



Australasian Road Rescue Organisation Inc

<http://www.arro.org.au>

PO Box 1029, Newport, Vic 3015, Australia
Telephone: (03) 9008 0027 Facsimile: (03) 8677 2508
Email: arro@arro.org.au

President: Steve Rothwell

Secretary/Treasurer: Glen Maule

Australasian Rescue Challenge Risk Management Plan

This risk assessment and management plan is designed to identify risks and current controls associated with the conduct of Australasian Rescue Challenges. It also identifies the strategies that will be implemented to minimise and mitigate the residual risks associated with the conduct of the challenge. The ARRO Challenge Coordinator is responsible for ensuring the ARRO Technical Committee in conjunction with challenge hosts, from year to year, review the risk assessment.

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Review by: March 2013

No.	Operation / activity / work environment and its identified hazards	Risk controls (if any) currently in place	Risk Assessment - Initial			Recommended risk controls	Action by:	Completion Date:	Risk Assessment - Review		
			Likelihood	Consequences	Risk Rating				Likelihood	Consequences	Risk Rating
1	Injury to rescuer (Physical, psychological)	<ul style="list-style-type: none"> Entry Form – Unit of competency PPE Hydration 	D	3	7 Low	No further risk controls are considered necessary			D	3	7 Low
2	Injury to casualty	<ul style="list-style-type: none"> Selection criteria Briefings – casualty requirements form Casualty Manager Appropriate Clothing & PPE Assessors (Safety Officers) responsible for casualty during scenarios 	D	3	7 Low	No further risk controls are considered necessary			D	3	7 Low
3	Injury to assessor	<ul style="list-style-type: none"> PPE Knowledge Experience Training Briefing 	E	3	6 Low	No further risk controls are considered necessary			E	3	6 Low

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4	Injury to spectator	<ul style="list-style-type: none"> Overall Safety Officer Barrier/Cordon Control Assessor awareness of crowd On site first aid 	E	2	3 Neg	Ensure that barriers are placed at an adequate distance from activity to ensure that there is no possibility of a spectator being injured	Host Event Director	Prior to start of activity	E	2	3 Neg
5	Injury to pit crew	<ul style="list-style-type: none"> Experience Position descriptions Safety Officer PPE briefing Duty time limitation 	D	3	7 Low	No further risk controls are considered necessary			D	3	7 Low
6	Fluid/Gas leaks	<ul style="list-style-type: none"> Fluids drained from vehicle Spill control Vapour free vessels– fuel tanks Fluid management – equipment Safety glasses, gloves, visors 	D	3	7 Low	Briefing to all parties to advise that although all fluids have been drained from vehicle, a small risk still exists	Host Event Director & ARRO Tech C'tee	Prior to start of activity	D	3	7 Low

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8	Vehicle stability	<ul style="list-style-type: none"> Scenario settings/design Use of props Pit crew Team intervention Assessors/ Safety Officers 	E	4	11 Sig	<p>No further risk controls are considered necessary.</p> <p>Scenario Manager responsible for ensuring scenarios are safe.</p>	ARRO Scenario Manager	During construction	E	4	11 Sig
9	Undeployed SRS ¹	<ul style="list-style-type: none"> Scenario preparation “Manage By distance policy” Vehicle construction training Teach “Expose & investigate” 	D	3	7 Low	No further risk controls are considered necessary			D	3	7 Low
10	Security	<ul style="list-style-type: none"> Security guards/compound to protect assets Team manager/ Reserve responsible for team valuables Vehicle preparation 	E	1	1 Neg	No further risk controls are considered necessary			E	1	1 Neg

¹ It is understood that the vehicles used in the road rescue challenge are new vehicles and are likely to be fitted with SRS

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11	Equipment failure/Damage/Loss	<ul style="list-style-type: none"> • Training • Maintenance • Selection of equipment • Inspection and approval 	E	3	6 Low	Participants to be reminded during briefing to wear all PPE including eye protection whilst using hydraulic equipment	ARRO Chief Assessor	Prior to start of activity	E	3	6 Low
12	Legal liability	<ul style="list-style-type: none"> • Entry form • Agreement by each team's Chief that they are participating in an authorised activity • ARRO has public liability Insurance 	E	1	1 Neg	No further risk controls are considered necessary			E	1	1 Neg
13	Food poisoning/ Hydration	<ul style="list-style-type: none"> • Bottled water on site • Assessors encourage teams to hydrate • Use recognised vendor (certified) • Ensure hand washing facilities available on site and appropriate reminder signage 	E	3	6 Low	No further risk controls are considered necessary			E	3	6 Low
14	Infectious diseases	<ul style="list-style-type: none"> • Vehicle preparation • Hygiene policy • All teams double glove • First aid provider uses appropriate techniques 	E	3	6 Low	Sharp edges of vehicles to be protected after cutting to minimise the risk of skin / glove / uniform penetration	All rescuers, Safety Officer	As required during activity	E	3	6 Low

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15	Injury management	<ul style="list-style-type: none"> First aid on site ARRO and host incident reporting protocols First aider provided 	E	2	3 Neg	No further risk controls are considered necessary			E	2	3 Neg
16	Speed of work leading to an injury	<ul style="list-style-type: none"> Training Controls by Assessors No advantage for speed – participants briefed on this Best practice promoted 	E	3	6 Low	No further risk controls are considered necessary			E	3	6 Low
17	Integrity (Favouritism)	<ul style="list-style-type: none"> Policy Assessor training and assessment Assessor mentor program Assessor panel selection 	E	1	1 Neg	No further risk controls are considered necessary			E	1	1 Neg
18	Competitive nature	<ul style="list-style-type: none"> Policy Quality Learning 	E	1	1 Neg	No further risk controls are considered necessary			E	1	1 Neg
19	Unsafe work practices	<ul style="list-style-type: none"> Rules and policy Safety Officers Assessors Training and competency Scene assessment Tool knowledge 	E	3	6 Low	No further risk controls are considered necessary			E	3	6 Low

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20	Carcinogens/Hazmat exposure	<ul style="list-style-type: none"> Safe use of products (MSDS) Site clean up process Vapour purging in tanks 	E	3	6 Low	No further risk controls are considered necessary			E	3	6 Low
21	Reputation <ul style="list-style-type: none"> Organisation Participants 	<ul style="list-style-type: none"> Policy/Rule – Code of conduct Understanding that the event is a learning activity “No discrimination” approach to involvement 	E	1	1 Neg	No further risk controls are considered necessary			E	1	1 Neg
22	Not capturing learnings	<ul style="list-style-type: none"> Policy Post event survey Results published Industry wide uptake of ideas Quality of service delivery improves 	E	1	1 Neg	No further risk controls are considered necessary			E	1	1 Neg
23	Adverse weather	<ul style="list-style-type: none"> Indoor venue preferred Liaise with Bureau of Meteorology Professional experience of organisers 	E	2	3 Neg	No further risk controls are considered necessary			E	2	3 Neg

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24	Inappropriate PPE	<ul style="list-style-type: none"> Must be signed off by Chief Officer of each participating agency Must meet relevant standards 	E	3	6 Low	Participants to be reminded during briefing to wear appropriate PPE at all times whilst participating in the event	ARRO Chief Assessor	Prior to start of activity	E	3	6 Low
25	Inappropriate behaviour towards casualties (Founded, unfounded)	<ul style="list-style-type: none"> Rules Briefing of teams "No Duff" policy Reporting and investigation policy Resolution of grievances? 	E	1	1 Neg	No further risk controls are considered necessary			E	1	1 Neg
26	Fork Lift vs Pedestrian incident	<ul style="list-style-type: none"> Traffic management plan Licensed operators Safety induction for all personnel Hi-viz vests, safety footwear, hard hats and other appropriate clothing Restricted access to traffic area 	C	4	18 high	Personnel reminded at daily briefings of risks and need for PPE and high situational awareness	ARRO Chief Assessor and Safety Officer	Prior to start of activity	D	4	12 Sig

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27	Vehicle preparation incident	<ul style="list-style-type: none"> Licensed operators Safety induction for all personnel Hi-viz vests, safety footwear, hard hats and other appropriate clothing Restricted access to work areas Constant supervision by other members of the Scenario Team when performing each work task 	C	4	18 high	<p>Personnel reminded at daily briefings of risks and need for PPE and high situational awareness</p> <p>Constant supervision by Scenario Manager or delegate</p>	Scenario Manager and Safety Officer	Prior to start of activity	D	4	12 Sig

Risk Rating for each hazard/risk (pre- and post- risk controls) calculated by applying the Likelihood, Consequences and Risk Matrix tables below.

LIKELIHOOD Step 1: How likely is it that injury, illness or impact on the organisation(s) could result from exposure to this hazard?

CATEGORY	VIEWED AS	MEANING
A	Inevitable	Almost certain to occur
B	Likely	Could very easily occur
C	Possible	Could occur under some circumstances
D	Unlikely	Could occur only under exceptional circumstances
E	Remote	Highly improbable under any circumstances

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CONSEQUENCES Step 2: What are the potential consequences (worst case scenario)?

CATEGORY	VIEWED AS	MEANING
1	Negligible	No injury, harmful health effects or environmental impact
2	Minor	First aid treatment only and negligible environmental impact
3	Significant	Medical treatment or significant environmental impact
4	Major	Fatality, serious injury or serious environmental impact
5	Catastrophic	Multiple fatalities or major environmental impact

RISK MATRIX Step 3: Cross-reference LIKELIHOOD and CONSEQUENCES categories from the tables above.

		CONSEQUENCES				
		1	2	3	4	5
LIKELIHOOD	A	10	15	22	23	25
	B	9	14	20	21	24
	C	5	8	13	18	19
	D	2	4	7	12	17
	E	1	3	6	11	16

RISK RATING Step 4: The number in the Risk matrix gives you a 'rating' for each risk assessed.

RISK RATING	RISK ASSESSED AS
1 – 5	Negligible
6 – 10	Low
11 – 16	Significant
17 – 22	High
23 – 25	Extreme

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