	.301		.753	.823	.378	.885	.565	.605	.138	.173	.669	.500
		N	117	117	117	117	117	117	117	117	117	117	117	117
	Strategic planning	Correlation Coefficient	.135	.029	1,000	.545**	.899**	.771**	.768**	.755**	.124	.188*	.090	,194*
		Sig. (2-tailed)	.148	.753		.000	.000	.000	.000	.000	.182	.043	.332	.036 ٰ
		N	117	117	117	117	117	117	117	117	117_	117	117	117
	Internal orientation	Correlation Coefficient	027	.021	.545**	1.000	,398**	.396**	.324**	.250**	.053	.048	002	.037
		Sig. (2-tailed)	.772	.823	.000		.000	.000	.000	.007	.573	.605	.981	.692
		N	117	117	117	117	117	117	117	117	117	117	117	117
	External orientation	Correlation Coefficient	.150	.082	.899**	.398*	1,000	.637**	.567**	.613**	.132	.232*	.081	.258**
		Sig. (2-tailed)	.106	.378	.000	.000		.000	.000	.000	.155	.012	.384	.005
		N	117	117	117	117	117	117	117	117	117_	117	117	117
	Functional coverage	Correlation Coefficient	007	.014	.771**	.396*	,637**	1.000	.595**	.497**	.114	.180	.136	.138
		Sig. (2-tailed)	.943	.885	.000	.000	.000	,	.000	.000	.220	.052	.142	.138
		N	117	117	117	117	117	117	117	117	117	117	117	117
	Use of techniques	Correlation Coefficient	.081	.054	.768**	.324**	.567**	.595**	1.000	.482**	.085	.024	.082	.171
		Sig. (2-tailed)	.384	.565	.000	.000	.000	.000		.000	.360	.798	.380	.066
		N	117	117	117	117	117	117	117	117	117	117	117	117
	Key personnel	Correlation Coefficient	.220*	- 048	.755**	.250**	613**	.497**	.482**	1.000	.051	.154	.068	.071
	involvement	Sig. (2-tailed)	.017	.605	.000	.007	.000	.000	.000	١.	.582	.097	.464	.450
		N	117	117	117	117	117	117	117	117	117	117	117	117
	Organisation	Correlation Coefficient	.020	138	.124	.053	.132	.114	.085	.051	1.000	.342**	.252**	.060
	effectiveness	Sig. (2-tailed)	.827	.138	.182	.573	.155	.220	.360	.582	İ .	.000	.006	.522
		N	117	117	117	117	117	117	117	117	117	117	117	117
	Objective fulfilment	Correlation Coefficient	091	127	.188*	.048	.232*	.180	.024	.154	.342**	1.000	.211*	.041
	•	Sig. (2-tailed)	.329	.173	.043	.605	012	.052	.798	,097	.000	l .	022	.657
		N	117	117	117	117	117	117	117	117	117	117	117	117
	Job satisfaction	Correlation Coefficient	.253*	040	.090	002	.081	.136	.082	.068	.252**	.211*	1.000	.189*
		Sig. (2-tailed)	.006	.669	.332	.981	.384	.142	.380	.464	.006	.022		.041
		N	117	117	117	117	117	117	117	117	117	117	117	117
	Central life interests	Correlation Coefficient	-,057	.063	.194*	.037	,258**	.138	.171	.071	.060	.041	.189*	1.000
		Sig. (2-tailed)	.540	.500	.036	.692	.005	.138	.066	.450	,522	.657	.041	
		N ,	117	117	117	117	117	117	117	117	117	117	117	117

^{*} Correlation is significant at the .05 level (2-tailed).

^{**} Correlation is significant at the .01 level (2-tailed).

Appendices

Appendix 21 Summarised bivariate regression statistics for relationships between strategic planning and organisational performance

	R	R Square		Std. Error of	Sum of	df	Mean	F		Unst.	Std.	St. Coeff	2600000000	Sig
	ι,	K Square	Adjusted			, cu	0.0000000000000000000000000000000000000		Sig.		2550 0550 0500 0500 0500	St. Coen	t	org.
			R square	the Estimate	Squares	300000	Square			Coeff.	Error		30/300.000	
Internal orientation and organisational	.027	.001	007	.6094	3.574E	١.	2.5740	000	.757	3.44E	,,,	.027	.310	.757
effectiveness	1.027	.001	007	.6094	3.374E	1	3.574E	.096	./5/) 3.44E	.111	.027	.310	./37
Internal orientation and objective	.078	.006	001	.8105	.540	1	.540	.822	.366	.134	.148	.078	.906	.366
fulfilment	.078	.000	001	.0103	.540	1	.540	.022	.500	1 .1.54	1.140	.078	.500	.500
Internal orientation and job satisfaction	.061	.004	004	.5253	.137	1	.137	.496	.482	6.74E	.096	.061	.704	.482
Internal orientation and central life	.061	,004	004	.5039	.128	1	.128	.504	.479	6.52E	.092	.061	.710	.479
interests	.551	1001	1.001	.5057	1120	1	1.120	.504	,	0.522	.052	.001		1
External orientation and organisational	.114	.013	.006	.6056	.652	1	.652	1.779	.185	9.13E	.068	.114	1.334	.185
effectiveness														
External orientation and objective	.185	.034	.027	.7990	3.038	1	3.038	4.759	.031	.197	.090	.185	~2.181	.031
fulfilment							L.			1		1		
External orientation and job satisfaction	.140	.020	.012	.5211	.733	1	.733	2.700	.103	9.68E	.059	.140	1.643	.103
External orientation and central life	.253	.064	.057	.4885	2.199	1	2.199	9.218	.003	.168	.055	.253	3.036	.033
interests										L				
Functional integration and organisational	.135	.018	.011	.6040	.910	1	.910	2.493	.117	.123	.078	.135	1.579	.117
effectiveness						1								
Functional integration and objective	.206	.042	.035	.7956	3.769	1	3.769	5.955	.016	.250	.102	.206	2.440	.016
fulfilment		ļ				.1								
Functional integration and job satisfaction	.138	.019	.012	.5212	.717	1	.717	2.640	.107	.109	.067	.138	1.625	.107
Functional integration and central life	.152	.023	.016	.4990	.798	1	.798	3.203	.076	.115	.064	.152	1.790	.076
interests								ļ <u></u>			ļ			
Use of techniques integration and	.091	.008	.001	.6070	.417	1	.417	1.132	.289	5.45E	.051	.091	1.064	.289
organisational effectiveness							<u> </u>							
Use of techniques and objective fulfilment	.023	.001	007	.8127	4.671E	1	4.671E	.071	.791	1.82E	.069	.023	.266	.791
Use of techniques and job satisfaction	.126	.016	.009	.5221	.590	1	.590	2.166	.143	6.48E	.044	.126	1.472	.143
Use of techniques and central life interests	.170	.029	.022	.4975	.995	1	.995	4.018	.047	8.41E	.042	.170	2.005	.047
Key personnel involvement and	.061	.004	004	.6085	.185	1	.185	.500	.481	4.55E	.064	.061	.707	.481
organisational effectiveness	160	001	010		0.001	 			050	1	225	1.50	1.000	050
Key personnel involvement and objective fulfilment	.162	.026	.019	.8022	2.331	1	2.331	3.622	.059	.161	.085	.162	1.903	.059
Key personnel involvement and job	.062	.044	004	.5253	.142	1	.142	.513	.475	9.98E	.056	.062	.717	.475
satisfaction							1							
Key personnel involvement and central life	.140	.020	012	.4999	.672	1	.672	2.687	.103	8.66E	.053	.140	1.639	.103
interests	1.				<u></u>					<u> </u>	<u></u>			