Failure Modes and Effects

Failure Mode	Local Effect/s	Global Effect/s
Unpredicatable mechanical failure resulting in halting of vehicle	Causes vehicle to veer off track	Car crashes
	Whiplash is caused to the driver	Driver injured
	Crash with other nearby drivers	
Unpredicatable mechanical failure without vehicle stop	Drivers don't realise the car is malfunctioning	As above but with potential increased probability if not alerted of malfunction
	Other's as above	
Incorrect tyre fitting in pit lane	Tyre come loose, reducing steering	Crash
	Tyre comes off completely	Pit crew injured
Spectator movement outside of permitted area	Spectator distracts driver	Terrorist attack
	Spectator aids in terrorist attack	Spectator injured
	Spectator enters an unsafe area	Crash
Speeding in pit lane	Less time to react to sudden activity change in the outer pit lane	Pit crew injured
	outer pit raine	Crash
	Harder to judge entry speed into inner pit lane	
Statistical feedback (ect) broken	Little or no meaningful feedback from car to team	Higher chance of other faults not being detected
Team radio broken	Little or no meaningful feedback from car to team	Higher chance of other incidents not being noticed by driver
Poorly executed overtaking manouever	Structural damage to car creating debris	Crash
	Driver placed in compromising situation	Debris damage other vehicle indirectly causing another crash
	Car veers off track	
Punctured tyre	Reduced steering	Crash with another car
	Tyre debris on road	Car beached
		Car impacts with debris
		Debris injure someone in the vicinity
Safety car mechanical failure	Car continue at high speed	Crash due to high speed
		Crash due to not knowing about the track
		danger

Failure Modes and Effects

Driver fatigue	Driver's reactions slowed	Crash
False start	Close cars travelling at very different speeds	Crash
Terrorist attack	N/a	Ranging from zero consequence to large number of deaths and damage to track