

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 ASSESSMENT

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	X	2-5 years		First Command	
	Training	License higher than required	X	Minimum license		Unlicensed or new min. license	
	Time in type	Previous season in same ship	X	Previous time in similar		New to this rig	
	Health	Athletic level of fitness	X	Health ok- but sea legs not current		Illness	
	Rest	Well rested	X	Some fatigue		Very tired	
OFFICERS	Experience	>5 yrs. and some command time		2-5 years	X	First-time watch officer	
	Training	License higher than required		New and minimum license	X	Unlicensed or low license level	
	Time in type	Previous season in same ship	X	Previous time in similar	X	New to this rig	
	Health	Athletic level of fitness	X	Health ok- but sea legs not current		Illness	
	Rest	Well rested	X	Some fatigue		Very tired	

2. Mission and Environmental Considerations

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

RISK TOLERANCE

YOU

STAFF/CREW

PARTICIPANTS



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