













Pare Pare	eto Analysis and	Diagram
A Toasty O's plan	t is having some problems v	vith their product:
	Problem	Number of boxes
	A. Inferior printing on boxes	10,000
Q (25)	B. Overfilling of boxes	30,000
	C. Boxes damages during ship	oping 2,000
0	D. Inner wrapper not sealed	25,000
	E. No prize in box	50,000









	Group Problem
It is 12-45 AM in the morning, Ma aground on the Bilgh Reef and is gallons of oil have been lost and A meeting with the emergency re dispatched to remove the remain compartments from which oil is h the reef, it could capsize if the oil The use of chemical dispersants to sink is suggested. However, magnitude. The marine biologist chemicals are in the water, they industry. The use of floatable booms to su the spill size, there is not enough office asys the available material The Coast Guard argues that the the slick movement in the fjord. De protected by the boom or the related issue is that millions of fis fjord two weeks from now. Other meeting.	In the second se

Group Problem						
Major Concerns	Sub-Concerns	Timing	Trend	Impact	Process	
Prevent more oil from spilling (remove remaining oil)	Number of damaged Compartments	L	L	М	DA	
	Tanker slipping off reef and capsizing	Μ	Н	Н	PPA	
Dispersing spilled oil	Environmental concerns	Н	Н	Н	DA	
	Availability of chemicals	Н	L	Μ	PA	
Containing oil spill	Availability of floating booms	Н	Н	Н	PA	
	Channel slick in fjord	Н	Н	Н	DA	
	Protecting island shore	L	М	L	DA	
	Protecting fisheries	Н	Н	Н	DA	





## Group Problem

The four members of the Adams family live east of Memphis in a middle-class community. Tom Adams commutes to work in downtown Memphis; his commute is 45 miles each way, and he is not in a car or van pool. Tom has been thinking about looking for a job closer to his home. However, he has been working for more than a year on a project that, if successfully completed, could lead to a major promotion at his current company. Unfortunately, there is a major defect in the product; this error has yet to be located and corrected. Tom must solve the problem in the very near future because the delivery date promised to potential customers is a month away.

Tom's financial security is heavily dependent on this promotion because of rising costs at home. Both of the Adams children need braces for their teeth, Tom needs a new car (it broke down twice on the freeway this past fail), the house is in need of painting, and there is a water leak in the basement that he has not been able to repair.

Sarah, Tom's wife, is a civil engineer. She has been considering getting a part-time job, but there are no engineering jobs available in the community. Full-time positions are available in Memphis, but accepting one would pose major problems with respect to chauffeuring and managing the children. There are a few day-care centers in the community, but rumor has it they are very substandard. In addition, last year the Adams's son Alex was accepted as a new student by the premier piano teacher in the area and there is no public transportation from their home to his studio. Netliss, the Adams's daughter, is very sad at the thought of giving up her YMCA swimming team and her Girl Scout troop, both of which meet after school.

Carry out a K. T. situation appraisal for the Adams family's predicament.

	Group	Probl	em		
Major Concerns	Sub-Concerns	Timing	Trend	Impact	Process
Tom's work	Projects				
	New job				
Financial problems	Braces for kids				
	New car				
	Paint house				
	Water leak in basement				
Sara getting a job	Managing children				
	Finding part-time job				







A REAL	No.	KTI	Problem	Analysis	
		IS	IS NOT	DISTINCTION	CAUSE
What	Identify	What is the Problem?	What is not the Problem?	What is the distinc- tion between the is and the is not?	What is a possible cause?
Where	Locate	Where is the problem found?	Where is the problem not found?	What is distinctive about the different locations?	What is a possible cause?
When	Timing	When does the problem occur? When was it first observed?	When does the problem not occur? When was it last observed?	What is distinctive about the different in timing? What is the distinction between these observations?	What is a possible cause? What is a possible cause?
Extent	Magnitude	How far does the problem extent?	How localized is the problem?	What is the distinction?	What is a possible cause?
		How many units are affected	How many units are not affected	What is the distinction?	What is a possible cause?
		How much of any one unit is affected?	How much of any one unit is not affected?	What is the distinction?	What is a possible cause?





The same number of attendants contacted the rash on each flight.

In addition, a few of those who contracted the rash felt ill, and the union threatened action.





## **KT** Problem Analysis

	IS	IS NOT	DISTINCTION
What	Rash	Other illness	External contact
When	New planes	Old planes	Different materials
Where	Flights over water	Flight over land	Different crew procedures
Extent	Only some attendants	All attendants	Crew duties

Look at all the distinctions:

a) something contacting the arms and face

b) the rash occurs only on flights over water

c) the life vests on the new plane are made of new materials or of a different brand of materials















KT Decision Analysis Example							
MUSTS Adequate flow control Acceptable appearance	Paint Go Go	<b>Right</b> ວ	New S	Spray	Gun Ho No Go Go		
WANTSWeightEasy service7Durability6Low cost4Experience4	Rating 2 8 3 9	Score 14 48 12 36	Rating 9 6 7 2	Score 63 36 28 8	No Go		
Total		110		135			







КТ	Deci	sion	Analy	vsis E	Exam	ple
MUSTS 3 Credits Inexpensive	Music 101	Art 101	HISH 201	Art 203	GEOL 101	Music 205
WANTS Good grade Interesting Low time commitment Total						





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Pro	bblem Dolalysis	on Analysis re are we?) ecision nalysis	Potential em Analysis
Deterrich	KT Potentia	al Problem Analysis	
Potential	KT Potentia Possible	al Problem Analysis	Contingent
Potential Problem	KT Potentia Possible Causes	al Problem Analysis Preventive Actions	Contingent Actions
Potential Problem A.	KT Potentia Possible Causes 1.	I Problem Analysis Preventive Actions	Contingent Actions
Potential Problem A.	KT Potentia Possible Causes 1. 2.	I Problem Analysis Preventive Actions	Contingent Actions
Potential Problem A. B.	KT Potentia Possible Causes 1. 2. 1.	al Problem Analysis Preventive Actions	Contingent Actions





🖇 кт	Poten	tial Pro	blem A	nalysi
Potential Problem	Consequence	Probable Cause	Preventive Action	Contingent Action
No return of plant or animal life	Environmental mess – in trouble with environmental groups	Sterilized beach too much	Use less abrasive cleaning chemicals	Reintroduce life to the area
Oil becomes lodged deeper in the sand	Continued contamination of the beach	Pressure from cleaning equipment	Use lower setting	Conduct oil recovery
Contamination of water table	Illness to area residents	Improper use of equipment	Use only well trained workers with experience	Clean up the area water table



## Group Problem

**Potential Problem Analysis** 

"New Chicken Sandwich" page 176-177

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🛱 кт	Poten	tial Pro	blem A	nalysis
Potential Problem	Consequence	Probable Cause	Preventive Action	Contingent Action
People don't buy sandwich	Company loses money	Too spicy	Perform taste tests	Serve sauce on side in hot/mild varieties
		Too expensive	Compare unit cost with competition	Run promotional specials
		Name scares potential customers	Take survey	Change name
Bacteria in food	Lawsuits, loss of customers	Mishandling of chicken by employees	Don't allow employees to contact raw chicken	Perform periodic inspections

