Appendix E Maintenance Staff Interviews- Primary Error Attribution Themes

	Primary Error		
Dialogue	Attributions		
so people tend do rush it, they don't concentrate on their task or	Attributions	_	
they don't observe	time pressure	Time	Organisational Environment
they don't observe	Time present	ค	ga
the guys are pushed to get the job done, you know they are more		P	3
concerned about getting the aircraft serviceable then safety	Time pressure	es	S
I felt that he was overlooking the safety options in favour of getting	The process of	Pressures	ati
the aircraft out and not considering all the people around that were		₹	0
affected by his actions	Time pressure	Š	าล
again I feel they are too focused on getting the job doneand they		1	
tend to discard all thesome of the safety aspects	time pressure		15
it is a fact throughout this sort of industry where time is a problem	·	1	≥.
for both	time pressure		3
I will see it in the manager has no time for the investigation	Time pressure	1	Ĭ
biggest ones is we don't have the time and we don't have the		1	3
proper education	time pressure		<u> </u>
sometimes the job must be done, that's it, its simple. We got, now		1	=
the aircraft must fly, its money for the company, you know what the			
cost is if these things doesn't fly.	time pressure		
I would say time, that there is not enough time, and the guys are		1	
quite pressed to get the job done	time pressure		
it was caused because of a lack of time, because we were in a			
rush	time pressures		
he pulled the isolation pin out, then obviously the flaps extended			
and damaged the engines	time pressures		
if you have time to go to the locker to pick it up, now they push you			
for time, now what the guys do is to just throw the chemicals there			
and tell you now I feel like heaven and they'll laugh about it	time pressures		
you don't have time to go to the store, sometimes you work outside			
here, the store is that side and you don't have a vehicle	time pressures		
the times that I went on top of the wing, I was never pressed for			
time, it is easier to get the stand and get on top there, and there			
wasn't even the feeling of trying to impress anybody	time pressure		
no time to have it vented and bad planning	time pressures		
those people they are in a hurry to finish	time pressure		
sometimes you haven't got the time because you are	l		
pressurised	time pressure		
he doesn't care because the team leader or whoever is standing	4:		
there right behind him and he is pressed for time	time pressure		
we loading content every month and it is between six and seven	time a name consider to the alles		
hours	time consuming tasks		J

	Primary Error	
Dialogue	Attributions	
I also feel that people don't really communicate to say what	staff don't talk about their	
theyto a psychiatrist or some kind of	issues to a counsellor	Lack
		7~
a counsellorja. Somebody in that sort of position where they	staff don't talk about their	으
might go and discuss problems and try to come out with a solution	issues to a counsellor	၂၇၂
I told my team leader that the company must get a psychologist to		Counselling
come here say three times a year, to just come and have a chat and		ารเ
see what the guys are thinking	counselling not available	ַ ≝ ו
what I'm saying is that he must come here and take a few at a		<u>`</u>
time, and just speak to them, if you don't have anything to say you		
can leave	counselling not available	75
the men will not go to psychologists and say listen, I got this		Outlet
stressing me out. Men will not do that. That's how we are	counselling not available	」 ≍
I think that bloke he got some problem at home, he keeps it to	lack of outlet to deal with	
himself	domestic problems	\perp
		ङ
even if in private life you got trouble at home, the environment just		Stress
makes it more stressful and stressful and some guys lose it	stress	SS
stress in this place, what happens is some of the people because		
of the work that we do, you go home every night and there is 700		and
peoples lives you signed for and it does have some amount of stress		8
on you	stress of responsibility	Workload
stress can cause that	stress	조
that going to make my workload more, so in essence I'm not going		Oa
to get my work done and that's going to cause delays	increased workload	直
I'm just going to do the five that I used to do safely, and I'll leave		
the other five for somebody else to do	working safely	-l l
that really is long time to work sometimes twelve hours, and then	l	
you get six aircraft a day and that is really a lot of work to do	long hours	4
that really is long time to work sometimes twelve hours, and then	l	
you get six aircraft a day and that is really a lot of work to do	heavy workload	-
if they had more people available to work on the engine, and that		
they levelled out the hours so that people can have a safe amount of	l	
work	work overload	-
those people that was running around doing ten hours work in five		
hours, he's going to be the one that is going to get a hearing	commitment to meet	
because of an error or because of a mistake he has made	unreasonable deadlines	-
we come her at six and we leave her at six the next night, and the		
guys didn't even have a cold drink or something to eat, that's a long		
time, but they will rather take an hour or half an hour extra to do the		
job better than sitting and taking a brotjiethe guys on a high level, they also put a lot of pressure here	possible effects of fatigue	↓
the annual and a binde layed the sylvale and a late of my account bases	management pressure	1 1

	Primary Error	
Dialogue	Attributions	
the opportunities in this place are very little, there are very little	lack of career growth	<u></u>
opportunities	opportunities	Lack
some of those people are forced to be the way they are to get	lack of career growth	
promotions in this place	opportunities	9
he got his full certification, why must he still know more. The more	lack of reward for enhancing	Career
you know here, the more work you do, and you get nothing for it	qualifications and expertise	<u>8</u>
so he said, why must I go for the 400 and the 600 airbus, so that		
the team leader can sit on his ass and he must do he's job, his rights.		Growth
He's not interested anymore. I did the 400 avionics course, it is 14		Š
weeks, they did the 400 course IFE, two days, and he get the same	lack of reward for enhancing	=
pay	qualifications and expertise	
every time he turns around it would knock against the bulk head or	Safety equipment is	ပ္ပ
something	cumbersome	Safety
come people say that the safety shoes are not comfortable, you	safety equipment	ΨŲ
get a lot of people that say it hurts their feet once again	uncomfortable	ш
the hearing equipment they say hurts their ears and it is really not	safety equipment	년
a problem for me	uncomfortable	
but its dirty, you don't want to use it	hygiene factors] []
somebody else has used it, then you want to replace the		en l
respirator	hygiene factors	
on a winters day if you put that thing on, just now it is misted up		quipment Design
again and you can't seesome are sweating all over the thing	equipment hinders sight	<u>G</u>
but you see it is a hassle, you have to put the vacuum anchor on	perceived inconvenience of	
top of the wing	safety	and
tell him give me a bucket of trike, then the store now, they must	January	1 1
know what we going to give him, gloves, we got to give him a	safety equipment not issued	6
respirator, we got to give him rags, altogether	as standard with chemicals	<u>g</u> .
mine is broken, it doesn't have the glass, it fell out. It doesn't have		Logistics
the things that goes around the ears is out. Every year if they say	equipment not replaced as	ပ္သ
right, it is time for new safety goggles everybody	standard regulation	
, , , ,	Ĭ	1
	replacement safety	
you can't just go there and say, ok, I want personal safety goggles	equipment must be ordered,	
now to keep in my box. They don't have it readily available.	not readily available	

Dialogue	Primary Error Attributions	
I don't think they take accountability, they think they'll be victimised	fear of victimisation or	S
or disciplined if they report it, you've had instances	disciplinary proceedings	ho
Taking you to the hearing that's why people are afraid to report it	fear of disciplinary action	Shortcomings
you got a guy that's reported it and they say look, you reported it	fear of victimisation or	3
you in trouble, so they'd rather keep quiet	disciplinary proceedings	<u>`</u>
its not worth for me to complain because I'm only one year, here now	lack of confidential and anonymous measures to complain	⊒.
they not happy, but then what can they do. You see its his word, if he wants a smoke break, it's a smoke break	lack of confidential and anonymous measures to complain	Disciplinary
no problem I'll fix it and at the end of the day nothing happens and it's a problem	shortcomings in disciplinary process	
must be welcomed by the higher management to go and complain and to go and speak therethe rules of the company says that you must work and then after complain	no direct line of communication to complain work now complain later philosophy	Process
supervisors know if they don't bring it you have to do the work	work now complain later philosophy	
usually follow up this complains but at the end of the day nothing		
we getthe safety rep they are talking to those guys but a person just	complaints lead nowhere	
	inadaguata canatianing	na l
leave now and say haai you see time is up I'm just going now	inadequate sanctioning	ᅙ
we do report it lets say we report it today and um we make the way the following morning after wards people they are using that stand	inadequate sanctioning for violations	Inadequate
no harsh punishment for them	inadequate punishment	ਰਿ
But if there can be a strong punishment I think people can obey	madequate parileriment	S
those rules	inadequate punishment	anc
no problem I'll fix it and at the end of the day nothing happens and it's a problem	inadequate sanctioning measures	Sanctioning
you must see how we must do it, you take the thing on the table in the tea room	lack of proper workspaces	Workspace
we take the whole steering wheel off, we put it on our tea room table, that I already know, we work right here, now	Lack of proper workspaces	space

	Primary Error		
Dialogue	Attributions		
then you have to go and write down things again	long procedures	ס	1
but it is something different to have to go there and write ten	long procedure	Processes	
different requests for the store man	long procedures	Ce	
I promise you, I've been to Germany, Lufthansa. I've been there,	Company processes out of	SS	
those people will not work the way we work here	date	ės	
to get that thing from the store is going to be a big hassle, and you			
need air for it if I am not mistaken	hassle to order equipment	and	
if you get on top of the engine in the first place, I don't think you			
need a vacuum anchor there, if you can only have a lekker high	some rules seen as	Procedures	
stand, then you can just sit on the engine and work there	irrelevant by staff	င္ပ	
you don't want to go through the hassle to get all the equipment	hassle to get equipment	du	
ready	ready	I re	
no. if it was there and on top of the wing already, id put it on. Now I		Ś	
have to go get it and put it on myself	ready		
	tedious process to order		
maybe it doesn't go to the stores to order that equipment	equipment		
	Processes not adequate to		
if you come to a store, the store man can't tell you who got that	keep track of tools and		
ladder, so what happens now	equipment location	1	
the people are afraid to report it because if you report it you are			
suppose to write a report to the manager why they are damage the			
aircraftwe switch the thing off, or we reset it, or we download it, and then i	avoidance of paperwork	-	-
is perfect again, but they haven't got the patience because there is	passengers not patient with	بو	
people who get what they said	technology	SS	
we switch the thing off, or we reset it, or we download it, and then it	t technology	en	
is perfect again, but they haven't got the patience because there is	passengers not techno	Passengers	
people who get what they said	savvy	SIG	
got mat they balan	l		_
if you have a clean working environment I think you" be a whole lot	1		Ш
happier, instead of coming to a scrappy garage where things are	poor aesthetic work	ng	3
lying all over the place	environment	Unpleasant Aesth	Employee Moti
		as	9
first of all the tea room we are in at the moment must be fixed up. I		an	e e
don't know, if you want to have a cup of tea and sitting on a chair	uncomfortable aesthetic	ıt /	<u> </u>
where the sponges are coming out, its not all that comfortable	environment	é	
		Sŧ	알
		li:	<u>#</u>
the canteen that we have here is not all that clean, the food is not		8	vation
that good and their other thing is they are not open all the time, they	uncomfortable aesthetic	or Or	
work hours that suits themselves not the guys that work shifts	environment	<u>~</u>	
I've been that tea room now for the last fifteen years, it's a			
disgrace, you must look at the chairs we got there, it is a disgrace,		≦.	
can you believe it, he doesn't even want to spend money for the	aesthetic work environment	etic Work Environment	
trimmer	not pleasant and desirable	1 🛱	
		<u>e</u> r	
		≓	
because people that come from overseas come here, like the	1.		
Lufthansa blokes, when they say they come to my tea room they say	Aesthetic work environment		
yessis an, what is this. Now that is bad!	is not desirable or pleasant	1	1 1

	Primary Error	
Dialogue	Attributions	
because its changed, the blacks think the whites must pick it up	Attributions	0
now, that is what is happening	racial attitudes	Class
The state of the s		SS
I've been to his house now, but other white people, they don't want		and
to talk to him, but he is a friend. You will see some of these blokes		p
that you will interview, how they are, there's plenty of them I tell you.	Racism and racist attitudes	ᇒᅵ
if you talk to the blacks now, you see how many rubbish bags you see at the side of the road, they too lazy to keep it at their place or they missed it, and now bump it at another place. They say its alright, it creates work for others, that's their mentality now	racial beliefs and attitudes employee class attitudes to	Race Issues
he'll tell you shit. He'll tell you that your job is nothing	each other	
Race issues is always there you knowif I can go to the toilet you	class issues between the	
find that the mechanic already took the stand	mechanics and cleaners	
usually they are the mechanics and the mechanics are usually wise you know	role modelling of higher class trades	
wise you know	class trades	(0
now they starting to try and fire us next year. Now the union works with the managers here, now 350 people resigned from my union and went to this other union.	impending retrenchments	Shifts and
I don't know if you heard about them, they will not change our shifts, especially the shift where	company decision to change shifts	Retrenchments
there is things now in the company about they want to change our		🛱
shifts to a different thing and 90 percent of the people doesn't want	company decision to change	ne
to work that, so that can contribute to	shifts	멽
now they starting to try and fire us next year. Now the union works with the managers here, now 350 people resigned from my union and went to this other union.	dissatisfaction with union	
I would say that the company, that the managers must thank the people more often that is another thing	workers not recognised for efforts	Rec
if the aircraft is out on time, you will never, ever, hear a manager come talk to us and say thank you for doing your work	workers not recognised for efforts	Recognition
especially from a manager or a boss, that is one thing I think must happen here	workers not recognised for efforts	
they don't get acknowledgement for what they do	lack of recognition	and
you not going to be rewarded for anything you put yourself into	lack of recognition	Reward
he is so fed up because of this qualifications and same pay, it's the same about a trimmer, what must he learn, he gets the same payyou see if a trimmer talk to you, he says he studied also, he can also give you maybe a kuk story	Beliefs about relationship between trade and salary Beliefs about relationship between trade and salary	ard

	Drimary Error		
	Primary Error		
Dialogue	Attributions		
that we have been doing it for twenty years, why should we change		Old	Ш
now	Old habits	<u>d</u>	Employee Culture
I don't think that people realise that times change, technology		Habits and Way of Work	2
changes, and that the new equipment we have now is more		<u>b</u>	Vo
hazardous than the old equipment	Old Habits	ts	e e
processes that have changed now and might effect them		<u>a</u>	9
differently to what they have been currently exposed to	Old Habits	b	15
maybe those older people, when they started working there was no		5	=
safety cause nothing and if you start to tell a person about safety	resistance to changing rules	/a _y	
while he got thirty years working here it is quite difficult for him to	regarding safety due to	0	O,
understand	experience) f	
	resistance to change habits	Š	
they say haai I got 20 years smoking inside hear in this kitchen you	in accordance with new rules	웃	
see	and laws		
you know he hasn't got time for this, or he's showing around		Z	1
obviously to get the job done, or he just doesn't give damn	Don't care attitudes	eg	
he still got an arrogant attitude to safety and all that and that they		at	
are more focused on the work	Negative attitudes to safety	Negative	
I will not say that they'll compromise on their maintenance but		e /	
maybe on other aspects they might, like there is a puddle of oil lying		≟	
there and instead of just cleaning it up they'll say stuff it	Don't care attitudes	₹	
so then people don't focus or they are irritated and they don't want		Attitudes	
to perform what they should, I think that might give a don't care		es	
attitude	Negative Employee attitudes		
whether it's arrogance or they don't care or its too time consuming			
to fetch equipment, whatever the case	Attitudes		
I think if you change a negative attitude to a positive attitude, of	negative attitudes impact on		
course it will improve safety conditions	safety		
that a lot of people don't look after things like that to me, that			
impacts on the organisations profitability and safety and of course			
quality of maintenance	don't care attitudes		
when are you going to see your wife and children and that sort of	don't dare attitudes		
things, it can be that make the people negative you know	employee negativity		
if there is going to be more people here, there is still going to be	ompleyee negativity		
some guys that don't give a shit. I don't want to use the goggle and	poor employee safety		
don't give a shit about safety	attitudes		
I think once again it is going to make the person negative attitude	attitudes		
wise, and then he is going to make errors. If you not happy then you			
going to have problems	negative employee attitudes		
going to have problems	negative employee attitudes		
it makes the people negative	motivation and attitudes		
maybe he says no, its not my job to clean up, who ever it is or he	monvanon and annues		
	not taking roops asibility		
messed upI don't think they take accountability, they think they'll be victimised	not taking responsibility		
or disciplined if they report it, you've had instances	not taking accountability]

	Primary Error	
Dialogue	Attributions	
now everybody in their mind frame, this is my job, I got to get this		= □
done and that's what they are focused on	Individualism	Individualism
they don't interconnect and say what are you doing, how is my job		≦:
going to impact on yours, you know	Individualism	اط ا
everybody else is affected by his actions, he must take that into		<u>a</u>
consideration as well as his own personal safety so anything he does	poor consideration for fellow	<u>S</u> .
that might affect somebody else	worker	3
speeding I also think is a big problem, these people they rush		
around, they don't consider the other people in that work area, they	lack of consideration for	
don't follow procedures, driving with the lights off at night	fellow workers	
grand to a	lack of consideration for	
I looked around and saw some people but they all disappeared	fellow workers	
they nearly bliksemmed the guy because they stole it man, if you	lack of consideration for	
got a GPU on your shift, how can these blokes take it	fellow worker	
by the time the mechanic arranged a GPU it takes another hour,		
now the mechanic says to me, hey when can I start with my work, I		
say when I'm finished with my work, as easy as that because I	first come first serve	
started first	attitudes	
they see this thing there, and then they switch the power off, and		
we start right in the front, if that didn't take half of the content we	lack of consideration for	
started right in the front again	fellow workers	
you not going to help him with his trouble, and he is going to take a		
very long time to do his job, you will not jump in and help him to		
quickly get the job done	individualism	
I'm still busy. Even you, you are supposed to be doing the work	lack of consideration for	
inside the aircraft but he refuse to give you the way	fellow worker	
I don't have a clue, maybe they are lazy, I don't know	laziness	
because some bloke was too lazy to pick it up	laziness	Laziness
		I m l
you draw about three reflectors but you only use two, so with the		S
spare one you too lazy, put it in your cupboard, it disappears	laziness	0
with the few people that is not happy about working here, I would		
still think that it is going to be lazy, or that's what it is	employee laziness	
he forgot it, or he's says he forgot it, that's his excuse, but he is		
lazy	laziness	

	Drimary Errar	
Diala was	Primary Error	
Dialogue	Attributions	
they say the company doesn't look after me, so I will not look after		Not Going the
the company, so they will not go the extra distance to, you know	not going the extra mile	B
and you tell your team leader and he tells you its not his job	unwillingness to take responsibility and go the	ing t
either	extra mile	
I can find the bottle is broken inside the aircraft I can take it and throw it away in the dustbin or the stand it is broken in the way I can take it to were it suppose to be	employee unwillingness to go the extra mile	Extra Mile
some body if he see some thing that is wrong he thinks if he can	negative peer attitudes to	<u>a</u>
take it out maybe he is just stupid	going the extra mile	S
it is not only my responsibility, there are other stake holders, that	going the extra mile	l E i
actually result I that lying there, but I'm expected because I'm taking charge of the aircraft to clean up the area. I know the people think		
that why should I do it, I didn't throw it there, so there again we have	not going the oytra mile	
an attitude problem	not going the extra mile negative peer attitudes to	
you as atuald, you are doing outro work		
you so stupid , you are doing extra worklook, if a bloke tell you do this, you do it, but he will not do it right	going the extra mile	
	employee unwillingness to	
because it is not his job	go extra mile employee unwillingness to	
nobody will do oxtra work, nobody	go extra mile	
nobody will do extra work, nobodyso that could lead to negatives you know, the changes, so that	Reduced employee	
they become less worried about the company	commitment	Dwindling motivation
some guys have got the lighty playing rugby on every second	reduced employee	
Saturday, so what is he going to do, he's going to take leave every	commitment to make things	≗
second Saturday, so what going to happen	work	nc
it will not make them do silly things I would say, but it wouldn't	Work	n
give them a sense of wellness and to feel joyful at work. You get		0
guys that are a bit down because they are hungry maybe or		₹
becausewe are all human aren't we	reduced motivation	at
with the few people that is not happy about working here, I would	roduced metration	⊡
still think that it is going to be lazy, or that's what it is	employee unhappiness	
general and the general section of the section of t		
one thing that they can do is to motivate the team leader and then		
the tam leader can motivate us and tell us to get the job done	poor employee motivation	
they not happy, but then what can they do. You see its his word, if	Employee unhappiness and	
he wants a smoke break, it's a smoke break	demotivation	
you can't believe it man, and the people are getting more and		
more frustrated, I can see it	worker/employee frustration	
,	lack of pride for company	
there is no trots, there is no pride anymore	amongst employees	
,		
he is so fed up because of this qualifications and same pay, it's the same about a trimmer, what must he learn, he gets the same pay	dwindling employee motivation	
instead of completing the job in five minutes, it will now take you	2.2.7.000.0	
fifteen minutesbecause they now dragging it on	poor employee motivation	
you know how this bloke must feel now who knows nothing about	are a compression and a compre	
avionics and is trying	employee motivation	

	Primary Error	
Dialogue	Attributions	
I think that the people are not going to make it work, I think that people are going to really, really, aren't going to work by the bookI think that people are going to take their time and cause delays,	employee vengeance	Vengeance
that what I think	employee vengeance	lce
I lost out, now they took somebody that didn't come to work, now next time I'm going to get his ass whipped because if there is something that has to be done I'm just going to not worry about it. I'm just going to leave it	vengeance due to feeling of being unfairly treated	
but it looks ridiculous, to clean reading lights heads and put a mask on	Ego	Ego
there is a lot of politics, or how can I say, happening under the surface in the crews. The one always want to make the other one look bad, or maybe he wants to impress the team leader to get himself	Ego	and Bra
trying to impress to show how you can do the job within the		Bravado
prescribed time	ego	do
like let other people think he is a sissy now	ego	
this guy he just took his shirt off, dropped it there and go lie down on the cold floor with his back there, steam coming out of his mouth	bravado	
the times that I went on top of the wing, I was never pressed for time, it is easier to get the stand and get on top there, and there wasn't even the feeling of trying to impress anybody	ego	
remember the guy I told you about with the burns on his hand. I think he did go report it. And even him, he did not want any one to know that he did report it, behind our backs he went to report it	embarrassment influenced by prominent bravado attitudes	
there is a lot of politics, or how can I say, happening under the surface in the crews. The one always want to make the other one look bad, or maybe he wants to impress the team leader to get himself	interpersonal conflict	Conflict
financial problems, you know, personal factors, problems at home and financial problems, umm Things like that also have a underlying impact on the way you perform at workwe focus so much on that, on your little problems that you tend to overlook some important things and get frustrated	personal/domestic problems domestic problems leads to reduced focus on work	

	Primary Error	
Dialogue	Attributions	
Dialogue	Attributions	
well ignorance is the one thing that I've come across and the other		lgnorance
thing is that people don't know to the full extent what chemicals can	Ignorance about side effects	0
actually do to you	of chemicals	<u> </u>
the supervisor give you to use amazol, because amazol is too slow		ᇟ
to clean	ineffective	
they can have a deeper understanding of why we do what we do,	superficial understandings of	<u></u>
and learn to protect themselves a bit better maybe	safety	regarding
not realising he is actually causing harm to himself, more		<u>a</u>
complications than the odd times he hits the cartridge on the sides of		□.
the wall of the fuel tank	of his actions	
maybe I think this people need proper education to be educated		safety
about these things	need for further education	fe
Its proper education there suppose to be they need the proper		マ
education	require proper education	
	follow up education is	1
follow ups is needed	required	
ignorance is the big thing	employee ignorance	1 1
mgnerance to the sig timig	follow up education is	1 1
they need follow ups these courses	require	
I still say he is ignorant	employee ignorance	1 1
some of them have become so sensitised now that what one	employee ignorance	1 1
	Decempitional to observing	
person might see as dangerous level, the other person might say	Desensitised to chemical	
that I can't even smell anything	effects	
I don't think they would jeopardise their personnel but they might	sufficient emphasis not	
not also place an emphasis on wearing it	placed in safety	
many times people just don't think about safety, it happens a lot	safety is not a culture	
		1
if you have time to go to the locker to pick it up, now they push you		
for time, now what the guys do is to just throw the chemicals there		
and tell you now I feel like heaven and they'll laugh about it	humour used to mask errors	
biggest ones is we don't have the time and we don't have the		\overline{x}
proper education	lack of knowledge	ĮŽ Ι
you get new guys, the apprentices coming in, all of them doesn't		
have the computer training that maybe I, or you, or whoever else	lack of proper induction and	l e l
has	training for apprentices	Knowledge
most of the time it is because they don't have any experience, my	a an approximate	ge
manager, he calls us because the okes were too long on leave, or		<u>a</u>
they didn't know, or they didn't fly with this system for a few	lack of experience to	nd
months	troubleshoot	
montris	troubleshoot	X
that is because of experience, I would say the longer you work	lack of experience	Experience
in the second stay and testings: you working	practical implementation to	ष्
if you don't do the follow up those people forget what you have	ingrain theory learnt in	[전
taught	education is required	O
people focus on their core function and when it comes to doing	education is required	
investigation then they sort of forget about what they learned, they	and account of later and state	
actually don't realise that this could affect us all	not aware of bigger picture	
somebody is going to have to carry you	need for assistance	

	Primary Error		
Dialogue	Attributions		
then you got the painted floor, they've got protective paint on the	painted floor slippery when	I	1
floor so if you slip and so on, you slip on that if it is wet	wet	Human Factors	
		na	
you don't have time to go to the store, sometimes you work outside		n	
here, the store is that side and you don't have a vehicle	distance to store	ä	
you turn around and you bump your head, we'll I can't say that is		앉	
the aircrafts fault that is my fault for not paying attention	lack of situational awareness	2,0	
people not concentrating I suppose cause these errors	lack of concentration	0,	
they see this thing there, and then they switch the power off, and			
we start right in the front, if that didn't take half of the content we			
started right in the front again	lack of situational awareness		
	carelessness is a natural		
Naturally other people they are careless	human tendency		
It's the carelessness of we as the workers we are suppose to			
take care when we are working in the small place	employee carelessness		
the carelessness of the workers	employee carelessness		
		ī	\leq
they all seem to do like chemical and maintenance applications at	Work tasks are not planned	ad	ar
the same time instead of trying to stagger it a bit, the only people that		eq	a
are doing chemical applications are there at a certain time	according to application	Inadequate	Managerial Issues
planning could improve, that is another point which I feel if I had	People not involved in	ate	= .
the power, I'd try and plan it properly, get people involved	planning	D	<u>a</u>
no time to have it vented and bad planning	poor planning	Planning	<u>(0</u>
You see the manager is always sitting in side the office, he doesn't	<u> </u>	n	<u>S</u>
see what's happening, its not good	situation on the ground	Ξ.	le
	Positions scrapped but	g	Š
we used to have a bloke who used to at those things if it is there,	responsibilities not		
and they what you call it, they've scrapped that position now	reallocated		
you are already pressed for time and somebody else will come put	not considering limiting		
pressure on you	factors in decision making		
he should communicate and also not only consider himself	insufficient Communication	Po	
I think things have changed without consultation, I remember a		ŏ	
while back when I was myself in the hangar, they actually brought in	Lack of management	C	
a late afternoon shift	consultation	Poor Communica	
I do know a lot of people that do have negative or are exposed to		nn	
some negative publicity which we've had and stories about	muna avina in Ala a	n	
management changes that affect personnela lot of people are	rumours in the work	⊒.	
unhappy with that	environment	8	

	Primary Error	
Dialogue	Attributions	
I think state the facts but don't do what we've been exposed to,		ation and
what I feel is like a lot of negative publicity. Yes, we want to know		on .
what's going on out there but we really don't want to know like the	facts not communicated	a
nitty gritty	adequately	nd
communication, that's another thing. Talk to people, ask them		
what would they do to assist , you know	inefficient communication	Consultation
management always want to dictate policies but they never ask the		ารเ
workers what do they think	without consultation	l#
they don't communicate, they must have a brain storming session,		at
why do you feel that, why don't you do this, or why don't you do	poor communication and	<u>o</u>
this	feedback	_ ا
talk, communicate with the people, say I can't do this but I would		
like you guys to assist me, you know, discuss it. Maybe you'll come		
out with solutions that you never even figured out before	poor communication	
If I'm working with a chemical I just do my work and the other one	non communication of	
who's working with the engine is suppose to change his work	dangerous chemicals in use	
there is a book and the manager hides it away and doesn't say you		≤
know you have a right to seeif he doesn't tell you or you are not	managers not open about	an
made aware of it you will never know	employees rights	Management Motives
you see these guys also have rights, so long as they don't know	negative management	Jer
about it, you know, so they don't expose them to it	motives	ne
they said they will cater for us but that doesn't happen at all	broken promises	ä
Now all these people here, they clique to each other. This morning		3
a colleague showed me this bloke, this black bloke who use to be		ᅙ
here from cell c, the same as this Indian bloke that resigned here on	senior management serving	<u> </u>
Friday. Its money, its all money	their own interests	es
they don't worry about us. I mean if the company has no money	Management don't care	
how can these buggers get increases like this	about workers	
as long as he can buy a chair for his office, for the people that		
come and visit him	managers selfishness	
so long as that manager gets a car port for his car there is no	money used for managers	
money	own priorities	
if he doesn't use that money, he can take it and put it in his pocket,	incentives to save money	
that's it	gives manager a bonus	
that's it, if he can save on his budget, he gets money in his	incentives to save money	
pocket	gives manager a bonus	

Dialogue he gets a thirteenth cheque, he gets a thirteenth plus a fourteenth chequehe gets a thirteenth cheque, he gets a thirteenth plus a fourteenth chequehe gets a thirteenth cheque, he gets a thirteenth plus a fourteenth chequehad ye the supervisor maybe if he is you friend the supervisor he just keep quitefeel that why they don't show and respect to their workers, they think he is just a machine and he'll do as I say, but you got to look after a machine because of it failsyou can't go above them, they will always put you down. If they choose that person there is going to take you by the hand and he is going tomit is just a problem of unfairnessmpersonally I know the managers here are overworked and underpaid. You know that they got so much on their plate that they feel that they can't deal with any moreI think a lot of the times managers they might be overworked but then I think they don't consider the rest of the team I feel they must take accountability for what they are still supposed to do but they can at least delegate some of their responsibilitiesI've been exposed to where managers try to take problems away from the workers and eventually at the end of the day the manager can't get no work doneI think a lot of the time management feels these okes aren't competent enough to deal with it whey could maybe I feel take on a little bit of more responsibility stiff members can do somethingthe team leader feels now! I'm overworked, I mean some of your staff members can do something shows me that there is a lack of understanding and education on the managers part you know think that maybe it is the supervisors and the managers that are negative and causing us to be negative because they record it now from the TV cameras and they can find you now we had a manager saying that please speak to the guys, there is too many 100 cases ithere is always another bloke who will do i		Primary Error	
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insufficient pressure to ablue	they need some one to push them to do that		
· ·	they held some one to pash them to do that		ĭ
they ignore the rules in fact they need somehody to push them. Thy regulations	they ignore the rules in fact they need somebody to push them	by regulations	

	Primary Error		
Dialogue	Attributions		
They are supposed to have a person who is always looking at	supervision required to	1	
them	implement education		
I don't think there is enough training and why I tell you is that there			
are certain people trained that are chosen and I sometimes feel that	wrong people are selected		
the wrong people are chosen	for safety training		
a lot of times they have the attitude, the management, ought to be more careful because he doesn't do anything, like he doesn't want to go through the lengths of investigation or find a cause	management laziness		
	Management don't take full	1	
I feel they must take accountability for what they are still supposed	accountability for their roles		
to do but they can at least delegate some of their responsibilities	and responsibilities		
we don't usually use this thing unless there is an inspector running around, or someone that might see you. I've seen a guy who would take half an hour to an hour to get the equipment ready	using equipment to appease inspectors		
some of the guys will not have such a tough workload for the day, some of them will have it easy, some of them will suffer a bit	work team loafing		
if the store man doesn't say look, this is broken, then its too bad	store man not fully aware of equipment serviceability		
and those people if you report something to them, they take time to come and repair it	time loss due to inefficient outsourcing	Out	
they are going to take three to four days to fix that vacuum cleaner	time loss due to inefficient outsourcing	Outsourcing	
but the clauses in that paper work now, they can't supply you, they	inadequate contract with	<u>ਨ</u> ੋ.	
don't get a penalty, till they renew this contract again	outsource company	ng	
if they can get the that contract out and the company do things	inefficient outsourcing]	
for its self I think things can be solved	company		
it doesn't need to loose a lot of money they need profit	outsourcing company maintains own profitability		

Appendix F

Maintenance Staff Focus Groups- Primary Error Attribution Themes

	Primary Error]	
Dialogue	Attributions		
I'm expected to be wide eyed willy winky you know, it can't happen		Ш	S
cause when you are expected to go to bed, I can tell you from		Effects	Shiftwork
experience that when I go to bed and put my head on the pillow, I		C	
don't fall asleep	Shift work: Fatigue	S	> N
total swings of shifts and all that contributes to you being tired, you			Σ
not being able to focus	fatigue and lack of focus		
I'm getting sick and my body immune system takes a knock and		1	
you know it is all contributing factors	Shift work: Immune Levels		
he used to work in a shift environment, the problem I think that the		D]
company has not set out with an industrial psychologist and set out a	shift work not adequately	es	
proper program	designed	Design	
but if they consult maybe a psychologist or a industrial] =	
psychologist to work it out maybe better, ummif the whole working			
environment was better, I think that the people will be a whole lot	poorly designed shift		
more loyal.	schedule]	
this company doesn't cater for your family life, and that is within			
our section. Think that two in three people or four in five people are	impact on family life not		
on their second wives because of divorce if that is an indication	considered by company		
that is why I decided to leave the shift environmentI just did it for			
the family life, in majors you work two weeks day shifts which is	shift work impact on family		
seven to three and then the third week you work from 12 to eight	life		
you know is he tired, is he overworked, you know there is a lot of			
things like that	workload		

Any external certification is not recognised in this institution. Nothing extra is rewarded.	enhancing skills not rewarded	Re	Re
you have to have a minimum of two courses and you have	low reward for enhancing	eward	ecognition
reached you limit of earning	skills	0) J
at the end of the day I'm putting my job on the line to say that is			I≓
where I am going and yet you are not recognisedyou are taking on			9.
further responsibilities and you should be getting compensated for	responsibility not		Š
that responsibility	compensated for		<u>a</u>
I don't think that it is a justifiable increment where you say listen,		1	and
its worth me having four courses allowing me to sign-off four or five			l
airplanes as flyable, is not there	responsibility not rewarded		Reward
in the last five or ten years, a lot of expertise were lost by okes			\$
leaving the company and I think that a lot of loyalty was lost due to a			ar
number of reasons.	loss of expertise		Q
company has also one of the highest standards in the technical		R	1
environmentits not the pilot that is pulling, it's the guy at the back		ес	
behind the saddles. No recognition.	lack of recognition	10	
sometimes you work your ass off and then there is a lazy there] <u>⊐</u> .	
and a manager will give him a pat on the back, and no matter how		gnition	
hard you work it is only a certain blue eyed boy that will get the thank		ĭ	
you for this	unjust recognition		

Diala mus	Primary Error	
Dialogue	Attributions	Ι.
you are not always given recognition for a job well done, a thank		
you for doing this for me or whatever it is	lack of recognition	
the person who performed the best at the end of the course was		
usually given a tie or a little bag as little token of appreciation	lack of recognition	
the last few courses those were taken away, nobody knows,	budget cutting recognition	
apparently for budget reasons	incentives]
you get a lot of people that was on course that are competitive and		
say let me go up there and be the best, to show I earned this thing,		
and what you end up with, nothing	lack of incentives]
he can't take that plane out, he got no authority to take that plane		
out, yet we are not given the same kind of recognition as them, we	injustice in recognition	
are just as capable	across disciplines	
salary for one. If you look at the increases for this company for the		<u></u>
last ten years was not up to the inflation rate.	below inflation increases	<u> </u>
		Injustic
to become pilot it is easy, its even easier than our courses. They	injustice in salary between	မေ
come with 35, 40 grand a month and he doesn't know a thing	disciplines	
the company, they want stuff, you must bend over backwards, we	unsatisfactory company	
all have children and families at home	reciprocation	
then you hear of other sections like the pilots end up with salaries		
of 50 and 20 percent increases on their types of salaries and then		
you think hang on, the company is paying a lot more towards them at		
the drop of a hat	injustice across disciplines	

Lyange book there was a let of level poorle at this angelie company.	·		
years back there was a lot of loyal people at this specific company,		0	四
and loyalty gets bought by a lot of things	decreasing loyalty	Yá	_
in the last five or ten years, a lot of expertise were lost by okes		oyalty	2
leaving the company and I think that a lot of loyalty was lost due to a		~	9
number of reasons.	decreasing loyalty		Employee
There is no motivation in this place.	poor motivation		1
I'd say no motivation.	poor motivation		≥
when you go to the tea room let it be neat and clean, let the toilets		Ш	유
be working, you understandpaint the bloody walls, from white they		7	<
going to like creamI mean put a pot plant here and there, you know	Unsatisfactory aesthetic	<u>₹</u>	at
what I mean	work environment	Environment	Motivation
but if they consult maybe a psychologist or a industrial		₹	5
psychologist to work it out maybe better, ummif the whole working		l B	
environment was better, I think that the people will be a whole lot	unsatisfactory work	🛨	
more loyal.	environment		
some people have political beliefs as well, some people are not		D	1
happy working with or amongst non-whites	racial attitudes	Disc	
that's also a contribution factor for a loss of loyalty because now if		crimination	
somebody becomesa non-white that is in a position of power and		<u> 3</u>	
we don't believe in listening to non-white people	racial attitudes	Ιχ	
when I started my apprenticeship, they guy told me, know you here		≝	
on affirmative action, so I said finethe only thing they could have		음	
told me is they think I cheated, but if they looked through my record			
they would have seen that look I studied a three years national			
diploma	racial attitudes		

Dialogue	Primary Error Attributions		
but if a white guy, it would have been the, no this guy is intelligent,		1	
or this guy is this or that and every time it is the same routine that			
you see there is not like merit in fairness	racial discrimination		
if you don't know the person well, this person doesn't like you then you have to go learn it on your own and read it from a manual where if another guy comes and they'll pump him with information	discrimination with respect to on the job training		
they must have 100 people to applymust actual make the okes that does the merit rating must only have the numbers in the corners, they'll say ok,we'll choose the best oke	merit and ability		
whereby in another section like in mechanics, they don't get the opportunity to go and fix it.	certain employees not given opportunities to enhance skills		
there is about 70% or 80 % of mechanical people that doesn't have one course on there name or certification	poor qualifications		
so that oppressed all the people of colour which was wrong, but now they turned it around to the other side, so now white males are like in trouble or on the bottom of the food chain if you can call it that	negative perceptions of affirmative action	Perceptions	
except when it is a personal level, like say if you are the team leader's blue eyed boy or whatever he will tell youyes well done, or well done for the course.	favouritism	ons	
and favouritism as well, in this company I noticed maybe in other companies as well its who you know. If you know somebody well you can get promoted without having the proper paperwork and without having the proper this and the proper that	nepotism		
a big problem might be cultures you know, a lot of people don't understand other peoples cultures.	cultural differences		
when you speak to me in Afrikaans you must go very slowly because I can't understand it.	second language communication		
because he grew up speaking Afrikaans and I grew up speaking English. It is natural tendency and to get rid of it, that will take time	second language ability		
you don't have anything to show for your commitment and dedication and people were told sorry the budget does not allow us to spend 15 rand moreand they will spend a lot of money on other things that are totally unnecessary	hypocrisy in budget policy	Budget	Spinal
so he rather cut out the human factors and certain other factors to try and make the books balance, so that doesn't make sense.	low priority of human factors in budget		lago lici

Managem	ment		
Budget		inefficiency	
hypocrisy in budget policy	low priority of human factors in budget	Poor management development programme	inadequate managerial training to promoted technicians
you don't have anything to show for your commitment and ledication and people were told sorry the budget does not allow us a spend 15 rand moreand they will spend a lot of money on other hings that are totally unnecessary		, ,	make me do the books, I can't do the books, it wasn't part of our

	Primary Error	
Dialogue	Attributions	
actually the way they manage, they manage us so that we are not desperate	mediocre management	
		_
we blame the environment, we blame the system, but no body in this environment has taken the time or invested money to really rectify it	management not applying mind	
nobody looks at why the task cannot be accomplished in that time	limitations not considered and rectified	
if every manager does what he suppose to do	inefficient management	
the manager doesn't want to budget too much of money because then it looks bad on him that he doesn't want to budget	incentivising of saving	Mistrust
selling of equipment to show a profit, so liquid profit but not fixed assets	historical managerial decisions	İst
if managers were more fair and judged you as personsI think you should actually judge a person on his ability to work, judge him on work you understand	Unfair management judgements of workers	
That person that is like they will teach him a work but secretly.	mistrust of management	

		_	
now the stressful situation that you already got gets bigger and		Illne	Stre
	related illness	าe	<u> </u>
because of a stressful life, that is why so many people get heart		SS	S
attacks and strokes here, you understand. stress	related illness	•	S
with the highest divorce rate in this company stress of	on family life	Ę	
the highest divorce rate in this department, in this company most	on ranny mo	ffects	
	on family life	쑮	
of the guys are on there second of third wives	on ranning inte		
If that is not an indication of the toll that it takes on your family life		on	
	on family life	Family	
had a problem at home and then you come to work with that		3	
problem and other factors add to you and you not actually		₹	
concentrating on your work itself Home/	work life transfer		
did you make the right choice, because if you made the wrong			
choice and the aircraft flew, then you got disciplinary procedures, second	I thoughts on		
	re choices		
now in ten minutes you must diagnose what this monkey has done			
to that system, and fix it and repair it and send the aircraft in ten			
	ressure		
Discipline as well, you find that not having tooling and somebody has			
got it and they'll finish it tomorrow and instead of taking it back to the poor di	scipline abiding by		
store to go and get it again tomorrow, I rather take it home tooling	rules		
I think that it is a bit of human nature as well to be a bit lazy when			
you got something human	nature		

Appendix GTeam Leader Interviews- Primary Error Attribution Themes

	Primary Error	1
Dialogue	Attributions	
I feel that some of the team leaders or some of the SLT's, who are predominantly white at the moment, are forceful with the non whites and they don't train these people	Racial Discrimination in On the Job Training	On the
when you have direct aircraft related training and that is the reason errors occur, because junior guys obviously are the non-white people that walk into crews and they are not being trained, obviously not welcome and they are not being supervised	Racial Discrimination wrt supervision	Job Trai
as a challenge for them everyday and this challenge is obviously something that they have not had any experience in, and the guys with experience are not showing them that little bit extrathe non-whites are not being promoted because they don't have the experiencewhere as you have a new youngster, a white guy, they say boetie don't worry I'm going to take care of you	Racial Discrimination wrt supervision and guidance Lack of exposure Racial Discrimination wrt Mentorship	On the Job Training and Supervision
Now you can go to other crews in my section and you will find that non-white guys will come through, who have not even got an aircraft course and don't even have half the knowledge as the guys who have come through in my section	Racial Discrimination wrt encouragement	ision
the training and development side of our company does not look at statistics when it comes to non whites, that is also one of the reasons why these non-white guys aren't being trained If you as a non white want to get on a course, you have to fight and you have to get a white off, to be given an opportunity	Racial Discrimination wrt selection for training Racial Discrimination wrt selection for training	Training Selection and Opportunities
but they are saying they are looking for capability, but obviously they haven't done their own work to see who is capable of doing the stuff	Weaknesses regarding selection for training	Selectio
two of those guys did not make the course, but he had sent those guys on the courseit depends on whose side you're on, if you never been sent then	Weaknesses regarding selection for training Injustices in selection for	n and
you say it is unfair, you have been sent twice or thrice	training Injustices in sending	Opp
they were sent on courses, not sent on courses	employees for training	유
get to the management of each section or the relevant sections, that is, communicate with them especially with respect to the non-white people, providing them with training, bring them up to level.	Management discrimination regarding training of non-whites	unities
it depends on where you are, which department you are in, You might never get to be sent on a course, for some people that will be disillusioning.	Lack of equal opportunities for training	
I had to be here three years before I went on my first course, on which they dumped me in a 747 400 which was the toughest course that we had at that stage	set up for failure	
I acknowledged what the situation is between the whites and the non whites and what is happening here, and he was quite adamant, until I told him that I have my SLT and then he said no, you should be on a course and he changed it.	Racial Discrimination wrt Training opportunities	
white guys who do not have certification, those guys are the guys who are still being given opportunities to go on courses.	Racial discrimination wrt Opportunities	

	Primary Error]
Dialogue	Attributions	
What they done was, when the first course came out, I saw ten white guys on that course	Racial discrimination wrt Training selection	
I worked without any greeting, without any respect for the first three months, I worked to earn my self my position, to earn the respect of these guys	Blacks having to prove themselves	Racia
And all of those guys who have worked in other crews have always been condemned, told how useless they are. Why are they useless, why are the guys who work with me not useless.	Racial Attitudes	Racial Attitudes
obviously, look at the racist factor involved hereI know on the racist factor I can give you, I can tell you a lot of	racism	ides
thingsthe white guys make a flop up and it is not seen, suddenly you didn't hear it, you didn't see it, and a non-white makes a mess up or a bugger up then the whole airline knows I feel that some of the team leaders or some of the SLT's, who are	racism Racially discriminating culture	
predominantly white at the moment, are forceful with the non whites and they don't train these peopleit is one of the steps that currently being used as a weapon so as	Racial Attitudes	
to say, when errors are being made it is that these guys are not doing their job a more white dominated areasort of leads to people that are	blame the blacks	
obviously non-whiteit sort of leads to error because they sort of feel inferior	Inferiority Complex of Black Staff	
we have an inferiority complex, and I think that is one of the reasons that errors are being conducted or made	Inferiority Complex of Black Staff	
not at any stage they looked at this as becoming a problem psychologically	Lack of consideration for staff from management	Cons
you need to have management that are capable of respect, and say I need to look after these people because they are going out of their way	Lack of management consideration for staff	sidera
they don't look at it as a point of stress in your life, how does it impact on your social life, or how does it impact on you family life at all.	Lack of management consideration for staff	Consideration for staff
they come out once in a while, but they don't see it as a problem for them. But we on a everyday basis are there but they don't think of the consequences on us daily.	Lack of consideration for staff	
I think they in the wrong era, the wrong type of work. They not doing what they should be doingthere is some guy that can not handle the pressure and they are in	Individuals not suited to job	Mana
seniority positionspeople must be willing to accept responsibility, people if you never	poor person job fit	gemei
give them any responsibility then you not going to get a very happy workforce.	Unwillingness to accept or delegate responsibility Time delays in correcting	nt sty
there are time issues but they are corrected eventuallyyou've got to help him, obviously show him and say listen, you	documentation errors	anagement style and abilities
have to go forward, I'm telling you to go forward or listen, you have to go forwardhe's driving around with a two hundred or three hundred thousand	Poor mentorship	abili
rand motor car, but he is too stingy or he doesn't have the money to spend two thousand rand on a hands free kit which is law. The law started here!	Higher management not role modelling	ties

	Primary Error]
Dialogue	Attributions	
but you have got a lot of the old mentality here, where you have got some guys with twenty years experience and some guys with thirty years experiencethey only had to come in and shift the radio and that was it.	Very Experienced team leaders Inability to cope with changing environment	
you could get inter crew competition, like certain crews do things quicker than other crews because they got more experienced people they've done it more times, that does happen	differences	
from what you hear, from what you see around you, from your observations on the management, the media and so onI would try to get rid of the idea that there is a them and us	Lack of communication between management and employees Dichotomy between managers and workers	Communication
there has always been a problem with work instructions, they just have never been able toyou always hear that there are your work instructions of management	Work instructions not openly available Lack of personal contact	cation
of that personal contactI think what is happening there is a failure of communications	between management and employees	
within themselves That's it, Decisions are just enforced with no consultation.	Inefficient communication Decisions enforced without consultation	
Now suddenly this appears from nowhere, and you got this on your workload, it shouldn't be like that, you should be a step ahead, you should know where you are going toyou not educated on such matters, you would not know what is	Inefficient planning Limited awareness about	Inefficient Planning
dangerous and what is notplanning is important, and planning is one of our biggest problems	hazards inefficient planning	nt Planı
I think that one of our big factors is planning in this company. They just don't schedule thingsthose guys are all willing to take these days what we call a commercial risk, while it goes well, so be it, and we'll take the	Inefficient planning Management taking a	ning
punishment when the time comes. Because people don't do their jobs and there is probably no money.	commercial risk Financial Pressures	
no driver aroundthey haven't trained enough of them, maybe they trained four of them and they are on a different shift	Sufficient people not trained with skill	
no driver aroundthey haven't trained enough of them, maybe they trained four of them and they are on a different shift	Members with skill not planned and allocated to be on a shift	
there is too much manpower on one aircraftI want to clean, electrician he want to put in a wire, the mechanics needs to do something you seeNo I wouldn't say deliberately, its just an oversight, or the	poor work task planning poor work task planning	
disregard for the end result that it can create	Lack of foresight to implications	

	Primary Error	1
Dialogue	Attributions	
Very bad because you have to motivate the oke for him to come do		70
the best job he can do	Low Employee motivation	Poor Employee Motivation
if they don't have to do anything, they'll do nothing.	low employee motivation	 ~
it demolarises you man, it demolarises you, because look what		15
does it do, you feel inferior, you feel like you are scared, even if the		局
guys offers you a course afterwards you think ah, I'm not	Demolarisation and lack of	l.o
capableyou scared	confidence	ye .
people are negative working in the company, but I don't want you		19
to write itcause like I say, it is not a good thing, but at leastI work	Employee motivation is	
everyday with itpeople are always negative.	negative	∰
		l a
you know when the worker is happy, your company immediately		S i
profits, if you workers is not happy, it goes down for a fall.	Worker unhappiness	<u>ב</u>
if you look at what was given in the beginning as travel facilities or		1
perks that has also been watered down and those are all things that		
come through as a demotivating attitude	Demotivated attitudes	1
But anyway, I believe that is the attitude or demotivated		1
attitudeagto hell with it!	Low employee motivation	
	Employee don't care	1
when certain people once again don't give a damn	attitudes	
that definitely leads to the bad attitudes and the self discipline		1
things, and that negatively impacts on work.	Negative attitudes	
the biggest thing is that it does have an impact on mental	Negative impact on	1
attitude	employee attitudes	
That could be because of not being properly motivated	Low motivation	1
I believe it is demotivation by the company right here	Employee demotivation	1
		1
See, that is the bottom line because most of the things is ummm,		
like the people arewhat I'm telling you, people are negative	low employee motivation	
As I told you, if you make the workforce happy, you win the whole		1
company, 99.9 percent better.	Workforce unhappiness	
You see the main thing about pay is that the pilots get paid these	Perceived salary injustice	ס
ginormous salaries and everybody else gets little	between disciplines	Perceived Injus
who gets to go overseas, who doesn't get to go overseas	Injustices in utilising perks	18
pilots fly first class, we fly closet classso our perks, it sucks,	Perceived perks injustice	₹.
bottom line.	between disciplines	<u>8</u>
The responsibility that people carry and how they get paid is not	pay not aligned to level of	1=
right	responsibility	
if you look at what was given in the beginning as travel facilities or		St
perks that has also been watered down and those are all things that	Reduction of perks and	tices
come through as a demotivating attitude	travel facilities	Š
you know lately we've all been told that there is about 400		1
technicians they want to get rid of.	Impending retrenchments	
	Management not keeping	1
That's easy, keep the promises that you've promised the people,	promises and treating	
treat them with dignity, not just as a number.	workers with respect.	
a car area. That arginity, not just as a number.	Management not keeping	1
Don't promise things and take it away again	promises	
There is just one thing, salaries, its never getting paid on timewe	Employee dues not fulfilled	1
always have to fight.	by company	1
Ja. Its like I say, between the pilots and ourselves, their salaries is	Perceived salary injustice	1
like twice or three times ours	between disciplines	
The three of three three outers.	DOCTOR GOOD IN 100	_

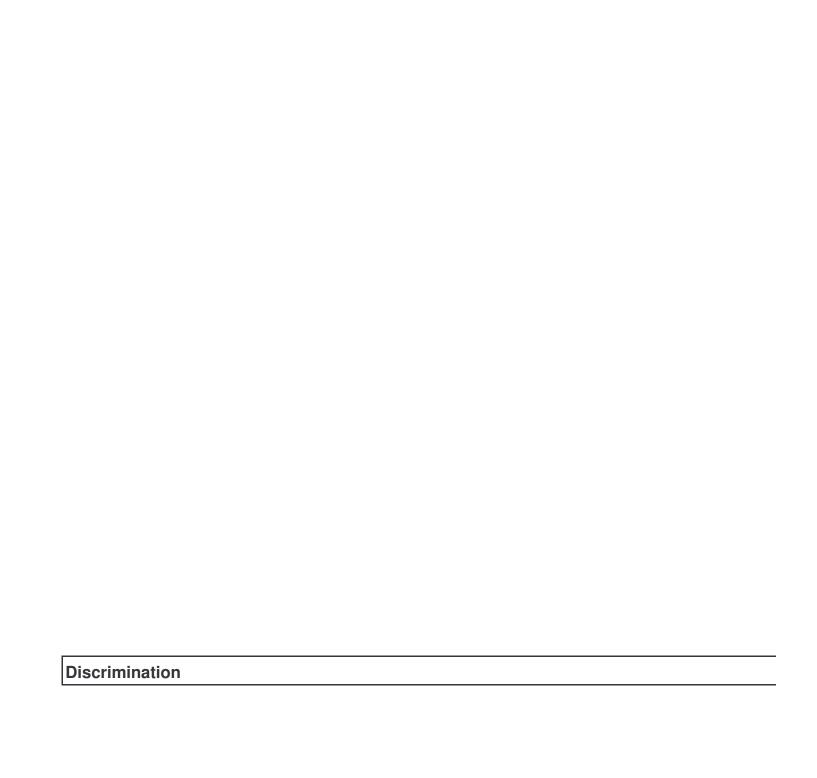
Dialogue	Primary Error Attributions	
the airline will go and sponsor a rugby team with travel facilities, but I can't even get those. I work for them but I can't even get those travel facilities	Perceived injustice in spending priorities	
how privileges and that have been dewarded	Reduction in benefits	
80 percent of increases go to pilots and 20 percent to the rest of the airline	Perceived salary injustice between disciplines	
No. they never reward you for anything.	Lack of reward and recognition	Lac
They don't get rewarded	Lack of reward and recognition	k of
Because in our section, if you get two certifications or a hundred certifications you get the same money	Lack of reward for enhancing skills	Lack of Rewards
There is no knowledge improvement or nothing, they is no encouragement to do aircraft training, to say look, get your certifications, get licenses, there is nothing of that sort.	Staff not encouraged to up	ards aı
I would go to these management people and say recognise those people	Employees not recognised for their contribution	and Re
When we started here, we had job security, you had your pay on time, negotiations, and you had you perks. Today you got no perks, no job security.	Lack of job security and perks	Recognition
They pay your salary and that's it	Lack of reward and recognition	tion
there is also a lack of encouragement from the senior guys because they go for it, they use them as a weapon for their own gain, obviously, because as long as he is there, it goes on that way, I'm not going to bother to help him	Lack of encouragement from seniors	
the general pride of the airline, that's it, I believe that's the major cause of dissatisfaction of the airline. I've got to try and instil that in other people.	Lack of employee pride in company	Lack of
How much pride, how do you saynot prideenthusiasm does that instil in a man.	Reduced Enthusiasm	of Pr
not only pride in the airline, I mean pride in yourself, that's it, pride in life, that is what it comes down to	Lack of pride	Pride and
this is the thing that I fix, so you could instil a bit of pride in the family too, because they're also interested	Loss of pride and passion	
I'm not even allowed to bring a camera in here. Its little things like that. Those are the pride that the airline used to.	Loss of pride and passion	Enthus
there's no pride in it, they don't think, lets use a weird phrase, outside the envelopeI could show you when it comes to peoples general interest, how many people here are interested in aviation, how many of them are real aviation buffsits not a passion anymore	Loss of pride and passion	siasm
if the aircraft is standing open in the rain why do we wait for certain people to come and close the door, what's to stop you rushing up there and closing the doors		
you walk past in the hangar, there is a pile of components lying on the floor, they are lying in the rain. Does he first of all drag them out of the rain and say to somebody, hey! This is your department. Not pride in their jobs, not proper time keeping, arriving to work	Not going the extra mile	
late	Lack of pride in jobs	

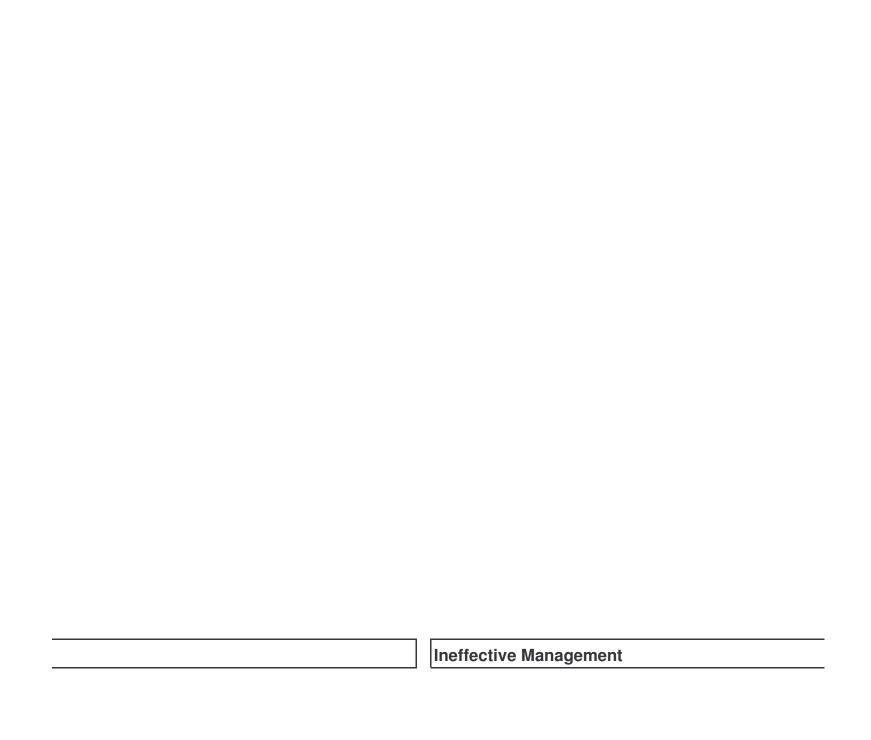
Dialogue	Primary Error Attributions	
lets call it a career problem, because of the changes in the airline,		0
certain people are now sidetracked to get to the top, so now you got		٦ř
those other guys who are left	Lack of career opportunities	Ĭ
there is a whole bunch of youngsters over here, who are not going	Edok of dareer opportunities	🕏
to be getting anywhere either and they are capable.	Lack of career opportunities	Opp
I'll take you to youngsters now, who are craftsmen now, who are capable of moving up the ladder, but there is no ladder for him to move, so he is going to be a craftsmen for the rest of his life.	Lack of career growth opportunities	Growth Opportunities
Dynamaticus is the well-ut years along	Lack of opportunities for	es
Promotions is there but very slow.	career growth	
you make the job work for you, you make yourself happy and you	No outlet to change status	
carry on, you don't let these issues influence you.	quo	
Purely financial. There is no self satisfaction.	Lack of job satisfaction	Į.
you make the job work for you, you make yourself happy and you carry on, you don't let these issues influence you.	Employees forced to ignore issues and do job as best they can	
		Self
it is self discipline. It doesn't matter what it is, it comes down to it.	Poor self discipline	≒
that definitely leads to the bad attitudes and the self discipline		D
things, and that negatively impacts on work.	Poor self discipline	S
And lack of discipline.	Lack of Discipline	∺
he doesn't have the discipline to clean up	Lack of discipline	Discipline
Lack of discipline	Lack of Discipline	le 1
bottom line is, Its actually a lack of discipline	Lack of Discipline	
	Lack of discipline and self	1
lack of discipline, self respect	respect.	
that is a problem of self discipline, lack of self discipline.	Lack of self discipline	1
start cultivating a group of people with self discipline, particularly		1
self discipline more than anything else. Once you get there then the		
other things will come.	Lack of self discipline	
as a matter of fact there should not be team leaders or managers or something like that, they should be one crew	Individualism	Selfishness
		S
so you can weed out those who don't want to be part of this team.	Individualism	ᅜ
he doesn't even to take his time to see that now everything is	Between team competition	leg
clear, once he said careful, everybody must listen and move. Then I	to complete task and protect	Š
carry on doing my job because I don't want to be blamed, my	own interests at expense of	an
department and be reported	others	ם
		<u> </u>
I suppose the other person has no self respect, he doesn't give a	Employee selfishness and	ld∺
damnits pure selfishness but I don't know, I can't answer why	individualism	<u>id</u>
		d Individualism
if the old system of military training did nothing else, it taught		Sil
people discipline, and respect for other peoples equipment and	Lack of discipline and	3
personal belongings, we seem to have all lost those types of things.	respect for fellow worker	1
you can't live in an isolated world where you only think of yourself.		
Where you only care for the job that you do, I mean there are other		
human beings working with you.	Disregard for fellow worker]
Protective clothing is not very nice looking, I mean these days	Selfishness and	
everybody thinks of himself	individualism	

	Primary Error	1
Diologue	_	
Dialogue	Attributions	
	Employees not fulfilling job	🗧
Because people don't do their jobs and there is probably no money.	requirements	Work Ethic
what I tell you if everybody does their job then there will be no	Employees not fulfilling job	l m
errors, that's what they get paid for.	requirements	∰
Each section have got these people that go around and fix it, and if	Employees not fulfilling job	<u>ਨ</u>
they don't do it, it becomes a hassle.	requirements	
I don't know, everyone has to explain for himself why he is not doing	Employees not fulfilling	
his job. I'm not there to watch everybody.	responsibilities	ł
if everybody does the job they supposed to do, then there will be	Employees not fulfilling	
no problems.	responsibilities	ł
If avarybody dogs their ish there will be no problems	Employees not fulfilling job	
If everybody does their job, there will be no problems	requirements Employees not fulfilling job	ł
naanla dan't da thair iah nranark		
people don't do their job properlyOh! We'll wait for the cleaners to come afterwards and by then its	requirements	1
	Not taking reenensibility	
too lateI get the impression it is the personal attitude, the cleaner will	Not taking responsibility	ł
come and do it just now	Irresponsible attitudes	
Yes. It is like it will never happen to me.	Risk taking behaviour	ł
too lazy to go and get them	Laziness	ł
he might have to go and obtain the correct tools, now that might	Laziriess	ł
be a schlep here. He has to work and he might be lazy to walk and		
things like that.	Laziness	
if there is a discipline, people each and every person he will know	Weak disciplinary	_
exactly what I am doing	procedures	Ve
Chaotiy What I am doing	Long and ineffective	2
they long and they not effective	disciplinary procedures	Weak Disciplinary Process
If you look at that lack of disciplineif he said you were fired that	alcolpinary procedures	S.
means that you took your bag and you walked out, so today it takes		음
an act of parliament almost to get that done	Lack of discipline	I≝
there is a manager or really a supervisor has not tools to discipline		<u>ਡ</u>
any more, it's a joke and that's it	of tools to discipline	⋜
. ,		P
give a verbal warning, eventually it will lead to a written warning		0
and then eventually that could lead to a disciplinary hearing	Complex dismissal process	ě
the law has become crowdedown persons rights seem to have	Employees overprotected in	Š
taken A higher than any other sort of discipline	labour law	
We work a shift environment. Now with all that shift changes, that		S
also impacts on you life style a lot ok. Not just your social life, but it		≛:
also has a lot of implications on your metabolism and that kind of		7
thing	Impact of Shift work	ŏ
I think that it takes me to come in from a night cycle, it taken at		Shift work
least two to three days to come out of that totally, because my mind		
and my body has become part of the night shift.	Impact of shift work	L
		Ñ
if there was such a thing as assessment of you pressure levels		re
and your stress levels, they would know the capability of people	poor person job fit	Stress
		"
but not once have you seen someone from within the company or		
but not once have you seen someone from within the company or outside the company come here and say, come to us, and sat listen,		
outside the company come here and say, come to us, and sat listen,		

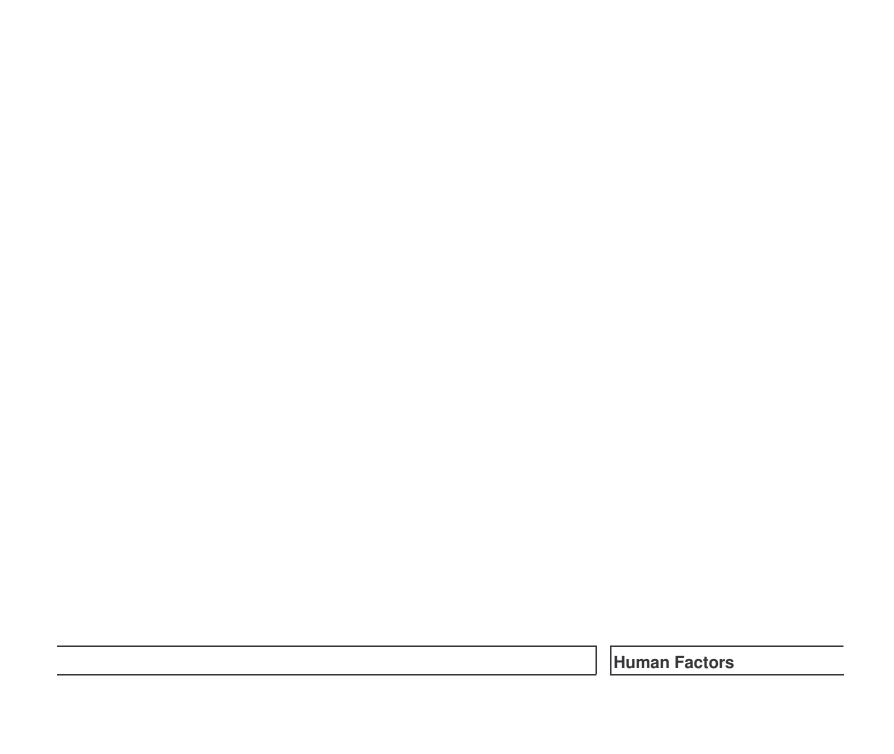
	Primary Error	1
Dialogue	Attributions	
And as I say, stress, they don't look at it, as I say, the environment		1 1
is stressful, a lot of pressure,	Stressful work environment	
sometimes because you have to deal with a bit of stress	Stress	-
then everyone is stressed because you have your own workload	011033	-
you have to cope with, and you have to cope with this problem done	Stress due to heavy	
here as well, it becomes too difficult	workload	
over the past ten years, the size, or the manpower size has		Heavy Workload
depleted, but your aircraft fleet size has increased	Increased workload	ä
the crew size was like 430 people, and if you look at it now, it is		>
like a third of what it used to be, the fleet size, the aircraft size is like		\
triple the size.	Increased workload	윽
	Burdening diligent	즐
it will burden others if you don't do your job	employees	oa
everything they just do in a hurry, but at first as I've said now,		٥
there is too much work, we are overloading	Work overload	4
we used to have one aeroplane, maybe two aeroplanes in a week		
to do. Now in a normal shift I can have twelve aeroplanes and I will		
have to do them in the same time.	Increased workload	<u> </u>
amongst those aircraft there is a time you see, and then we are		
not managing to do that	Heavy workload	
working normally in too much of a haste, that is why you are		
rushed to do things and that is when you really get hurt	Time pressures	∫ ∑
because of the time constraints you have, to do a job.	Time pressures	
just to get things finished	Time pressures	ا يرًا
time pressures a problem	Time pressures	SS
especially in a issue where there is a rush or something like that,		Time Pressure
you have to overlook that	Time pressures	ē
the man is not wearing safety gear, you haven't got time to go and		
get it	Time pressures	
I think there was a time factor involved	time pressures	
amongst those aircraft there is a time you see, and then we are		
not managing to do that	Time pressure	<u> </u>
we might not follow whatever they tell us because we just want to		
do that work quickly	Time pressure	
Protective clothing is not very nice looking, I mean these days	Aesthetic appearance of	T _C
everybody thinks of himself	equipment	Tools,
	Inconvenience to wear	S
Wearing safety equipment is hassle.	safety equipment	m
if you don't want to use it, its your priority. The laws is laid down,		입
you have to use it, You don't use it, you'll carry the consequences of	Safety is employees	ᅙ
that.	prerogative	Ĭ
I don't think there is a known safety shoe in the world that	technology of safety boots	'n
prevents slipping	not advanced yet	quipment and Nature of Work
we have gone through several international makes of shoes,		nc
styles, and everything and we have not found a reasonable slip	technology of safety boots	-
protector yet	not advanced yet	at
he might have to go and obtain the correct tools, now that might		<u>ב</u>
be a schlep here. He has to work and he might be lazy to walk and		e,
things like that.	Distance to tool store	으
They only got a certain number of things, lets take a ladder, they		€
might only be three one metre step ladders or two one metre step	Tool stores not sufficiently	익
ladders	stocked	<u></u>

Dialogue	Primary Error Attributions	
aircraft have a lot of open panels, open kells, open space and people move around in those areas and they do walk into these things	Nature of the work	
its just the way it is, its like walking down a stepthey go and paint this nice white passenger or people on foot line	Nature of the workplace	
there and people slip on it oftenafter hours the medical department is closed, there is no	Painted lines slippery poor availability of medical	
professional medical attendants on site You have to make up tools yourself, we'll not yourself, there is a	treatment after hours	
section that does it.	Manufacture own tools	ェ
awareness of things around you	lack of situational awareness	uma
You got to be aware of what's going onI think the more awareness is driven around the human being, will tend to make it like a subconscious reaction, hearing these things all	lack of situational awareness	Human Limitations
the time it will become part of conductI'm looking through glasses this thick	insufficient awareness personal limitations	tatio
the guy that made the offer has some other activities to perform and in lieu of that he forgot to put the cover back on and the air blade was onguys that's not paying attention	exchange of responsibilities Lack of attention	ns
you will get some bad judgements should there be a chemical spill, or something that he can tolerate at the time	poor judgement	
he might have a total slip of mind, you know that does happenit is just a question of familiarity	slip of the mind familiarity	
the guy wouldn't have had to remember it. He would actually have read it and remembered or known he hasn't done it and he would have gone and done it.	forgetfulness	
ear plugs, ear defenders, you might not have them with you, your safety goggles might not be with you	Circumstances	
it has got something to do with the concentration levels and the regard for the danger in the areas that we are in.	Concentration fatigue	
normally a short little task, the duration of the task is short and a guy needs to flush oil out of a kell or a clean surface	Shortness of task leads to bypass of regulations Time of task weighed	Weighed
a quick activity that ends up in a bad result	relative to time of setting up safety equipment	
time could be a factor because this cleaning task is a very small, short event, it normally happens when people are busy closing kells or closing compartments, the last thing that happens before closure	Time of task weighed relative to time of setting up safety equipment	Benefits
he has done this a hundred thousand time before, never walked into a prop and this time he was unlucky and he did	statistical probability	
it has got something to do with the concentration levels and the regard for the danger in the areas that we are inlets say some of the workers who do not want to take good care of	disregard for danger	Risk taking and Role modelling
their health, they thought maybe the other one will take good care of his or her life		takin mode
believe that they're infalliblethis one being a cleaner, even himself he says why doesn't the mechanic wear this, you want us to wear this	Risk taking behaviour role modelling negative behaviours	g and









Appendix HTeam Leader Focus Groups- Primary Error Attribution Themes

Dialogue	Primary Error Attributions	<u></u>	
the planning was very bad on the leave this year, the planning was			3
very bad in giving the guys off	planning		ar
Because they don't budget, that's why it is not enough.	poor budgeting		a
and he needs training, he must be able to plan for himself not wait for the boss to say do this	managers lack managerial skills		gem
we got no training at this place at this stage for team leaders, because there is a certain way to handle people and speak to people and stuff like that. I think we got a lack of that.	team leaders lack the required managerial skills		ent :
because certain team leaders they got the skills and their teams	team leaders lack the		an
operate better than the one without	required managerial skills		립
that manager who runs the store needs to be trained how to buy the tools because you walk around the store there is only one or two tools while there is 24-25 tools that need to be used on the aircraft	managers not adequately skilled to do the job		Management and Team Leaders Lack Skills
I also think that they need to be trained, because you get the store man, he doesn't know how to work the computer sometimes	insufficient training to perform job adequately		aders
if the team leader has got the right skills and stuff, to motivate his team, his crew. Sometimes what happens at this stage is that their morale is a bit low and the team leader himself is negative	Team leaders lack Motivational skills		Lack S
if there is something wrong and they see the tool they can grab it and they can fix the problem and in some crews they can't finish their jobs they can't do it	inefficiencies in teams due to poor leadership		skills
	inefficient on the job training		
the other thing is training because the guy, if he had training on the job then he can do the job with self confidence and you know what you are doing to get finished in that certain time	inexperience		
but again they don't look at the skills, they don't look at the personality and stuff like that because that plays a big role in the team leaders position and so on	person job fit not given adequate consideration		Selection
the wrong guys, in the wrong positions, because for them, it is not	People not suited for their jobs		oitio
the managers they don't have to take a risk by just choosing	subjective promoting by team managers		_
choose a person for a promotion, the post must be advertised and each candidate, each and every candidate who applies for it must have theso that is just not to take somebody and put him there that will be better			Processes
they'll go according to seniority, they take the guys with pension numbers andyou get the younger guy that is interested and he doesn't get the opportunity to go on course	Inadequate selection process for training		
Some of the guys, five six years, no courses; so that demotivates them completely	Lack of training opportunities	<u> </u>	

	Primary Error
Dialogue	Attributions

then you must go look for the guy who draws the tool out if the	T	ס	ш
stores and that type of thing frustrates us	Frustration	Poor Attitudes	Employee Unhappiness
<u> </u>		~	ᅙ
there comes a time when they really want to go away, because		₽	O
they feel that they are always suffering and that they can't get away.	employee frustration	I≣	ye
		ď	Ð
if the team leader has got the right skills and stuff, to motivate his		es	
team, his crew. Sometimes what happens at this stage is that their			异
morale is a bit low and the team leader himself is negative	low morale		<u>a</u>
		1	엉
if the team leader has got the right skills and stuff, to motivate his			🕂
team, his crew. Sometimes what happens at this stage is that their			ē
morale is a bit low and the team leader himself is negative	Negativity		SS
that guy is not really interested, they are not focused to do their		1	"
job	disinterest		
that guy is not really interested, they are not focused to do their		1	
job	lack of focus		
negative rumours flying around, that brings motivation down	demotivation		
You know if you give a guy a course, that motivates himif you train			
him, that motivates him	demotivation		
Some of the guys, five six years, no courses; so that demotivates			
them completely	demotivation		
here you got a union that must go and negotiate for the increase	difficult salary increase		
and it takes about six, seven months	process		
monthsthat type of thing is definitely not good to keep a guy			
positive.	negativity		
I think that also motivates so they know the guy is for them also	low motivation		
you got one certain crew, they finishit is not correct, they are			
leaking afterwards and stuff like that and then ten crews get blamed			
for it	generalisation of blame		
it is much better but I think that on our side there is a little bit of		a	
racism here and there	racial attitudes	racism	
you know they also come out of a generation you know, they are		۱ä	
old already and it is difficult for tem to adapt to the new South		-	
Africa	Old attitudes and methods		
		Ca	
the guys are complaining about that it makes them so upset about		Ħ	
this whole system, if you are hungry after eight hours work or five	canteen not catering for	canteen	
hours you want to go up there and have a nice lunch	shifts	ĮΞ	
we have got a beautiful canteen herenot running the correct	canteen not providing		
way, there is definitely room fro improvement there	adequate services	1	
When it comes in the night shift by ten o'clock, nothing to eat,			
nothing to buy, so you have to wait until seven o'clock the next	canteen not catering for		
morning and you knock off at six o' clock	shifts		

	Primary Error	
Dialogue	Attributions	
there is nearly two three four hundred metres back to the stores		4
and you run to the stores, get to the store and find that there is no		Tools
tool, and then you must run to another store or look for people who		
are using the tools.	Unavailability of tools	
you get in our cases now, you change the component, you get		and
tools to test afterwards and we haven't got that tools, so we take	Unavailability of critical	
chance to send that thing up	testing equipment	ᇤ
you change a certain component it will take you an hour because		quipment
you haven't got that equipment you will end up sitting sometimes		횬.
eight hours battling to change that component	tools not purchased	3
	unwillingness to budget for	<u>e</u>
I think that they don't want to buy it, they got the money	tools	
because we are actually all the time under pressure to get the		
aircraft finished and out in a certain time period	Time Pressure	
in the previous years we normally do it our own, our self. And we		
use to spend more moneywhatever you send them they will	inefficient outsource	
service it for a week, and then it has to be sent back to them.	company	
between the a week, and then there to be don't back to them.	Company	
in the previous years we normally do it our own, our self. And we		
use to spend more moneywhatever you send them they will	inefficient outsource	
service it for a week, and then it has to be sent back to them.	company	
every time you want to get something fixed, you must log it, you		1
wait two three weeks, sometimes longer than that, and when you		
send it they look at it and they fix it, in a day or two and it breaks	Inefficient outsource	
again	company	

maybe they call the guys once in two three years to say you need to wear ear protectionbut they must on a regular basis. The guys must be educated, you know, regularly. They must come into you know second nature Give them the factsyou know 200 people got deaf here, you know and stuff like that, they can see it and that will make them aware of this safety Even myself, I am not aware that it is dangerous	safety reminders far apart safety not habitual insufficient fact based education campaigns lack of awareness of hazards	Safety Campaign	Communication
you get a boss or a manager, lets say a hanger manager or somethingman for many months you don't even see the guy, I believe that that guy must play a bigger role at least once a month or so, come and speak to the guys,with this rumours going around, they want to get rid of the white	low accessibility of management poor management feedback broken communication		
guysthey will have a meeting with the guys once a month, they start it for the first month and then you don't see the guys for the rest of the year againthey will have a meeting with the guys once a month, they start it for the first month and then you don't see the guys for the rest of the year againspeak to the guys the self, because every time the guys hear the team leader they all get a different story	poor communication poor management accessibility and visibility broken telephone		

	Primary Error
Dialogue	Attributions
we don't need to hear something about our company via the other	
section or via the newspaper. They need to come down and speak to	broken communication
us.	channels
you knowthat is also trueif you hear rumours like that, then it	
makes the guys also negative themselves.	rumours cause negativity

Appendix I Maintenance Staff Interviews- Secondary Error Attribution Themes

	Secondary Error		
Dialogue	Attributions		
they are so focused on getting the job done that they don't try and	trading off safety to get the	T	S
think on the safety aspects	job done	Trading	Safety Culture
supervisor can force you to do that job. With out that proper	trading off safety to get the	Ē	et
equipment	job done	9	V
	supervisors force workers to	off	5
You find that there is no mask but the supervisor can force you to	work without equipment to	S	= =
do that job	get the job done	Safety	=
trying to impress to show how you can do the job within the	trading off safety to get the	et)	Ð
prescribed time	job done		
where they might say in a way, you know, listen stuff that safety	trading off safety to get the		
equipment we need to get this done and over with	job done		
there is a lot of jobs to do, and then I carry that battery alone, or I	trading off safety to get the		
pick up something heavy just to get the job done	job done		
again I feel they are too focused on getting the job doneand they			
tend to discard all thesome of the safety aspectsI felt that he was overlooking the safety options in favour of getting	job done		
the aircraft out and not considering all the people around that were	trading off safety to get the		
	job done		
affected by his actions	ljob dorie		
the guys are pushed to get the job done, you know they are more	trading off safety to get the		
concerned about getting the aircraft serviceable then safety	liob done		
he doesn't care because the team leader or whoever is standing	trading off safety to get the		
there right behind him and he is pressed for time	job done		
most people they are obstructing the fire equipment with the	obstructing fire equipment	S	1
stands	wit stands	af	
		Safety Equipment Unserviceab	
you have to go down the stand, now you have to go through the	safety equipment not easily	<u></u>	
whole length of the aircraft there to a basin in front of the aircraft	accessible	<u>.</u>	
		ļ.	
	safety equipment not	ΙĔ	
right next to the basin, there is no water on it	serviceable	er er	
	safety equipment not easily	ı÷.	
in the corner there, that's where we pack our stands	accessible	١	
		se	
We don't even have masks if we go in the fuel tank, they got this		Š	
measurement, if it says six, you don't go in, if it is below six, you can	Safety equipment not	<u>c</u>	
go in. But now the fuel is still in, how can that be good for you.	available	<u>a</u>	
		%	
	Safety equipment	င္ပ	
because there is no mask or it is broken	unserviceable or unavailable	le/accessible	
I heard two months ago that they went into the fuel tank, there was		<u>s</u>	
one mask and three of them	Insufficient safety equipment	ಠ	
the only thing you got to do is go to the store, and ask them how		שו	
many masks. And you see how many you get	Insufficient safety equipment		

Dialogue	Secondary Error Attributions		, .
if everything is clean, you are not exposed to any hazards	unsafe work environment due to lack of cleanliness	Uns	
at about the fourth step from the top, there was this cloth, I didn't see it because I carried these things down and I slipped from there right down with the test boxes and I broke my ankle	fell down stairs because of cloth left lying on floor	Unsafe Practices	
you find there's a lot of oil on the floor and those people doesn't take care of the oil on the floor and you can slip and fall or break a leg	not cleaning up after working	ices	
if you are on a higher aircraft you can just jump on the stand and get through the over wing door, not like on the smaller aircraft where it is an emergency door, where you don't want to fiddle with it	not utilising safety equipment		
we had instances where people have got hydraulic fluid in their eyes	not wearing eye protection		
if you have time to go to the locker to pick it up, now they push you for time, now what the guys do is to just throw the chemicals there and tell you now I feel like heaven and they'll laugh about it	not using safety equipment		
well, taken in terms of legislation, people are supposed to be voted, it is a general vote on the floor generally	not abiding by legislation	Not	Em
speeding I also think is a big problem, these people they rush around, they don't consider the other people in that work area, they don't follow procedures, driving with the lights off at night	Speeding	obeyir	ploye
speeding I also think is a big problem, these people they rush around, they don't consider the other people in that work area, they don't follow procedures, driving with the lights off at night	not following procedures	Not obeying policies, procedures, regulations	Employee Culture
people should get their heads together and work according to what the book says	not following procedures	ies,	ure
if you do your job according to what the manual says, the manual will tell you listen, if you do this someone will get hurt	not following procedures	proc	
sometimes they don't wait for that thing to vent, they just want to get in there and do the job you see	not following required procedures	edu	
instead of going to the carpets and check it like we check the headsets, you come to the carpet and see if it is tight or not tight	checks not carried out to completion	res, re	
last year one of the mechanics was working in the engines, they never apply the brakes in the stand then the stand just moved unexpectedly then he fell on what you call this?	not obeying procedures	gulatic	
but I say it is the same as in my section, some people do it and some people don't	checks not carried out to completion	ns	
they take another chemical, they use the strongest chemical	ignoring regulations		
but the supervisor is suppose to see those people that are using the wrong chemical	ignoring regulations		
suppose to put the demarcation sign to say that there is oil on the floor according to the safety you are suppose to put demarcation	not obeying regulations		
they ignore the rules in fact they need somebody to push them	ignoring of rules and regulations		

Dialogue	Secondary Error Attributions	
see somebody is driving you can take it your self and drive	not licensed training to drive forklift	
people try to take shortcuts or try to push the jobhe doesn't have the training because here at the company if you	shortcutting disregarding rules and	!
see somebody is driving you can take it your self and driveMaybe a person is working with out applying breaks on the stands	regulations	
Maybe they are using cherry picker not wearing safety beltusually if time is gone they take their tools and they go and there		
is no signshe does not obey rules those peoplethat is not reported is on paperwork, sometimes you do a job, a	regulations disregard for rules	
quick job, and you don't usually do all the right paperwork you should do, but the job is done	Not doing appropriate paperwork	
you get people that do serious stuff and don't fill in paperwork, then you can have serious implications once again, time and money, because it comes to the workshop and you don't know what the hell is going on	Not completing adequate paperwork	
I recall comments made, where cowboys don't cry and things like that, and that you are a sissy if you wore a safety harness and things like that, its only men that get the job done properly	Bravado Attitudes	Poor Attitudes
Cause I want to do my job other person he doesn't want to give me chance to do my job because he is racist	time loss due to racist attitudes	titud
he will not give it to you to use that key, he'll say I'm still using it, I'm using it for eight hours. And you suppose to use the overtime to finish out the work late	time loss due to racist attitudes	es
maybe he is racist I don't knowusually if time is gone they take their tools and they go and there is no signs	racist attitudes clockwatching	
the safety rep they are talking to those guys but a person just leave now and say haai you see time is up I'm just going now	clockwatching ingrained attitudes before	
it's long time I've been working with this company, long time I'm working here eight years you can not tell me nothing	introduction of safety consciousness	
now I've seen a person carrying on, he closed hi one eye and he is trying to carry on by leaving that thing burning there and damaging his eye	not seeking medical attention	
instead of completing the job in five minutes, it will now take you fifteen minutesbecause they now dragging it on	time wastage	
some times a person take it for granted he never concentrate so not concentrating so you busy working talking to some body	lapses in attention	Humai
when you think that the supervisor doesn't saw me I wouldn't report it cause if the air craft can get a small hole, if it is flying on the top, if the air can get in there it can make the aircraft fall	employees not reporting what's seen as minor errors	Human Factors
he pulled the isolation pin out, then obviously the flaps extended and damaged the engineshe didn't forget, but he didn't think of it then	damage to engines slip of the mind	

	Secondary Error		
Dialogue	Attributions		
then it doesn't stop when you want it to stop and it runs onto the	aircraft damage and flight		
aircraft, damaging the aircraft	delays		
so people tend do rush it, they don't concentrate on their task or	lack of concentration and		
they don't observe	situational awareness		
the walk the area around where they working and they don't see a			
patch of oil or they trip over a piece of equipment or a comb, or a			
choux or something	lack of situational awareness		
I've seen him burning his arm here, three rows of blisters	Skin burns		
we use this type of foam stuff and that doesn't smell too good, and			
if you get it in you will cough a lot, and I mean if you cough it is not			
good for you.	Chemical exposure		
by the time the mechanic arranged a GPU it takes another hour,		ဂ္ဂ	
now the mechanic says to me, hey when can I start with my work, I		ğ	
say when I'm finished with my work, as easy as that because I	conflict between job tasks	ᅙ	
started first	and resources available	¥.	
but if they got a certain snag, utility bug for the fridges or		tio	
something, they must switch off the power to get the thing out, now if		Ď	
they put it off, my system bonks	and power state	ō	
		<u> </u>	
too many people working with the same systems and interacting	Competition for time, system	eg	
with one another	and space resources	ő	
they nearly bliksemmed the guy because they stole it man, if you		L L	
got a GPU on your shift, how can these blokes take it	Competition for resources	Competition for Resources	
		S	
now if they didn't spend the money, why can't they give the money			
back to the sections who need that money. Now we are always told	Look of financial vacatives		
we must save, now how can you save if you need that	Lack of financial resources		
I feel the planning peeds a bit of work in this organization	Inofficient planning	_	
I feel the planning needs a bit of work in this organisationbut I feel that in a maintenance environment like ours, like here,	Inefficient planning	ne	\$
they can plan it better	Inefficient planning	∄	l ii
ja. I think planning it better, maybe this aircraft does not have to	memorent planning	Inefficient Planning	Management Culture
fly, and it come back and stands here for a while	inadequate planning	en	e
we must send technical blokes to Germany, to inspect the aircraft	poor planning and strategic	Ť	13
before we do the work here	decisions	la	<u> </u>
before we do the work fiele	shortcutting costly in the	חח	=
then you got to do it again and then it takes another two days	long run	E.	ည
planning could improve, that is another point which I feel if I had	long run	g	<u>=</u>
the power, I'd try and plan it properly, get people involved	Inefficient planning		\subseteq
they may follow procedures where they are overlooked, like recent			0
mistake where there was one little item	and complete		
that going to make my workload more, so in essence I'm not going	and complete		
to get my work done and that's going to cause delays	Poor workload planning		
to got my work dono and that o going to dadoo dolayo	. 557 Workload planning		1

Dialogue	Secondary Error Attributions	
now while we doing this content loading there is certain checks		3
which the avionics does or sometimes the mechanic the mechanics		ar
they must switch to power or do something but now they can't		Management Injustices
because we are loading content, so there is sometimes difficulty	Conflict between job tasks	<u>je</u>
there	and resources available	₹
there is a lot of time where shifts have changed and guys have lost		Ĕ
allowances or they were in a position of authority and getting paid for		=
it but in an acting post and then ummthey didn't get a permanent	perceived injustice in	<u> </u>
post	decision making	St
a person has had a post for 18 months as a supervisor, but he is		<u>ਨ</u>
actually a second in charge, and then when say there is a change,		
you supervisor came back to his post and that guy had to take a step		
down again	appointments	
they don't communicate and because they don't talk and because		ဂ္ဂ
they are all running away to meetings and worrying about other		Ιĕ
things, they don't sit and talk to their staff to say you know this is		Communication
what I want to do	poor communication	
we got four team leaders in the IFE crew, three team leaders sit in	breakdown in	-
their office, my team leader watches TV. Every time I hear	communication between	at
something, I hear it from other people but not him	team leaders and staff	ᅙ
we don't communicate with the managers at all, so you got the		-
supervisors and the team leader	lack of communication	
		2
I don't think that those stands belong to the company, I'm not sure	Outsource company not	lts
how the company works but I think that they are maintain by LGM	performing	ĕ
its not working, we are supposed to wait for the people from LGM	time lesses	Outsourcing
to come and fix it	time losses	≌.
its not working, we are supposed to wait for the people from LGM	in officiont outpoursing	Q
to come and fix it	inefficient outsourcing	-
now we will see all the snags and who's paying, and that's where	financial losses due to poor	Poor
we make the loss, cause nobody goes to Lufthansa see	managerial decisions	윽
we make the loss, cause hobody goes to Eurthansa see	financial losses due to poor	
that's a big error there and the company loses a lot of money	managerial decisions	e
to repair our GP unit, they can't repair it anymore, now we run the	financial loss due to poor	<u>≅</u>
APU from that aircraft for six hours undisturbed	equipment management	Decisions
suddenly there is no money to complete it and it is much cheaper	long term financial savings	ns
doing this than having an APU running the whole day	not considered	
It's the duty of the supervisor to take care of this when the people	supervisors not fulfilling	m
are working it is the duty of the supervisor the make sure that they	responsibilities to make	Ľ
take care of that	workers obey regulations	oe.
those people never follow the regulations and the supervisor	supervisor and worker	₹.
himself	negligence	S.
we come in on shifts and the manager walks in here and you walk	- 3 - 3	Supervision
in here at ten past eleven, they will not even know, they don't even	Inefficient supervision and	
know when you have to start your job	management	
find the supervisor is not around and he is busy smoking a	supervisor not performing	1
cigarette, he is lingering around the technical area	duties	
		1
Most of the things happen when the supervisor is not around	supervisor not performing	
because those supervisors they are not always at the work place	duties	l

	Secondary Error
Dialogue	Attributions
	Team leader not taking responsibility for own work
I know its his job, but because it is more work for him, he is lazy	duties
we got four team leaders in the IFE crew, three team leaders sit in	
their office, my team leader watches TV. Every time I hear	Supervisors not performing
something, I hear it from other people but not him	duties
now I must go to him and ask him what can I do, instead of him	Supervisors not performing
coming to me and telling me, that's his job isn't it	duties
	staff not fulfilling
there is ten guys, five guys sit and five guys work	responsibilities and tasks

	Secondary Error	1
Dialogue	Attributions	
that is that guys responsibility to e there, and to get the flow of the		1 1
job going, some of them, they in the position and they get the money	employees not fulfilling	
and they just stand there with folded arms	responsibilities and tasks	
the job they do is paperwork and getting spares and that's it,		1 1
trouble shooting and they get, but some people they are carrying this	employees not fulfilling	
company and some people will not	responsibilities and tasks	
	Supervisors don't enforce	1 1
you get some supervisors that will overlook safety clothes	safety	
they might overlook it, but I don't think they are going to say don't	Overlooking safety	1 1
wear that otherwise	regulations	
	supervisor pressure to	1
some supervisors put pressure to say sign it and let it go	overlook procedures	
	'	1
so they always come to you with this ridiculous request, no we	unreasonable management	
need this aircraft tonight or we need this aircraft tomorrow	pressure to get the job done	
we need to place more emphasis and also across the board, on	Poor emphasis on basic	=
specific personal, you know basic sort of training	training	Inadequate
you get new guys, the apprentices coming in, all of them doesn't	<u> </u>	de
have the computer training that maybe I, or you, or whoever else	lack of proper induction and	lq
nas	training for apprentices	lat
there is a lot of people who is not even close to getting certification	3	
that are using the computers. And sometimes that will cause the	apprentices not trained to	5
computers to just bom out	use computer systems	air I
	Expose safety equipment to	Training
I found a respirator lying in the fuel tank	hazardous elements	Q
I don't think there is enough training and why I tell you is that there		1
are certain people trained that are chosen and I sometimes feel that		
the wrong people are chosen	Insufficient safety training	
l also feel that a lot of those people don't know that law	Unaware of legislation	1 1
there is a book and the manager hides it away and doesn't say you	onana. on regionation	1 1
know you have a right to seeif he doesn't tell you or you are not		
made aware of it you will never know	Unaware of legislation	
made aware of it you will nover know	Chaware of logiciation	(O
there is people that are put on course even if they have secondary	inconsistent selection	<u>ě</u>
last, so that is just the way that get chosen from the bunch	processes for training	ec
now here all of a sudden the guys on course and you don't know	inconsistent selection	Selection
why	processes for training	m
but I fell sometimes the management says, ag, we'll send that	processes for training	1
	Inappropriate selection of	
he has an interest	safety position	
ווכ וומס מוו ווונכוכסנ	parety position	

Dialogue	Secondary Error Attributions		
but there is no one who tells you this is your final warning, nothing like this	Lack of disciplinary process	Disc]
that same bloke he comes to work late everyday, there is nothing he can do about it they give him a written warning once, and then they say why don't you give him another	Lack of disciplinary process insufficient disciplinary process	Discipline and	
he starts seven o' clock, he comes yesterday twelve o' clock, he doesn't phone his team leader, nothing	employee truancy		
but if you really want to, you can find it out because you can always find who drew it from the stores, you can, but they don't we come in on shifts and the manager walks in here and you walk in here at ten past eleven, they will not even know, they don't even know when you have to start your job he gets a letter, of you don't stop this shit we will kill you. He doesn't know from where it was, now at night he can't sleep	lack of disciplinary process late coming Death Threats to team leader	Disciplinary Process	
remember the guy I told you about with the burns on his hand. I think he did go report it. And even him, he did not want any one to know that he did report it, behind our backs he went to report it	not reporting incidents	SS	
if you have a clean working environment I think you" be a whole lot happier, instead of coming to a scrappy garage where things are lying all over the place	tools not replaced in designated areas and left scattered	Tools	Inadequacies
I think you'll be able to find everything if its organised	tools and equipment not organised	Diso	qua
if you have tools lying all over the place, you trip and fall or you slip, that impacts on safety, that impacts on productivity, it impacts on your personal health	tools not replaced cause dangerous work environment	Disorganised	
if you can find everything then obviously you will work a lot quicker, instead of saying right, where did I put this, or where is that	time wastage due to disorganisation	ed	Regarding
I said listen, I don't want this piece of equipment here, get me something that's serviceable, this one must go	equipment not serviceable	Equi	ding
usually we are a lot of people with a lot of aircraft and sometimes there are ten other guys that are doing the same job that needs the same equipment and then I can't get it	Availability of equipment	Equipment	Tool
there are four of us using the one stand, if you are finished, you borrow me the stand, so on, so on, we are loosing a lot of time in fact	too few stands		ing
the leg is out or the brakes of that stand is broken, those wheels are o longer working properly	unserviceable equipment in use	rvice	and E
I don't have a problem with the thing that washes your eyes, but the ones that are working, that one doesn't have the stands in front of them, the ones on the side, ja	equipment poorly maintained or unserviceable	Unserviceable/Unavailable	Equipment
some stand that is broken is reportedmanagement doesn't take care of those stands	equipment not serviceable equipment not maintained insufficient or inadequate	nava	nent
doesn't have the proper equipment to work	equipment equipment repairs not	ilable	
maybe they repair it lateits not working, we are supposed to wait for the people from LGM	carried out on time unserviceable equipment in	ו	
to come and fix it	use]	

Dialogue	Secondary Error Attributions
there are four of us using the one stand, if you are finished, you	Attributions
borrow me the stand, so on, so on, we are loosing a lot of time in	
fact	time losses
Let's say we are using chemicals and you don't have enough	insufficient or inadequate
equipment	equipment
oquipmont	Сушринот
we changed a cable, a thick cable on the generator on one of the aircraft and we didn't have the big cable cutter and we should have so we used a hack saw and it slipped and cut his finger	tools not available
we need to fill the hydraulic reservoir quickly and there is not	
enough equipment	Insufficient equipment
then it doesn't stop when you want it to stop and it runs onto the aircraft, damaging the aircraft	equipment poorly maintained or unserviceable
I'm surprised that so many people didn't get hurt with some of the equipment we have to work on here	equipment poorly maintained or unserviceable
it can drop at any time and they don't have time to fix it	equipment poorly maintained or unserviceable
	time wastage due to conflict
its very time consuming because they can't switch the power on	for power resources
sometimes you don't have the equipment so you just do you job	Carriera and made a called
and that could cause injury to people.	Equipment not available
to repair our GP unit, they can't repair it anymore, now we run the APU from that aircraft for six hours undisturbed	aguinment not continuable
APO ITOTT that aircraft for six hours undisturbed	equipment not serviceable
and the same with the cherry pickers, some of them are dangerous to work on baskets full of oil and those kinds of things	equipment not serviceable
on the whole airways premises there is one ladder, one that can	Insufficient equipment in
reach there and they use it at majors	stores
I worked at a 747 that needed ground power, they took this GPU	
from team A because it flies tomorrow	Insufficient equipment
it's the same with these extractor fans and all, you must have at	
least three hours before you can climb in there and these things they	
don't work properly	equipment not serviceable
they got four soldering irons, battery ones and only one works, this new aircraft you can't take the bulb out and put a 28 volt soldering iron in there	equipment insufficient and not serviceable
the aircraft stands that we use to get into certain places in the	
aircraft, they re not up to standard, some of them are a bit rusted and	
broken	equipment not serviceable
I would say equipment, sometimes we struggle to get the	
equipment for the job, and then we have to make another plan and	
- - - - - - - - - -	Availability of equipment

	Secondary Error	
Dialogue	Attributions	
I would say equipment, sometimes we struggle to get the		
equipment for the job, and then we have to make another plan and	not using designated	≌.
then that could become an error	equipment	Using
		≥
we changed a cable, a thick cable on the generator on one of the		ro
aircraft and we didn't have the big cable cutter and we should have		Wrong
so we used a hack saw and it slipped and cut his finger	not using designated tools	
switch off the reading light and you can make it with masking tape	using the incorrect	Tools/Equipment
and it burns	equipment	
		lm I
now the guy will use a screwdriver, the thin one, so you see, now		<u>e</u>
they'll use this thing to hit there and this thing will slip all the time	using the wrong equipment	≒
sometimes the guy is using a screwdriver and it is not a proper		lă l
thing that can fit into hole	using the wrong equipment	<u> </u>
but I don't have a side cutter on me, I got a knife on me, so I hold it		∓
like this, and I cut my, yes sis, right open, right open now, and you		
know I missed my eye also	using the incorrect tools	
we carry out our work with the small stand and find that we are		1 1
loosing a lot of time	using wrong equipment	
sometimes you don't have the equipment so you just do you job	using inappropriate	1 1
and that could cause injury to people.	equipment	
		<u> </u>
we don't usually use this thing unless there is an inspector running		약
around, or someone that might see you. I've seen a guy who would		l c i⊓
take half an hour to an hour to get the equipment ready	inefficiency	<u>0</u> .
now we must walk from this hangar to this hangar, to find out if		
there is a ladder and that no one is using it	time wastage	Inefficiencies
most of these fancy units, they stack them so they can blow up		\ \ \
and it can cost them thousands of rands	poor equipment design	
if you take this seat electronic box, you don't know who drew this	insufficient controls to track	1 1
thing. Any bloke can take it and its gone	equipment	
to struggle and get equipment, by the time you get the equipment,		
if you work on the old day way then you will be finished before you	long process to get required	
get the equipment	equipment	
]]
you draw about three reflectors but you only use two, so with the		
spare one you too lazy, put it in your cupboard, it disappears	wastage of spares	

Appendix J Maintenance Staff Focus Groups- Secondary Error Attribution Themes

	Secondary Error	
Dialogue	Attributions	
you work in a crew and you work with gentleman and he teach you shortcutsthe most dangerous problem in an industry, or in our trade is when the junior makes decisions on short cuts	on the job training is deficient	Training
these are the allocated people that should go and they should allocate a further ten seatsfor previously disadvantaged candidates	inadequate training selection process and policies	ing and
and favouritism as well, in this company I noticed maybe in other companies as well its who you know. If you know somebody well you can get promoted without having the proper paperwork and without having the proper this and the proper that I would change planning and then you got to change attitude I would change planning and attitudes	not following promotion processes and procedures Unacceptable attitudes Unacceptable attitudes	d Attitudes
when you think that the shortcut is the only way, you don't know the correct way to do ityou usually find that people tend to report more serious errors and the smaller ones are overlooked.	shortcutting overlook minor errors	
at some stage the error might sneak in because you are so stressed out	bad stress	
they are realistic if proper planning was implemented to make	ı	_

they are realistic if proper planning was implemented to make sure	inefficient planning	Pla
imagine you have a delay, all these things have a ripple effect, in four hours all these things will cost you two million rand, but imagine	3	Planning
if you invest another thousand rand, you might save five delays in that period	short-sighted budget planning	
this here is planning, its down to mismanagement	mismanagement	and
you know it comes down to proper planning	inadequate planning	
come on man, if you haven't worked it how can you understand what it is, work it, go physically study it, just don't make a decision because you think that it's the right one, you know its small things.	uninformed decision making	Strategic
there is about 70% or 80 % of mechanical people that doesn't have one course on there name or certification	poor workforce planning	
bad planning and that's how errors creep in, it is a couple of things adding up together	Poor planning	Interventions
I would change planning and then you got to change attitude	Poor planning	<u>e</u>
I would change planning and attitudes	Poor planning] ≓.
bad planning and that's how errors creep in, it is a couple of things adding up together	Multiple errors regularly	ons
there are a lot of times that they punished the oke that makes an error but they don't look at what caused the error	not considering factors surrounding errors	
there is like ten or twenty people all making errors and they all form this chain and at the end you get this serious effect with the chain of events	not considering contributing factors	

a	Secondary Error		
Dialogue	Attributions		
basically when you put planning you must put support, support		Support	Tools,
system, because planning and support goes with procurement via		ᅙ	0
the whole	Poor support services	8	S
what they don't say is that for these factors to be accomplished in		구	ш
that time, these factors have to be in place, which is not for us	inefficient support structure		qu
our planning, basically any department, our whole support structure, if you want a spare it takes sometimes like 20 minutes, half and our, if you want to fault findyou must look at world class organisations with the support structures and facilities to back it up.	inefficient support structure		quipment and
If you want this ladder from this store, it must be there, if you want this crimper, like we work with crimpers, it has to be there. You can't go for crimper and now you doing your job and the store man just says that some guys might have taken the only one	depleted stocks of tools and equipment	Tools	Job
this is a multimillion dollar industry, one crimper for the whole airline, then you have to go look which guy got it there, it doesn't make sense	availability of tools		Task Support
because there is only one, the oke thinks that he might not get it tomorrow so he leaves It in his box	depleted tool store		oddi
at the end of the day you become more adamant, why are you taking so long with your jobwhen the tools aren't there.	unavailability of tools		ĭ
why must we be dependent on a depleted tool store?	depleted tool store		
so the proper strategy is to have the proper tools, not just one tool	depleted tool store		
using a certain ear protection that when we put that thing on you still hear the noise, so we are complaining to our management	safety equipment does not sufficiently protect		
this crimper you are looking for, and this tool and that and you get to that airplane	unavailability of tools		

because the team leader that suppose to do this motivational thing		\leq
or function to motivate their team, they not trained in motivational	Team leaders lack	a
speaking or what.	motivational skills	Mana
some guys don't know how to speak, they don't know the human	managers lack the human	g
element of the job and to make it worse, they don't know the financial	and financial managerial	ne
element of the job	skills	gement
I would agree that a lot of managers lack the knowledge that they	managers lack managerial	Ĭ
need for fulfilling the management post.	knowledge and skills	-
You know these oke, they rather fight fires than prevent fires	reactive management	
What's it, ummreactive measures as compared to	reactive management	
our managers need proactive management, they don't even know		
how to put a fire off. They don't know how to put a barrier around that		
veld to not allowthe fire doesn't jump to that part	reactive management	
There is a lot of managers that just sit around playing solitaire the		
whole day.	Managers not performing	
you got assholes like us who carry, do his job, so he can get paid,		
so that at the end of the day, if he can't make a plan, we will make a		
plan to get it done	management loafing	
actually the way they manage, they manage us so that we are not		
desperate	inefficient management	

Appendix K

	Secondary Error	
Dialogue	Secondary Error Attributions	
Dialogue		-
	old equipment not	Eq
age is a problem with them, some of them are not serviceable	serviceable	⊑.
because of the time constraints with airplanes to get them	utilising unserviceable	宫
serviceable, you are forced to work with such equipment	equipment	Equipment Unserviceable
they never have depent equipment for you to say all we see this i		≅
they never have decent equipment for you to say, ok, we see this i		I⊑
a problem, these stands are not equipped to be on there	Equipment not serviceable	าร
maybe its better to take the rags that we use to clean the aircraft		18
and a selotape so that at the corner of those ladderso even if a	Faviament net well	l ∂ .
person can bump the aeroplane mystically they will not damage the aircraft	Equipment not well maintained	l è
	mamamed	를
change the type of equipment we use so that I will look at each		Ф
section and say listen, what is the type of equipment you use, is it	Insufficient equipment	
serviceable, what is the calibration time with it, are they all calibrated	Insufficient equipment maintenance controls	
do we require new equipment		-
that one is not in a good condition	Equipment not serviceable	-
there is some equipment that is very dangerous	dangerous equipment	1
not being well serviced	Equipment not well maintained	
how is it that some of them, that are like 30 years old, which is	mamamed	-
arely standing on wheels any more	Equipment old	
dately standing on wheels any more	Equipment old	
	availability of tools and	equipment
as I said to you, tools and equipment was one of the issues	equipment	J≒∵≌
for some reason there is no monitoring of this equipment, for some		lă 8
reason I don't see them as actually looking at this equipment and		Q
saying hey, this is a potential problem	Poor equipment monitoring	ļ∓ <
we don't need to go looking for such equipment when we use it,	equipment not available	
his is another factor, we always have to go looking for stuff.	when needed	equipment
runner bay, they use to take the airplanes there just to run the		9
enginesthey can erect another bay so that there can be	Not enough runner bays	S
first of all you are looking for spares. Are there spares? No there	Not enough fulfile bays	1 5
are no spares. Ok. Right, so can you fix it?	Shortage of spares	"
They'll buy the aeroplanes and they will not buy the tools, that's not	Shortage of spares	1
normal and they will not buy the spares for it.	lack of tools and spares	
official and they will not buy the spares for it.	lack of tools and spares	1
It just doesn't get fixed because they don't have the right spares.	lack of tools and spares	
Safety method, improper safety equipmentimproper safety	lack of tools and spares	_
attitudeserrors in documentation and work on aircraft.	Improper safety equipment	S
working on top of aircraft with impropernot the correct safety	Improper safety equipment	√ <u>`≅</u> ;
equipment	Not using correct equipment	9
ત્રવાણાના he might have to go and obtain the correct tools, now that might be		님
ne might have to go and obtain the correct tools, now that might be a schlep here. He has to work and he might be lazy to walk and	·	Using Incorrect Equipment
1 ,	I loing the incorrect tools	re
hings like that.	Using the incorrect tools	유
the leatherman, you know this multitool, a hell of a lot of people us		Ш
t, because it is not the right tool but it does the job.	job	占
		<u>p</u>
		١Ħ
So now you have to go to another place, unless you end up standing on a chair or a table or something silly like that.		J.
	Utilising incorrect equipment	-

	Cocondony Error	I	
Dielogue	Secondary Error		
Dialogue	Attributions		_
maybe its better to take the rags that we use to clean the aircraft		Design	
and a selotape so that at the corner of those ladderso even if a		<u>8</u> .	
person can bump the aeroplane mystically they will not damage the	Environment de sieux flavored	gn	
aircraft	Equipment design flawed	_	
that rubber it does not take long and we see that	Equipment design flawed	ł	
lt just doesn't get fixed because they don't have the right spares.	defects not repaired		
mak union and manage and an area and area area.	Not using equipment		
not using equipment correctly. It damages the equipment all the time.	correctly Damage to equipment	ł	
it damages the equipment all the time.	Damage to equipment		
	poor communication to	n	C
you know that somebody else was in the area and he got it in his	others in environment of	19	9
face by accident and I think that could be a problem.	safety risk	Communication Regarding	Communication
somebody is approaching an engine being washed down and he is	poor communication to] [ΙŽ
not aware that the engine is being washed down and all of a sudden	others in environment of	۱	I _n
he is in the vicinity	safety risk	<u>a</u>	<u> </u>
Yes. There is no warning out to say these chemicals are being	Poor warning regarding	l Si	ä
utilised	chemicals in use	_	<u>e</u> .
But when it comes to chemicals, I personally have not seen any		ᇛ	Ĭ
notices to say that such chemicals are used or dangerous chemicals	Poor warning regarding	Š	
are in use, please adhere to the safety precautions.	chemicals in use	130	
	No clear warning of	1 📑	
can get	dangerous environments		
	Poor communication of	四	
when they are retracting the flaps, some of them they don't even	dangerous situations to	≦.	
say anything	others in environment	5	
we could mark certain areas with placards and very visible		13	
recognisable, known markings	Insufficient safety markings	Environment	
I believe it is anything from communication, if you take the number		=	
of times guys have been exposed to paint stripper when painting	poor communication		
people don't communicate with each other	Lack of communication		1
people don't communicate with each other	Lack of confindingation	General	
if you are in that shift cycle and it is a public holiday, what is going	Poor communication of	l e	
to happen, you are liable to work, or is another crew liable to work	policies	ä	
to happen, you are hable to work, or is another crew hable to work	Poor communication and	-	
Basically it is communication, he has either not the ability or does	knowledge of communication	<u>o</u>	
not know who to contact to say I'm finished with the aircraft	process	₹	
they become grape vine issues or issues discussed in safety	Poor communication to	12	
meetings, so its not very well known.		≣.	
Umm, where it can happen is when procedures has been changed.	grassroots	Communication	
Like recently we changed the water decontamination system of the		Ē	
aircraft, we changed the disinfectant agent and there was some	poor change management	ĭ	
errors	and related communication		
011010	and related communication	1	
an old chemical, it has got its own quantities to be used and the			
new chemical has got different quantities to be used and the			
chemical has got different quantities and different tests to be used	poor communication and		
and they were handling the new chemical on the old principle	training about changes		
but to have one bunch of guys trying to save money would appear	Training about Changes	1	
that there are other guys who are living off the fat of the lamb. That's	Dissonance in company		
the other thing that I would definitely sort out.	regarding cost saving		
une outer triing that I would definitely Soft out.	regarding cost saving		J

	Secondary Error		\Box
Dialogue	Attributions		
it could have been prevented by a checklist, if the correct		D	
documentation was issued in a checklist for it, it would have been		00	
prevented	Inadequate documentation	Documentation	
how do you interpret what you're reading there, do I interpret it in	A collision that of all a companies that is a	ıer	
the same way.	Ambiguity of documentation	ıta	
Documentation that could come from the manufacturer of the		Ė	
aircraftwe'll from the manuals that they give you to do it in. You find	Funcio in consult managements	ĭ	
some errors and there is a way of reporting them.	Errors in work manuals		
Safety method, improper safety equipmentimproper safety attitudeserrors in documentation and work on aircraft.	Francia decumentation		
attitudeserrors in documentation and work on aircraft.	Errors in documentation		
if it is out of control in my area, there is nothing that I can do about	No avenues to address	Ш	0
it	issues that arise	3)Ţ
well, it basically comes down to time, not only pressure, pressure to		9	ja
go home	Clockwatching	υye	<u>5</u> .
at two o' clock I got to go home, some people seem to have		ф	S
forgotten that maybe you can work that extra ten minutes, its not		⋜	₹.
going to kill you to complete the job.	Clockwatching	Employee Motivation	S C
as far basically two thirds of the day they are not available, they	Medical treatment available	/at	<u> </u>
so for basically two thirds of the day they are not available, they		<u>o</u>	0
cater for a very small part of the day.	for small portion of the day	ם	트
look for whatever reason its there, you got a lot of unhappy people on the airline	Employee unhappiness		Organisational Culture
they were going to renovate our tea room, its not been done, its	1 2 3 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2		P
been going for three years now.	Poor work environment		
well, it is their attitude	poor employee attitudes		
disillusioned, much more disillusioned than anything else for			
various reasons	Disillusionment		
we need to be trained for that, and that white one hasn't been	Racial discrimination in rules	D]
trained	to operate equipment	İSC	
you cleaners you have damaged the airplane, even not knowing	Scapegoating and blaming	<u>≍</u> .	
that we have done that	lesser qualified employees	⊒.	
	Class discrimination in	na	
Because he is an electrician they just leave him or her	operating equipment	Discrimination	
but a black can do a mistake, I mean the spoken words of the		Š	
talking are differentthe other one has to be shouted at, the other	Treated differently on a basis		
one not	of race		1 1
How many times you've seen the general manager or Coe riding	.	Sa	
along talking on his cell phone.	Driving with cell phone	afety	
they just take that plastic or cloth with the chemicals inside the dust		₹	
bin or for the dustbin that maybe you just finished drinking cold drink		B	
or what not	Unsafe disposal of waste	ļ,	
like for instance the chemicals we are using is an	Chaminal average	V	
errorsometimes it gets in the eyesit happens from time to time where people do not wear the	Chemical exposure	Behaviours	
	Not wearing prescribed	Jr.s	
prescribed safety measured equipmentPeople might walk past a puddle on the ground and people might	safety equipment	•	
	Fluid left upglooned		
clean it up themselvesif someone has to walk in the hangar now, you find the APU is	Fluid left uncleaned		
powered up and there are people without any ear protection	Not wearing ear protection		
they don't stick to the roads, they drive into aeroplanes	reckless driving		
they have to put what we call pit soapat that particular place	Tookiess driving		
because maybe if there is a engine leakage	Do not cover spills		
Doodago maybo ii tiioro ia a originio leakaye	Do not cover apilla	l	1 1

	Secondary Error		
Dielogue	_		
Dialogue	Attributions		
the man is not wearing safety gear, you haven't got time to go and			
get it	Not wearing safety protection		
we have to wear the ear protectors but most of us they don't			
even	Do not use ear protection		
even if you give it to a person, they just put it in the pocket	Not wearing ear protectors		
they say if ever you make sure you are wearing a safety beltthey			
don't	not wearing safety belt		
	Not utilising required		
Doesn't even have this umm safety suction pad	equipment		
he is just working on top of the flaps, he is just working the way he	not following protocol to work		
wants	on aircraft		
	Not using gloves when		
some of them they don't even use the gloves	handling chemicals		
,	Ğ		
sometimes your technicians are not following their work regulations		IJ	D
to the rule	Not following regulations	<u>_</u>	ũ
between the guy that did the preparation of the engine and the guy	5 - 5	Rules, regulations	Rules,
that did the boroscope and the closure of the engine, somehow the		<u>,</u>	ပွ
cover was left off, resulting in the engine shutdown and the return to	Engine cover left off resulting	ЭЭ.	7
ground.	in in-flight shutdown	<u>u</u>	<u>Ö</u>
it shouldn't happen because there is a check list for this type of	in in hight chataewii	at	\Box
thing	not following checklist	Ö	9
tillig	That following checklist	ns	<u> </u>
due to certain regulations being contravened	Contravention of regulations		regulations,
due to certain regulations being contravened	Contravention of regulations	and	
I would imagine there are small infringements of the rule all over		5	<u>a</u>
I would imagine there are small infringements of the rule all over	Dula infrincementa	ďζ	and
the place, but not necessarily risk related infringements as such	Rule infringements	Procedures	<u></u>
we might not follow whatever they tell us because we just want to	Laura vica e af laura a adulus	ed	procedures
do that work quickly	Ignoring of procedure	<u> </u>	00
I can ask a person can you drive a forklift, I don't have to look	Driving forklift without	es.	ě
whether he has a certificate or not	certificate		υp
there should be no one else there, it should be the person who is	People in hangars when	Contravened	T
starting or operating it	running engine	1	Š
they just take that plastic or cloth with the chemicals inside the dust		e,	
bin or for the dustbin that maybe you just finished drinking cold drink		/ei	
or what not	Ignoring regulations	Je	
they are not doing what the company has said, they are not	ignoring of procedures and	٥	
following the procedures or the rules	rules		
disobeying do not walk signs on the wing	Disobeying rules		
in some cases people don't do the necessary checks			
properlythey seeing what they want to see, it could be a panel			
that's not closed properly	Not doing proper checks		
Not pride in their jobs, not proper time keeping, arriving to work late	Late coming		
we got some specific sheets and if the okes don't apply the sheets	-		
then mistakes come	Not following procedures		
forget to put the container to collect the water that's falling out and	<u> </u>		
then he forgets to clean up	Not following procedures		
so we assume that they know these things, we assume that they			
are going to clean up after themselves.	Not obeying company rules		
then he might go and get it, but tomorrow it is the same thing			
again	not obeying instructions		
agaiiiii	not obeying mondenons		
so this quick little bypass of the standard regulation is a problem	bypass of regulations		
o this quick little bypass of the standard regulation is a problem	Dypass of regulations		

	Socondon: Error	l .	_
Dielogue	Secondary Error		
Dialogue	Attributions		+
I believe if the guy had any sort of discipline in him, he'd think about it	Poor discipline		
to prevent all those things people will have to be disciplinedit is			
always an ongoing process just to talk to the person, talk to the	Weak disciplinary	Discipline	
person talk to the person.	procedures	<u>Ö</u> .	
	Weak disciplinary	<u>≅</u>	
the best thing if ever you can just discipline a person right away	procedures	ne	
if it is a mechanic or a technician bump the aircraft not seen by anyone	not taking responsibility for actions		
I think that time is the main creator of a problem over there, I can		⊑	P
not think of anything else at this time	Time pressures] 국	
they do overload workers with heavy work	heavy workload	ea	\
some of the work doesn't even performed	Work incomplete	Unreasonable	Poor Management
	<u>'</u>	<u>8</u>	na
amongst those aircraft there is a time you see, and then we are not managing to do that	Work incomplete	e P	gei
	·	reg	
	Time a length consideration	188	Į,
December of the pressure	Time and work task	Pressure	🕇
Because of the pressure	pressures to get job done		-{
l adhere to the rules of ventilation for eight hours, if they have not	Time less	Unnecessary Wastage	
down timed the aircraft for that, it is not my responsibility.	Time loss	E E	
there might be a ground power used that is running unattended and someone will take the trouble to shut it down		ဂ္ကိ	
Someone will take the trouble to shut it down	GPU running unattended	Š	
you walk past in the hangar, there is a pile of components lying on		<u>ă</u>	
the floor, they are lying in the rain. Does he first of all drag them out of		٧	
the rain and say to somebody, hey! This is your department.	Wastage	 	
you find that there is a lot of screws, rivets, and lots of little things,	vasiage	SE	
components, lamps, that are taken from the store that's sometimes		ac	
not utilised	wastage of components	e	
over a year it will accumulate to at least a couple of thousand or	madage of compensions	1	
hundred thousand dollars I would say, because there is stuff there			
that we work in dollars and each little lamp there costs twenty cents	financial loss due to wastage		
or a dollar	of components		
They don't train the juniors coming through and this I feel is a factor	'	₹	1 1
that actually causes errors to be carried out	Poor on the job training	Inac	
	Learning with lack of	de	
because I learnt unfortunately to do it on my own though	guidance	l 2	
	Unfair selection processes	at	
I'm not always sure that selecting for training is always 100% fair	for training	dequate Knowledge	
it comes down to basic trainingand its supposed to be instilled	Basic safety habits not	O	
and you supposed to move on, its supposed to be instilled	instilled	<u> </u>	
they physically splash, taking the bucket and throwing it on it, I	in Guilleu	ed	
mean there is no finesse with it. No drip tray, you need to place		ge	
underneath to catch out all the stuff.	Poor work method	<u>a</u>	
andomodal to outon out all the stall.	lack of knowledge and	and	
it is the ignorance of the person	awareness	ΙΞ	
Safety method, improper safety equipmentimproper safety		<u>a</u>	
attitudeserrors in documentation and work on aircraft.	Incorrect safety method	⊒.	
Safety method, improper safety equipmentimproper safety		Training	
attitudeserrors in documentation and work on aircraft.	Improper safety attitudes	_	
annous and a desire in a desire in a montant of a moral.	p. opor carety attitudes	ı	1 1

Dialogue	Secondary Error Attributions		
Education does not play too big a factor in the airline at the moment, I might be wrong but I don't believe so.	Company does not reward the enhancement of qualifications, skills, abilities		
but you not given the opportunity, I could be qualified to do what you doing right now, but how many times do we use that person.	Employees full repertoire of skills not utilised		
he might have an N6 and somebody else has an N2 but do they get paid the same. They get paid the same.	Advanced qualifications not rewarded and recognised		
and the guy with the N2 might be the technician and the other guy is now the craftsman who is a lower grade totally.	Advanced qualifications not rewarded and recognised		
planning of work is one of those major problemsAlways the problem here is, that the time they schedule the aeroplanes is not very flexible with everyone	work planning poor planning and scheduling	Planning	
you will have the people rushing around because you can't cope with the planning problem on the down time of aeroplanes so that you can get all these things done in the proper mannerbut then you say where does this come from, so obviously	poor planning and scheduling	ng	
somebody has messed up or forgotten about that, that is where the errors areI adhere to the rules of ventilation for eight hours, if they have not	Inefficient Planning		
down timed the aircraft for that, it is not my responsibility. some of these people can not handle pressure and they can not	Inefficient Planning	Man	
handle stress, they cannot delegate work and this is a big problemgetting to each management specifically of each section, looking at	lack of management skills	agem	
their stats and the people that they know are working in a section, and they mostly don't know who works for them, lets be honestit is important for you to know who is working for you to know what	Lack of management knowledge of employees	ent Sk	
is their status, what is their qualifications and what they can do with it, what are their capabilities.	Lack of management knowledge of employees	ills an	
he would talk to you one on one. 99 percent of the time he knew your name, he knew what you did. And he was able to comment about what is going on anywhere	Weak appreciation of employees	d Deci	
he would talk to you one on one. 99 percent of the time he knew your name, he knew what you did. And he was able to comment about what is going on anywhere	Weak management awareness of grassroots	Management Skills and Decision Making	
if he wasn't in my area or one of my guys, or one of the minor maintenance guys, I don't know what his manager will do, or if he'll even bother.	Poor supervision and management	laking	
How many times you've seen the general manager or Coe riding along talking on his cell phonesomebody has made a decision on a higher level to say, that will	Management not leading from the front Decisions not give due		
happen, and have not looked at any of the consequencesthey don't deal with merit either, they don't look at merit and they don't look at experience. Prior to all this, it was like a decision that the	consideration		
manager had taken upon himself to promote people within his section	Injustice of Promotional Process		
I believe that the air line is spending more money on things then they ever had, but there is always things that seem to get skipped.	Perceived budgeting weaknesses		

Dialogue	Secondary Error Attributions	

Appendix L Team Leader Focus Groups- Secondary Error Attribution Themes

	Secondary Error	
Dialogue	Attributions	
he doesn't follow the steps of the paperwork properly, that is an error to me	Not following procedures	цre
sometimes you have to skip a step or something when you change something, like the wheel when you under pressure to get it	not following steps in	Breaking the
changed Because they is using the wrong thing, they damage the component, they damage a pipe	procedure using the wrong tools	gın
I have to take a vacuum cleaner that vacuums an office because it will not pass, it will not give the aircraft exactly what is neededyou get in our cases now, you change the component, you get tools to test afterwards and we haven't got that tools, so we take	using incorrect equipment Sending aircraft into service	e Law
chance to send that thing upalso we African, just go to the toilet, take the handle out, don't know where to	without proper testing Vandalism and theft	
they put on a new toilet seat and it disappeared, I can't believe it where it is going to	Vandalism	
if they say seven o'clock and the guys come a quarter past seven and the flight has to go out at half past seven, no one can make it	late coming	
over there you got more tools in your toolbox than this place got in the stores! You got one tool in the store and you got 19 crews that's running and you go to the stores, it is not available,	depleted tool stock insufficient tooling to crew ratio	looling and
there is not enough stands and the stands are not high enough and you got one stand and you got twelve aircraft, and you got four engines and you got one stand that fits	insufficient stands to match needs	y and
we normally use the GPU, just to give us the power, and they battle because there is not any GPU's	insufficient GPU's	Eduibilielir
we had nine GPU's here, now we only got two and the others they can't fix	Shortage of Equipment	5
a lot of times you go to the store, there is only one item, but there is ten guys working with the same item, because you need the same item that day	insufficient supply of tools	ב
•		_
he doesn't follow you or he doesn't understand you right and he does the wrong thing	Mis-Communication	ON
we feel sometimes that it is definitely they can make a plan to keep the aircraft longer on the ground, especially if you have snags	inefficient planning	
people are in leave andthere is not enough manpower to carry out the job	inefficient manpower planning	
I think there is bad management, that is my honest opinion. If you got 50 aircraft and you got two cherry pickers as service support	Bad Management	

	Secondary Error	
Dialogue	Attributions	
Because they is using the wrong thing, they damage the component,		8
they damage a pipe	damage to equipment	as
Because they is using the wrong thing, they damage the component,	financial losses due to	wasiage
they damage a pipe	damage to equipment	Œ
it will take me more than three to four hours for me to take the		
vacuum cleaner that they use in the offices and to change the plugs because they are not the same with the aircraft plug also	time wastage due to unavailability of equipment	
and usually I must get the electrician or the technician to do it for me because I am a cleaner, I don't know how to do it	time wastage due to unavailability of equipment	
there is nearly two three four hundred metres back to the stores and you run to the stores, get to the store and find that there is no tool, and then you must run to another store or look for people who		
are using the tools.	Time wastage	
you change a certain component it will take you an hour because you haven't got that equipment you will end up sitting sometimes eight hours battling to change that component	time wastage due to tools not being purchased	
and they take a risk to start the aircraft on the APU. It is where the major loss (comes) they use more fuel rather than using the GPU.	wasteful error compensation	
the APU can use sometimes 500kg of fuel an hour and sometimes they are standing here between eight and twelve hours, the aircraft. Where you can have a GPU that runs on diesel	financial losses	