



Ref Code: (H & S Dept)		RISK ASSESSMENT (RA2)	
Description of activity / item being assessed	IVECO DAILY 70C18D 4x2 – RAPID INTERVENTION VEHICLE		DEVON & SOMERSET FIRE & RESCUE SERVICE


Scope			Type of assessment				Domain					
This RA refers to the use of the IVECO DAILY 70C18D 4x2 Rapid Intervention Vehicle within the Service Delivery Area			Initial	x	Specific		Operational	x	Training			x
			Review		Generic		Non- Operational		Other (Please state)			
Sub Routine / Task	Haz No	Hazard Description	Likely Harm	To Whom	Existing Control Measures	Risk Rating			Are Additional Control Measures Required?			
						L	S	R				
1. Crew Cab	1.1	Access and Egress from cab	Slip, Trip or fall leading to bruising or cut	Operational Personnel	<ul style="list-style-type: none">• Training and Supervision• Internal Step• Cab Step Illumination• Steps and cab flooring fitted with non-slip surfaces	2	2	4	None Identified			
	1.2	Fall from Cab when door not fully closed	<ul style="list-style-type: none">• Bruising• Fracture	Operational Personnel	<ul style="list-style-type: none">• Doors fitted with open warning system (Visual on eCab Display) and Audible when handbrake released• Seat belts fitted for use when vehicle in motion	2	3	6	None Identified			
	1.3	Impact from equipment inside cab during collision / emergency braking	<ul style="list-style-type: none">• Bruising• Fracture• Cut• Stress	Operational Personnel	<ul style="list-style-type: none">• Training and Supervision• Use of offside and nearside front lockers for PPE stowage• Clean Cab design (minimum equipment)• Fixed equipment secured	2	3	6	None identified			
	1.4	Injury from broken glass as a result of malicious damage	Cuts and penetration of glass to eyes and skin	Operational personnel	<ul style="list-style-type: none">• Anti-bandit film to all cab side glass	2	2	4	None identified			

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	1.5	External Predator opening door(s)	<ul style="list-style-type: none"> Bruising Fracture Stress 	Operational Personnel	<ul style="list-style-type: none"> Individual doors provided with internal locking button appliance fitted with Central Locking button fitted on dashboard 	2	2	4	None identified
2. Driving	2.1	Collision with other vehicles, people and objects during low speed manoeuvring forward and reversing	<ul style="list-style-type: none"> Musculoskeletal Injury Crushes Bruising 	<ul style="list-style-type: none"> All personnel 3rd Parties 	<ul style="list-style-type: none"> Adequate mirrors Reverse alarm conforming to EN981 with an acoustic Level of at least 73dB(A) Reversing Camera and Backscan e-proximity sensors Policy for deployment of banks man when reversing 	2	3	6	None identified
	2.2	Collision with other vehicles, people and objects whilst travelling	<ul style="list-style-type: none"> Musculoskeletal Injury Stress 	Operational Personnel	<ul style="list-style-type: none"> Training and Supervision Safety signs Policy and Provision of extra-long 3 point High Visibility seatbelts to allow for use when wearing full PPE 	2	2	4	None identified
	2.3	Collision with other vehicles, people and objects whilst travelling	<ul style="list-style-type: none"> Musculoskeletal Injury Death 	<ul style="list-style-type: none"> Operational Personnel 3rd Parties 	<ul style="list-style-type: none"> Driver Training and Assessment High visibility markings Audible and visual warnings 	3	4	12	None identified
	2.4	Excessive noise when sirens in use	<ul style="list-style-type: none"> Permanent hearing degradation Permanent hearing loss 	Operational Personnel	<ul style="list-style-type: none"> Drivers training All windows to be shut 	1	4	4	None identified
3. Stowage	3.1	Pull out trays	Cuts and bruises	Operational Personnel working around appliance	<ul style="list-style-type: none"> High visibility tape fitted to three sides. Lock out mechanism provided 	2	2	4	None identified

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	3.2	Slide out vertical RTC tray	Cuts & bruises	Operational Personnel working around appliance	<ul style="list-style-type: none"> White in colour. Illuminated during darkness. Lock when extended to eliminate movement when removing / replacing combi-tool Halligan Bar. 	1	1	2	None identified
	3.3	Slide out vertical Breathing apparatus tray	Cuts & bruises	Operational Personnel working around appliance	<ul style="list-style-type: none"> White in colour. Illuminated during darkness. Lock when extended to eliminate movement when donning BA sets. Stow when not in use 	1	1	2	None identified
	3.4	Equipment falling from open lockers	Cuts & bruises	<ul style="list-style-type: none"> Operational Personnel 3rd Parties working around appliance 	<ul style="list-style-type: none"> Lockers fitted with bespoke stowage and strapped in. 	2	2	4	None identified
	3.5	Removal of equipment from high level	Strains, sprains or back injury.	Operational personnel	<ul style="list-style-type: none"> Provision of slide and tilt trays 	3	2	6	None identified
	3.6	Manual handling of stowed equipment	Musculoskeletal injury	<ul style="list-style-type: none"> Operational personnel Workshop technicians 	Specific manual handling risk assessments carried out utilising Firestore software.	3	2	6	None identified
	3.7	Unable to open locker due to hosereel branch becoming trapped	Musculoskeletal Injury	Operational Personnel	<ul style="list-style-type: none"> Training and Supervision Locking mechanism of hose reel drum Dedicated stowage 	2	2	4	None identified

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	3.8	Layout of pump bay	Trapped fingers in tight spaces	Operational personnel	<ul style="list-style-type: none"> Dedicated stowage of loose equipment. Provision of stop button. Provision of radio speaker & handset. 	2	2	4	None identified
	3.9	Fall from appliance roof	Possible fall when working in darkness or when appliance roof is wet.	<ul style="list-style-type: none"> Workshop technicians 	<ul style="list-style-type: none"> Limit access to essential activities. Training & supervision. 	2	3	6	None identified
	3.10	Removal of hard suction, Triple extension ladder	Musculoskeletal injury	<ul style="list-style-type: none"> Operational personnel Workshop technicians 	<ul style="list-style-type: none"> Training & supervision. Manual Handling 	3	3	9	None identified
	3.11	3rd party colliding with parked appliance on public highway	Severe injuries when hit by road vehicle: <ul style="list-style-type: none"> Musculoskeletal Injury Haemorrhage Death 	<ul style="list-style-type: none"> Operational personnel Other road users 	<ul style="list-style-type: none"> Training & supervision. High visibility markings Strobe blue lighting Strobe red rear lighting High level stop and tail lights Side indicator repeaters Fend off procedures 	2	4	8	None identified
4. Operational Use	4.1	Pump Noise	<ul style="list-style-type: none"> Permanent hearing degradation Permanent hearing loss 	Operational personnel	<ul style="list-style-type: none"> Specific noise assessments carried out for RIV functions and equipment Provision of hearing protection Provision of 3 yearly hearing tests Sign showing hearing exposure 	2	3	6	None identified

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	4.2	Insufficient amount of BA sets (2 & 1 spare)	Inhalation of smoke	Operational personnel	<ul style="list-style-type: none"> 1 Spare set Early make up for additional Appliances and BA Sets. 	2	3	6	None identified
	4.3	Defective equipment	Various injuries	Operational personnel	<ul style="list-style-type: none"> Policy and regimes for reporting identified defects. Standard Test and Maintenance regimes in place 	2	4	8	None identified
	4.4	Spillage of fuels	Slip, trip or fall leading to musculoskeletal injury	Operational personnel Other road users	<ul style="list-style-type: none"> Training & supervision. Provision of EA spill kits Cap security 	2	2	4	None identified
	4.5	Defective equipment	Various injuries	Operational personnel	<ul style="list-style-type: none"> Policy and regimes for reporting identified defects. Standard Test and Maintenance regimes in place 	2	4	8	None identified
	4.6	Failure of appliance to turnout due to low / flat battery	Prolonged response time resulting in potential worsening of incident	Operational personnel Members of public	<ul style="list-style-type: none"> Provision of mains battery charging point Heavy duty Anderson socket fitted to enable Fleet Maintenance to fit external starter 	2	3	6	None identified

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Below are the additional assessments which may be required by virtue of Service Policy Documents and Statutory Regulations. Strike ~~(strike)~~ through those sections which are not required to support this assessment.

Long working	Noise at Work (RA6)	Manual handling (RA5)	PPE	COSHH (RA12)	Work Equipment (RA3)	Vibration (RA8)	Other (Please state below)
Fire Risk Assessment (PAS79)	H & S Workplace Assessment – Stations & Other Premises (RA9)	Operational Training / Events (RA7)	Assessment of Public Events attendance by service vehicles etc (RA7a)	Community use of service premises (RA9a)	Use of Service premises for Social or Fund Raising events (RA9b)	Non operational Lifting Operations (RA11)	

Haz No	Additional Controls	L	S	Revised Risk Rating	Person Responsible for Remedial Action	Date Person Advised	Time Scale	Date Completed

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LIKELIHOOD	SEVERITY (Injury)				
	Very High (Fatal) 5	High (Major) 4	Moderate (Serious) 3	Minor 2	Negligible 1
Very Likely 5	25	20	15	10	5
Likely 4	20	16	12	8	4
Quite Possible 3	15	12	9	6	3
Possible 2	10	8	6	4	2
Not Likely 1	5	4	3	2	1

RATING CRITERIA			
Risk Rating	Type of Action	Control Measures	Priority
20 – 25	STOP ACTIVITY	Change Process/Task	Immediate
15 – 19	Warnings/Instructions	Must Introduce	Very High
11 – 14	Consider Safety Measures	Introduce	High
6 – 10	Make Personnel Aware	Add if Possible	Moderate
1 – 5	Monitor & Review	Consider if Appropriate	Low

Guidance on Likelihood and Severity

Likelihood of Occurrence		
Not Likely	1	There is no risk at present. Only under freak conditions could there be any possibility of an accident or illness. All reasonable precautions appear to have been taken. This should be the normal state of the workplace.
Possible	2	If other contributing factors become present an accident or illness might occur, but the probability is low and the risk is minimal (e.g. chipped glass window, slightly worn steps).
Quite Possible	3	An accident may happen if significant additional factors precipitate it, but it is unlikely to happen without them. The additional factor is more than a casual slip and a nudge and would require an additional action or event to trigger it (e.g. leaving a vehicle with engine running, obstructing an aisle causing a trip hazard).
Likely	4	An accident is "likely" to happen if significant additional factors precipitate it i.e. wind, human error/carelessness etc. but which is unlikely to happen without this additional factor (e.g. ladder not secured, pile of tubes with temporary or makeshift wedge, temporary electrical hook-up to live supply).
Very Likely	5	If the work continues as it is, there is almost 100% certainty that an accident will happen (e.g. broken stair or broken round on a ladder, exposed electrical conductor, tall stack of heavy articles poorly supported).

Severity of Risk		
Negligible	1	Negligible risk of injury, disease, or financial loss/damage
Minor	2	Minor injury which would allow the individual to continue work after First aid treatment. The duration of the stoppage or treatment is such that the normal flow of work is not seriously interrupted. No adverse media coverage. Minimal financial loss or damage.
Moderate (Serious)	3	Causing moderate injury or disease capable of keeping an individual off work for seven days or more (RIDDOR reportable). Potential for moderate financial loss (from damage to equipment/litigation etc). Adverse media coverage. Moderate business interruption.
High (Major)	4	Causing serious injury to an individual that is "notifiable". Significant potential for financial loss, disruption to Organisation. Potential for litigation/prosecution by failure to significantly conform with statutory duties. Adverse media coverage. Potential prosecution.
Very High (Fatality)	5	Causing single or multiple deaths and/or severe disruption to the Organisation. Potential for extreme financial loss. Adverse national media coverage. Significant litigation cost potential. Potential prosecution of Organisation/individuals.

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