

Reference	Competitions
Location	Competition Venues
Activity	UKMARS robot contests including Line Following, Drag Racing, Wall Following and Maze Solving.

Record of Reviews				Likelihood and Severity Ratings and Guidance						
Date Review Completed	Reason for Review	Risk Assessor	Severity Rating (SR)			Likelihood Rating (LR)				
14/02/2023	First Assessment	Ian Butterworth	1	1 None		Highly Unlikely				
			2	Minor Injury or illness	2	Unlikely				
			3	Over 7 Day Injury or illness	3	Possible				
			4	Major Injury or illness		Likely				
			5	Fatal	5	Highly Likely				

Risk Evaluation Matrix								
P x S = Risk	Severity (Outcome)							
	1	2	3	4	5			
Probability	5	5	10	15	20	25		
(Likelihood)		Mod	Mod	Sig	High	High		
	4	4	8	12	16	20		
			Mod	Sig	high	High		
	3	3	6	9	12	15		
		Low	Mod	Mod	Sig	Sig		
2		2	4	6	8	10		
		Low	Low	Mod	Mod	Mod		
	1	1	2	3	4	5		
		Low	Low	Low	Low	Mod		

High 16 - 25	High Risk - Unacceptable Control measures must be introduced to reduce the degree of risk prior to the activity/ process proceeding.
Significant	Significant Risk – Priority Action Required
12 - 15	Immediate review of controls must be undertaken, interim controls may be necessary in order for activity/process to continue.
Moderate	Moderate Risk - Tolerable
5 - 10	Activity/process can continue, but additional controls may need to be introduced to further reduce the risk prior to start of task
Low	Low Risk - Acceptable
1 - 4	Risk is being adequately controlled; but further control measures may further reduce the risk.



Hazard	Who Might Be Harmed	Existing ControlMeasures (if any)	Initial Risk Rating			Additional ControlMeasures (if required)		Final Risk Rating		
			SR	LR	Risk Level		SR	LR	Risk Level	
Trips and Slips	Spectators and Competitors		2	3	6	All attendees made aware that there are a number of tracks and timing gear on the floor. People to look out and not run.		2	4	
Soldering and maintenance	Competitors	All competitors construct their own robots and are aware of safe practice. Under 18s are accompanied by a responsible adult.		2	4		2	2	4	
Electrical shock	Spectators and Competitors	Mains powered equipment in the competition area is subject to formal visual inspection and if over 3 years old subject to PAT.		1	3		3	1	3	
Electrical shock	Competitors	Competitors own equipment subject to their own safety checks.	3	2	6	Remind competitors to visually check mains powered equipment before connecting to the supply.	3	1	3	
Moving robot	Spectators	Competitions are supervised by UKMARS timekeepers keeping spectators away from moving robots.	2	2	4	Remind competitors to take care when performing practice runs.	2	1	2	



UKMARS

Hazard	Who Might Be Harmed	Existing ControlMeasures (if any)	Initial Risk Rating			Additional ControlMeasures (if required)		al Ri	sk
	. Id. III.Gu				Risk Level				Risk Level
Moving Robot	Competitors	Competitors familiar with safely operating their own robots. Under 18s are accompanied by a responsible adult.	2	1	2		2	1	2
Fire Emergency	Spectators and Competitors	At the start of the event all attendees are briefed on Emergency Procedures and the location of escape routes.	3	1	3		3	1	3
Abuse of under 18s	Spectators and Competitors	All under 18s have an identified responsible Adult for safeguarding. Safeguarding controls are implemented by the Parents/School/Club in accordance with their risk assessment. Attendees are advised in advance if there are non-binary toilets or other facilities that need to be included in their risk assessments.			n/a				n/a
Coronavirus Infection	Spectators and Competitors	National guidelines and instructions are followed. There are no additional risks introduced by the activities of the event.			n/a				n/a



Action Plan Risk or Activity **Additional Controls and Actions required Action Owner** Target Date Trips and Slips All attendees made aware that there are a number of tracks and Chairman Event date. timing gear on the floor. People to look out and not run. Electrical Shock Remind competitors to visually check mains powered equipment Chairman When before connecting to the supply. entries are registered. Moving robot Remind competitors to take care when performing practice runs. Chairman When entries are registered.

Name	lan Butterworth
Position	Chairman
Signature	Ian Butterworth
Date	14/02/2023