

RRSRC Addendum 10 - Risk Table Complete Listing

1: ON WATER BOATS

#	What might happen	Likelihood	Consequence	Inherent risk level	Controls	Residual risk level	Responsible person	Comments
1.1	Capsize (routine but could escalate see below)	Almost certain	Minor	Moderate	Learner sailors must complete capsize drill within first three weeks. Any person refusing to do so are not permitted to continue with the course.	Low	Instructor	Established practice.
					Rescue boat driver training to cover capsize and possible escalations.	Low	Principal	Ongoing, established procedure.
					Life jackets worn by all sailors	Low	Instructor	Established practice.
1.2	Capsize: person tangled or trapped underneath boat	Likely	Catastrophic	Extreme	Sufficient rescue boats. Knives & cutters to be carried on rescue boat.	Moderate	Rear Commodore. Rescue boat Skipper.	Established practice with constant vigilance during each sailing session.
					Rescue Boat driver & Crew procedures and training	Moderate	Principal. Instructor.	Ongoing, established procedure.

1.3	Capsize: crew separated from boat.	Likely	Catastrophic	Extreme	Capsizes are monitored by support boats. If boats don't right quickly, support boat investigates and rescues.	Moderate	Rescue boat Skipper.	Established practice with constant vigilance during each sailing session.
					Sailors are trained to grab something as boat capsizes. Capsize drill in first three weeks.	Low	Instructor	Ongoing, established procedure.
1.4	Capsize: panic (in water).	Possible	Catastrophic	Extreme	Life jackets worn by all sailors	Low	Instructor	Ongoing training, established procedure
					Attendance of rescue boat if dinghy not righted immediately	Moderate	Rescue boat skipper & Instructor	Established practice with constant vigilance during each sailing session.
1.5	Capsize: sharks nearby.	Possible	Catastrophic	Extreme	Increase support boats and move in amongst the fleet. Proceed immediately to capsized boat and stay with it.	Moderate	Rescue boat skipper & Instructor	Established practice with constant vigilance during each sailing session.
1.6	Sailor injured during capsize.	Possible	Catastrophic	Extreme	One support person with First Aid training during Sailing event	Moderate	Instructor. First Aid Officer	Ongoing, established procedure.

					First Aid kit on Rescue Boat	Moderate	Rear Commodore. Rescue boat skipper	Ongoing, established procedure.
					Record of incident & equipment used safety kits checked at end of each race day.	Moderate	Instructor Head Instructor Principal	Ongoing, established procedure.
1.7	Boat unsailable, or loss of crew	Possible	Moderate	Moderate	Fix on water where possible, or tow to nearest land	Moderate	Rescue boat skipper	Ongoing, established procedure.
1.8	Boat not seaworthy, sinks or becomes unsteerable.	Possible	Moderate	Moderate	Rescue sailors as priority	Low	Rescue boat skipper	Ongoing, established procedure.
1.9	Hypothermia contracted by sailors and race officials.	Possible	Catastrophic	Extreme	Suitable clothing must be worn. Including warm clothes and waterproofs where appropriate.	Moderate	Instructor Rescue boat skipper	Ongoing, established procedure.
1.10	Near drowning	Likely	Catastrophic	Extreme	One support person with First Aid & CPR training during Sailing event	High	Instructor First Aid Officer	Established practice with constant vigilance during each sailing session.
					Defibrillator in club.	High	First Aid Officer	Ongoing, established procedure.
					First Aid, Defibrillator & CPR training for dealing with situation	High	First Aid Officer	Ongoing, established procedure.

1.11	Unforeseen severe weather changes (makes rescue more difficult).	Likely	Major	Extreme	Training is not started or abandoned if winds exceed predefined limits.	Moderate	Head Instructor Instructor Rescue Boat skipper	Ongoing, established procedure.
					More support boats if required in higher wind strength.	High	Instructor Rescue boat skipper	Ongoing, established procedure.
					If caught out, skippers are instructed to sail to nearest land or capsize boats and sit on top.	High	Instructor. Skippers.	Ongoing, established procedure.
1.12	Collision with other boat; damage to boat.	Likely	Moderate	High	Clear pre-on-water instructions, learners trained in give way rules.	Moderate	Instructor Skipper	Ongoing, established procedure.
					Sailors trained not to rely on other boats; avoiding them. If in doubt avoid.	Moderate	Skipper Instructor	Ongoing
1.13	Collision with any boat; injury to sailor.	Likely	Major	Extreme	Learners trained in give way rules. Keep fingers inside boat.	Moderate	Instructor	Ongoing, established procedure.
					One support person with First Aid & CPR training during Sailing event	High	Instructor. First Aid Officer	Established practice with constant vigilance during each sailing session.
					First Aid, Defibrillator & CPR training for dealing with situation	High	Principal First Aid Officer	Ongoing, established procedure.

1.14	Inexperienced or disabled boats running aground; damage to boat.	Possible	Moderate	Moderate	Area of the sailing is defined with regard to wind conditions and skill level of sailors. Communication with the rescue boat is available at all times. Welfare of sailors is a priority. Boats to be retrieved later	Low	Head Instructor. Instructor. Rescue Boat skipper.	Ongoing, established procedure.
1.15	Fire/explosion on Rescue Craft from petrol ignition while on the water.	Possible	Major	High	In date fire extinguisher carried on all boats with electric ignition. No smoking on support boats.	Moderate	Rear Commodore. Rescue Boat skipper	Ongoing, established procedure.
1.16	Injury from entanglement with boat propellers.	Likely	Major	Extreme	Propeller guards to be fitted to all rescue boat motors	Moderate	Rear Commodore. Rescue Boat Skipper	Ongoing, established procedure.
					Rescue boat drivers are trained to turn off motors when within 1m of swimmer.	Moderate	Rescue Boat skipper	Ongoing, established procedure.
1.17	Swimmers injured by support boats heading to course or during rescue	Likely	Major	Extreme	In all situations, boats maneuvering near a shore, leaving or returning to shore are to exercise caution when in close proximity to members of the public.	Moderate	Rescue Boat skipper	Ongoing, established procedure.

1.18	Sailors missing	Likely	Moderate	High	Pre and post-race counts and sign on/off procedures.	Moderate	Instructor Rescue Boat skipper	Ongoing, established procedure.
					Sailors to notify club if someone pulls out of a race and returns unescorted	Moderate	Skipper & Crew Rescue Boat skipper	Ongoing, established procedure.
1.19	Inexperienced sailors participating beyond capacity,	Likely	Moderate	High	Training Levels, less experienced sailors - numbers limited	Moderate	Instructor	Ongoing, established procedure.
1.20	Sunstroke / sunburn / dehydration	Likely	Moderate	High	Sunscreen provided in club.	Moderate	Instructor Skipper & Crew Rescue Boat	Ongoing, established procedure.
1.21	Skipper over-board from a training boat leaving untrained sailors onboard.	Likely	Minor	Moderate	Ensure rescue boat is within range at all times. Brief the trainees of the possibility of this event. Ensure they are aware of the need to release all the sails to stop the boat.	Low	Instructor Skipper & Crew Rescue Boat	Established practice with constant vigilance during each sailing session.
1.22	Marine creatures (sharks, stingrays, jellyfish) in the water	Likely	Moderate	High	Rescue Boat crew & Instructor to be vigilance during each sailing session. Rescue boat to be in water & operational. Trained First Aid person at the club	Moderate	Instructor Rescue Boat	Risk Sheet agreed to by members during sign-up process.

2: RISKS TO RESCUE OPERATIONS

#	What might happen	Likelihood	Consequence	Inherent risk level	Controls	Residual risk level	Responsible person	Comments
2.1	Mechanical breakdowns / gear failure resulting in not being able to provide effective rescue capabilities.	Likely	Major	Extreme	Boat maintenance procedures. Multiple rescue boats available. Rescue craft must meet Marine Safety requirements.	Moderate	Rear Commodore Instructor	Established practice
2.2	Lack of safety / rescue equipment	Likely	Major	Extreme	Checklist before boats start and with missing items reported.	Moderate	Rescue Boat Skipper Instructor	Established practice
2.3	Insufficient rescue boats available.	Likely	Major	Extreme	Numbers of dinghies allowed to participate reduced if insufficient boats available.	Moderate	Principal. Instructor.	Established practice
2.4	People manning rescue boats inadequately trained.	Likely	Major	Extreme	All boat drivers have boat licence and have club specific rescue training.	Moderate	Principal, Commodore Rescue Boat skipper.	Established practice
2.5	Sufficient trained & Licensed people each week for rescue boat.	Likely	Major	Extreme	Register of people with boat licence and have club specific rescue training.	Moderate	Principal, Commodore	Established practice
2.6	Loss of communications.	Likely	Major	Extreme	Working radios carried on all rescue boats. Radio Check before departure.	Moderate	Rear Commodore Rescue Boat skipper	Established practice

2.7	Fall overboard/ injured while laying or collecting buoys	Likely	Major	Extreme	Must be two people for large marks. Control speed for weather & Tide. Extra care taken in poor conditions.	Moderate	Rescue Boat skipper. Instructor	Established practice.
2.8	Fire, burns or property damage from refueling power boats or petrol tanks	Likely	Major	Extreme	Refueling to occur outdoors. No smoking. Not near hot engines / other ignition sources.	Moderate	Rear Commodore. Rescue Boat skipper.	Established practice.
2.9	Musculoskeletal, long term injury from lifting.	Likely	Moderate	High	Heavy weights moved on trolley/hand cart. Use correct lifting technique. Ask for assistance.	Moderate	Rear Commodore. Instructor Rescue Boat driver	Established practice.

3: PRE- AND POST-SAILING ACTIVITIES CARRIED OUT BY CLUB MEMBERS AND LEARNERS

#	What might happen	Likelihood	Consequence	Inherent risk level	Controls	Residual risk level	Responsible person	Comments
3.1	Injury from falling objects in rigging area	Likely	Moderate	High	Monitor activities as sailor's setup & return. First aid kit in clubhouse. Trained first aid person at club.	Moderate	Instructor	Established practice
3.2	Injury from tripping on equipment	Likely	Moderate	High	Monitor activities as sailor's setup & return. First aid kit in clubhouse. Trained first aid person at club.	Moderate	Instructor	Established practice
3.3	Musculoskeletal injury or injury from dinghies falling while placing them in storage racks.	Likely	Major	Extreme	Adult to assist and supervise placing of dinghies in racks.	Moderate	Instructor Assistants	Established practice
3.4	Collision with bicycle on path in front of club	Likely	Major	High	Learners are instructed to stay off path and look before crossing it. Instructor monitors it	Moderate	Instructor. Assistants.	Established practice
3.5	Injury from slipping on ramp	Likely	Minor	Moderate	Wooden ramp is coated with non-slip	Moderate	Rear Commodore	Established practice
					Learners are warned about slippery concrete ramps lower section	Moderate	Instructor	Established practice

4: GENERAL CLUB OPERATIONS

#	What might happen	Likelihood	Consequence	Inherent risk level	Controls	Residual risk level	Responsible person	Comments
4.1	Heart attack at club	Likely	Catastrophic	Extreme	Defibrillator provided in clubhouse. CPR and First Aid training provided	High	Instructor First Aider present	established procedure
4.2	Poor communication to emergency services providers, resulting in delay in emergency treatment.	Likely	Catastrophic	Extreme	Emergency numbers and access details for club located adjacent to First Aid Kit in the Club	Moderate	Principal. Commodore. Rear Commodore.	established procedure
4.3	Psychological injury from child abuse.	Likely	Major	Extreme	Child protection guidelines followed. Coaches and adults exposed to one-on-one child training situations to obtain Working with Children check.	Moderate	Principal. Commodore. Child protection officer. Instructor.	Established practice.
4.4	Lack of appropriate First Aid equipment	Likely	Major	Extreme	First Aid kits in the Club and on the boats regularly monitored.	Moderate	First Aid officer Rear Commodore.	Established practice.
4.5	Lack of appropriately qualified First Aid officer(s) present, resulting in poor injury management.	Likely	Major	Extreme	Club regularly checks list of persons trained in First Aid.	Moderate	Principal. Commodore First Aid officer	Established practice.
4.6	Damage to property or people resulting from the Club catching fire from upstairs source.	Possible	Catastrophic	Extreme	Fire extinguisher, fire blanket located in kitchen area. Regular checks of equipment.	Moderate	Rear Commodore	Established practice.

4.7	Damage to property or people due to bushfire.	Unlikely	Catastrophic	High	Sailing activities cancelled if threat to club serious.	Moderate	Principal. Commodore. Head Instructor	Established practice.
4.8	Not On-The-Water events such as venue hire and Club functions.	Possible	Catastrophic	Extreme	Responsibility lies with the Club Member responsible for these non-routine events who shall be the designated as Instructor	Moderate	Person in charge of activity.	Established practice
4.9	Injury while carrying out repairs or maintenance at the Club	Likely	Major	Extreme	A separate assessment of planned tasks is carried out prior to each Working Bee. Certified trades persons are used for high risk tasks	Moderate	Rear Commodore	Established practice
4.10	Petrol ignites causing property damage or personal injury.	Likely	Catastrophic	Extreme	Petrol not decanted indoors. Funnel used, no smoking. Appropriately labelled flammables cabinet. No petrol stored outside cabinet. No ignition sources near flammables cabinet.	Moderate	Rear Commodore	Established practice
4.11	Electrocution using electrical tools in wet conditions.	Likely	Catastrophic	Extreme	Earth leakage protection. Rules not to use electrical equipment which is wet or in wet area. Use of battery tools.	Moderate	Rear Commodore Club members	Established practice
4.12	Musculoskeletal, long term injury from lifting.	Likely	Moderate	High	Heavy weights moved on trolley/hand cart.	Moderate	Rear Commodore Instructor Club members	Established practice

					Use correct lifting technique. Ask for assistance.			
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