

RISK ASSESSMENT OF: Extrication challenge - Pit preparation

PREMISES

EQUIPMENT

✓

VEHICLE

✓

SYSTEM OF WORK

✓

RISK ASSESSMENT BY: H Crampton

DATE COMPLETED: 13/7/2023

DISCIPLINE LEAD SIGN OFF: Ian Taylor 19/7/2023

DATE FOR REVIEW: after competition

Notes:
 See separate risk assessment for Logistics and Extrication Competition
 Control of public/spectators is covered by a separate risk assessment.

TASK	HAZARDS IDENTIFIED	WHO MAY BE HARMED AND HOW?	EXISTING CONTROLS	IS THE RISK ADEQUATELY CONTROLLED? (YES / NO)	ADDITIONAL CONTROL MEASURES & COMMENTS	SECTION / PERSON RESPONSIBLE
Preparing Pit area/Setting up for next team	Movement of heavy plant/FLT	Drivers, participants, Volunteers UKRO assessors Vehicle/pedestrian collisions. Impact injuries, crush from vehicles	Drivers are qualified, experienced, and authorised to drive. Familiarisation for any driver who requires it prior to using the vehicle. Speed limit in place Area for manoeuvring is appropriate for the task and with physical barrier to segregate public. Vehicle marshals in hviz to ensure area is free from pedestrians when vehicles are moving Safety briefing for Pit crew	Yes		

			<p>Pits being prepared are segregated from pits being used for challenge. Minimum size of pits is specified and allows for manoeuvring</p> <p>Safety brief for volunteers prior to start. Pit crew volunteers are competent operational staff working alongside UKRO logistic team, who are experienced in logistics for the competition</p> <p>Driver is aware of what is around them</p>	Yes		
<p>Preparing Pit area/Setting up for next team</p>	<p>Instability of vehicles being transported</p> <p>Movement of vehicle against stops or on forks</p>	<p>Drivers</p> <p>Participants</p> <p>Volunteers</p> <p>Serious injuries from vehicles sliding from FLT/plant or dropping from stops causing traps, impact injuries causing FLT/plant to turn over</p>	<p>Plant checked to ensure it is suitable for the loads and work required. Plant size is specified to host Service</p> <p>Information from UKRO teams on scenarios in advance so lifting plans can be put in place by Logistics team</p> <p>Safe working load, forks required length, and attachments required within lifting plan. Security of load designed as part of plan.</p>	Yes	<p>Ensure host sends PPE requirements to volunteers and check made that manual handling training is recent/in date.</p> <p>Briefing includes manual handling techniques, lightening loads, breaks and rotation if work hard, and weather warm or inclement</p>	

			<p>Lifting plans in place to ensure all drivers are aware of the requirement for specific vehicle positions and how this is carried out safely</p> <p>Competent supervision in place where considered appropriate for lifting operations.</p> <p>Logistic team are experienced and competent at preparing and moving vehicles for the competition</p> <p>Driver's vision is clear</p>			
Preparing Pit area/Setting up for next team	Instability of FLT/plant due to incorrect loading	<p>Drivers/logistic team Participants</p> <p>Volunteers/pit crew</p> <p>Overturning of heavy plant leading to crush injuries</p>	<p>FLT/plant driven by authorised drivers.</p> <p>Only UKRO logistic team will position vehicles for scenarios. Logistic team supervised by competent slingers</p>	Yes		
	Load on FLT/plant instability of vehicles being moved into positions	<p>UKRO logistic team participants</p> <p>Volunteers/pit crew spectators</p>	<p>Competent person to supervise lifts</p> <p>Lifting plan</p>	Yes		

Preparing Pit area/Setting up for next team		Vehicles could move, slide, bounce or roll uncontrollably leading to serious crush injuries	<p>Logistic team are experienced at moving vehicles into positions</p> <p>Lifting plan. When vehicle has to be placed on side or roof, care will be taken to avoid the vehicle rolling or bouncing. Use of strops rather than forks to give more control</p> <p>Spectators are at distance deemed safe from pits, with barriers in use</p>			
	Accessing vehicles for specific scenario and returning vehicle	<p>Logistic team</p> <p>Pit crew volunteers</p> <p>spectators</p> <p>Vehicle/pedestrian interface leading to crush injuries</p> <p>Vehicles moving during transit or whilst being stropped</p>	<p>Storage area for used vehicles not accessible to public and only to authorised UKRO logistics team</p> <p>Logistic team are competent and supervised by competent/experienced slinger</p> <p>Vehicles are stored in order and numbered so that they are easily accessible for scenario</p> <p>Vehicle's position is known so that most appropriate</p>	Yes		

			<p>lifting technique can be planned</p> <p>Vehicles are removed from pit after rotation and placed in disposable area. Use of strops or forks depending on position and condition of vehicle being moved</p> <p>Competent slinger supervises lift</p>			
	<p>Weight and size of props</p>	<p>Volunteers/pit crew</p> <p>Logistic team</p> <p>Participants</p> <p>Handing injuries</p> <p>Bumps, nips, lacerations</p> <p>Props unstable resulting in crush, impact injuries</p>	<p>Large loads lifted with plant. Suitable method of lifting is planned and supervised</p> <p>Loads are divided into smaller manageable weights where possible</p> <p>PPE worn includes, eye protection, grip gloves, toe protection - boots, or shoes.</p> <p>Props are checked for stability. Use of pre-scenario check</p>	<p>Yes</p>	<p>Ensure host sends PPE requirements to volunteers and check made that manual handling training is recent/in date.</p> <p>Briefing includes manual handling techniques, lightening loads, breaks and rotation if work hard, and weather warm or inclement</p>	

<p>Clearing Pit area</p>	<p>Cleaning of Pit area, dust, glass and metal debris</p>	<p>Logistic team Volunteers in Pit Area</p> <p>Dust and particulates leading to eye injuries, manual handling injuries, lacerations, injuries to hands and feet using brush and glass sweeper, respiratory issues due to particulates and dust</p>	<p>Brushes and glass sweeper, shovels and bins available, Skip for debris in disposal area.</p> <p>Large loads lifted with plant. Loads are divided into smaller manageable weights where possible</p> <p>Suitable method of lifting is planned and supervised</p> <p>PPE worn includes eye protection, grip gloves, toe protection - boots, or shoes, head protection Personal RPE</p>	<p>Yes</p>	<p>Ensure host sends PPE requirements to volunteers and check made that manual handling training is recent/in date.</p> <p>Briefing includes manual handling techniques, lightening loads, breaks and rotation if work hard, and weather warm or inclement</p>	
<p>Inclement weather</p>	<p>Significant rainfall and/ or lightening</p> <p>Gusty wind</p>	<p>Logistics team Volunteers in Pit Area Participants</p> <p>Spectators</p> <p>Localised flooding, slippery surfaces and difficulties handling vehicles leading to crush injuries, impact</p>	<p>Assessment made on weather conditions and if safe to continue</p> <p>Logistic team are competent at handling plant</p> <p>Safety team will monitor the weather and UKRO will determine contingencies.</p>	<p>Yes</p>		

		<p>Lightening with the potential to strike depending on close proximity</p> <p>Wind gusty, blowing dust and particulates into eyes</p>	<p>PPE including eye protection. Volunteers bring wet weather gear</p>			
<p>Use of live casualties/internal assessor</p> <p>Pit preparation</p>	<p>Casualties/assessors being positioned into vehicle</p>	<p>Assessor acting as casualty</p> <p>lacerations, eye injury, crush</p>	<p>Full PPE - protection for body, head, eyes, feet, hands, 'boiler suit' tucked into socks to prevent trouser legs from raising. All internal casualties/assessors attend safety briefing.</p> <p>Oxygen mask used for respiratory protection where required</p> <p>Sharps removed from vehicle cabin prior to casualty put in place or covered by protective tape or sheets when getting in or exiting vehicle.</p> <p>Vehicles are stabilised prior to casualty put in place</p>	<p>Yes</p>	<p>Volunteer information to explain role of internal; casualty/assessor.</p> <p>Volunteers must be given information of appropriate PPE required</p>	

<p>Use of live casualties/internal assessor</p> <p>Pit preparation</p>	<p>Casualties/assessors being positioned into vehicle</p>	<p>Panic/claustrophobia</p>	<p>Hard and soft protection in use</p> <p>Individuals are assisted into vehicle and asked if they are comfortable prior to rotation starting.</p> <p>Pre-scenario check is completed</p>	<p>Yes</p>		
<p>Welfare</p>	<p>Weather conditions inclement weather, lack of drinks and food due to working pressures</p>	<p>Logistic team</p> <p>Pit crew</p> <p>Fatigue from lack of opportunity to rest and have drinks and food leading to poor judgement</p> <p>Wet and cold increasing risks of poor judgement and accidents</p>	<p>Lunch and drinks provided</p> <p>Volunteers used to ensure drinks and food are available</p> <p>Shelter provided for between rotations</p> <p>PPE including wet weather gear</p>	<p>Yes</p>		