RISK in SAIL TRAINING





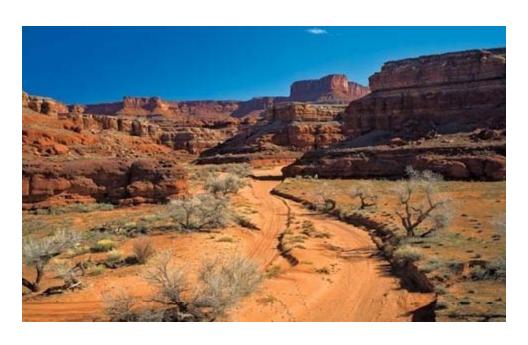
Risk Management Training Tools

- 1. Incident/Accident Studies
- 2. Modified Aviation Check Lists
- 3. Risk Tolerance

"Learn from the mistakes of others;

There isn't enough time to make them all yourself."

Eleanor Roosevelt



Special Report: A Death at Outward Bound

After heatstroke claims a student in Utah's Canyon Country, the 46-year-old institution faces America's shrinking tolerance for risk.

Sources of Accident Cases
www.avalanche.org
www.nautinst.org/mars
www.americanwhitewater.org

OPERATIONS RISK ASSESMENT

By Captain Walter Rybka –modified from Civil Air Patrol check list

- 1. HUMAN FACTORS
- 2. MISSION and ENVIRONMENTAL CONSIDERATIONS
- 3. VESSEL CONDITIONS
- 4. INSTITUTIONAL SUPPORT

Operations Risk Assessment

1. Human Factors

	Factor/ Hazard	Low Risk	Pt.	Moderate Risk	Pt.	High Risk	Pt.
CAPTAIN	Experience	>5 yrs. command time	х	2-5 years		First Command	
	Training	License higher than required	х	Minimum license		Unlicensed or new min. license	
	Time in type	Previous season in same ship	х	Previous time in similar		New to this rig	
	Health	Athletic level of fitness	х	Health ok- but sea legs not current		Illness	
	Rest	Well rested	Х	Some fatigue		Very tired	
OFFICERS	Experience	>5 yrs. and some command time		2-5 years	X	First-time watch officer	1000110017000
	Training	License higher than required		New and minimum license	Х	Unlicensed or low license level	
	Time in type	Previous season in same ship	х	Previous time in similar	Х	New to this rig	
	Health	Athletic level of fitness	x	Health ok- but sea legs not current		Ilfness	
rate at tensamon	Rest	Well rested	Х	Some fatigue		Very tired	

2. Mission and Environmental Considerations

Factori		T	1	,		
Factor/ Hazard	Low Risk	Pt.	Moderate Risk	Pt.	Hìgh Risk	Pt.
Circadian Timing	Day sails		Passage- making 24hr/ day ops.	х	Unscheduled night operations	
Schedule	Plenty of con-tingency time	х	Adequate but little slack		Unrealistic	
Voyage length	Day sails		2-5 days	Х	Longer than a week	
Route	Protected waters		partially protected or coastwise	х	Oceans	
Familiarity	Regular route recent experience	х	Have been here before- long ago		New	
Traffic	Low volume/ recreational	х			Large vessel lane or fishing grounds	
Navigational Hazards	Open water		Some rocks & shoals, but ample room, and well marked	х	Congested area	
Geographic	Weather shore/ alt. to leeward		Exposed shore, shelter available	х	Lee shore, no good ports	
Time to shelter	Less than 4 hrs.	Х	4-24 hours		Over 24 hours	
Visibility	Clear		Haze, vis. <5		Fog/ Heavy	

3. Vessel Condition

Factor/ Hazard	Low Risk	Pt.	Moderate Risk	Pt.	High Risk	Pt.
Inspection	Exceeds requirements for intended service		Meets C.O.I. min.	x	Uninspected or with C.O.I. deficiencies	
Subdivision	Exceeds 1- compartment		Meets 1- compartment	×	Col. Bulkheads only or no subdivision	
Fire Protection	Meets H		Meets T or SSV	x	None	
Stability	Exceeds requirements for intended service		Meets requirements	x	Unknown or substandard per inspection class	
Sea- worthiness	Fit for high latitude, ocean		Coastwise or partially protected	x	Protected Waters	
Equipment	Exceeds requirements/ Excellent condition		Adequate per COI	×	Deficient in amount and condition	
Vessel Construction	Steel				Wood	×

RISK TOLERANCE

YOU STAFF/CREW PARTICPANTS



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