



CIVIL AVIATION ADVISORY PUBLICATION

CAAP 35

INSPECTION & TESTING OF RESCUE & FIRE- FIGHTING EQUIPMENT

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1. INTRODUCTION

1.1 Purpose

The purpose of this Civil Aviation Advisory Publication (CAAP) is to describe what Aerodrome and Heliport Rescue & Fire-Fighting Services (RFFS) need to do in ensuring rescue and fire-fighting equipment is fit for purpose.

1.2 The operational work of the Airport Rescue & Fire-Fighting Service is performed in a working environment that is constantly changing and can be inherently hazardous. Airport Fire Services therefore, have to place greater emphasis on ensuring, safe work equipment, safe systems of work and the competency of personnel.

1.3 Complete operational knowledge of all equipment is essential, in order to ensure its intelligent handling, and to ensure thorough maintenance which is essential to guarantee operational efficiency under all circumstances. It is important that every fire-fighter be satisfied that any piece of equipment which may be used will work satisfactorily and, in the case of ancillary equipment, it is in its correct stowage position. The importance of correct stowage of small equipment, to ensure that it can be instantly located, cannot be over-stressed.

2. STATUS

Date of issue August 2018.
Effective January 2019.

3. APPLICABILITY

This guidance document applies to all aerodrome & heliport Rescue & Fire-Fighting Services.

4. REFERENCES

Yemen Civil Aviation Regulations YCAR Part XI.

5. DEFINED PROCESS

5.1 All rescue and fire-fighting equipment shall be regularly tested and inspected. Inspection, testing, maintenance, and including cleaning is required, in order to keep work equipment in good working order and to ensure that it remains safe. If inspection, testing and maintenance is not carried out properly, two types of risk can be created:

The performance of the equipment, including any safety features, may deteriorate to the point where the users are put at risk;

The persons carrying out the inspection, testing and maintenance may be put at risk

5.2 A defined process in regards to competency levels, carrying out tests, inspections, recording, reporting and tracking of all tests, inspections and defects, shall be

established. The procedure should include a level of supervisory oversight, and actions to be taken when defective equipment remains outstanding for prolonged periods.

6 COMPETENT PERSON

6.1 Those persons carrying out the inspection, testing and maintenance may be put at risk. Therefore, it is essential that an appropriate '**Competent Person**', conducts the inspection, maintenance and/or testing of fire service equipment.

6.2 A competent person may be defined as one who, by virtue of their knowledge and qualification or relevant experience, has an adequate knowledge of the equipment to:

- Enable them to know what to look at (know the key components);
- Know what to look for (fault finding);
- Know what to do (reporting faults, making a record, who to report to).

6.3 The maintenance of equipment may involve risks to health and safety, and consideration should be given to assessing the risks and introducing appropriate control measures. The control measures can be classified into the following categories:

- Ensuring the competence of personnel;
- Making the equipment safer (isolation);
- Introducing safe operations

6.4 Once a programme of inspection, testing and maintenance has been developed, responsibilities shall be allocated to appropriate personnel (usually supervisors or managers), requiring them to monitor the programme in order to ensure its effectiveness.

Such persons shall check, on an ongoing basis, that:

- Inspection, testing and maintenance is being carried out at the intervals specified in the schedules;
- Inspection, testing and maintenance records are being kept up to date;
- Any recommendations for action (for example, rectification of faults, replacement of worn out parts) made by the maintenance operative, are carried out and a record is provided to indicate the completion of work required.

6.5 An appropriate competent person shall determine the nature of inspections and maintenance to be carried out and the skills required to do so. The levels and areas of competence required will vary according to the type of equipment in use.

7 TRAINING

7.1 Airports shall ensure that all persons who work with equipment and those who manage or supervise those persons are provided with adequate training, supported by the provision of the relevant information relating to its safe use.

7.2 It is necessary for Airports to determine what constitutes '**adequate training**', as requirements will vary according to the role or rank and work equipment etc. In general, there is a need to:

- Evaluate the existing competence of employees to operate the full range of work equipment that they use;
- Evaluate the competence needed to manage or supervise the use of work equipment;

- Train the employee and make up any shortfall between their competence and that required to carry out the work with due regard to health and safety;
- Take account of the circumstances in which the employee works;
- Provide refresher training as necessary. Particular attention should be given to people who deputise for others on occasions, as they may need more frequent refresher training.

8 RECORDS

- 8.1 The results of actual tests and inspection shall be fully recorded, Any decay in operational performance needs to be identified, monitored and actions taken with immediate effect. Records of all equipment tests and inspection shall be maintained and retained, for the operational life of the equipment, for auditing purposes.
- 8.2 Equipment failing to meet the requirements of a specific inspection and/or test shall be dealt with immediately, either by rectifying the fault or reporting it as appropriate. Consideration shall be given as to whether the equipment may remain in operational service.
- 8.3 It is essential that all inspections and/or tests together with any maintenance activities or repairs of equipment be recorded. Whilst the manner for doing so will need to be determined by the airport, it is essential that any system chosen is able to accurately identify the specific item, together with details of the inspection and test history of the equipment. As a minimum, such records shall include the following:
- Information on the type and model of equipment;
 - Any identification mark or number that it has;
 - Its normal location;
 - The date that the inspection was carried out;
 - Who carried out the inspection;
 - Any faults found as a result of the inspection;
 - Any action taken regarding such faults;
 - To whom, and by whom, these faults have been reported;
 - The date when repairs or other necessary action were carried out.
- 8.4 Notwithstanding, the fact that inspection, testing and maintenance need to be conducted by a '**competent person**', there remains a responsibility on **all personnel** to identify defective or potentially defective equipment, whenever this may come to their attention and to take appropriate action.

9 TESTING & INSPECTION FREQUENCY

- 9.1 The inspection and/or test frequency identified for each particular item of equipment shall be regarded as a minimum requirement. It should be increased for equipment that is used extensively, or following an occasion where an item of equipment may have been used outside its recommended working limits or for a purpose for which it was not intended.
- 9.2 When determining the frequency of inspection and/or test, consideration should also be given to the following:
- Intensity of use – frequency and maximum working limits;
 - Manufacturers guidance;
 - Variety of operations – is the equipment performing the same task all the time or does this change?

- Risk to health and safety from malfunction or failure.

In the context of this CAAP the term “after use”, means after each individual occasion that an item of equipment has been used.

FREQUENCY OF TESTING								
Acceptance	Daily	Weekly	Monthly	3 Monthly	6 monthly	Annually	Before Training	After use

10 TESTING PROCEDURE (APPLIED MASS)

- 10.1 Where the testing of equipment requires the application of a specific mass or force, this shall always be achieved by the application of a calibrated mass or tensile force. Under **no** circumstances should the mass required for testing an item of equipment, be substituted by the use of one or more firefighters or any other ad hoc arrangement.
- 10.2 In all cases where it is necessary to apply mass or force to an item of equipment in order to conduct a test, it is essential that the designated loading is applied carefully and without subjecting the equipment to any shock or dynamic loading, thereby avoiding the possibility of damage to the equipment.
- 10.3 For the test procedures detailed within this CAAP where it is necessary to apply a force as a part of the test requirement, the forces quoted are derived from the mass of an operationally equipped firefighter which has been taken to be 90kg.
- 10.4 It is not usually practicable to carry out thorough pre-use inspections immediately prior to emergency service use. Therefore, after use inspections are critical to establish that the integrity of the equipment has not been compromised and it is ready for immediate re-use.

11 EQUIPMENT INFORMATION

- 11.1 Information and instructions shall be made available to all persons who will be required to use, supervise, maintain and manage work equipment.
- 11.2 This information shall include that provided by manufacturers or suppliers or work equipment such as instruction sheets or manuals, instruction placards, warning labels and training manuals. It may also include instructions from training courses etc.
- 11.3 Any information and written instructions provided shall cover:
- Health and safety aspects including risks arising from the use of the work equipment;
 - Any limitations on the use of the work equipment;
 - Any foreseeable difficulties that could arise and precautions to be taken;
 - Inspection, testing and maintenance criteria;

12 INSPECTION & TESTING CARDS

- 12.1 The Civil Aviation and metrology Authority has so far as is reasonably practicable developed the inspection and testing cards overleaf based on best practice and manufactures recommendations.

12.2 It is advised that all airports assess the information, frequency and process against their own operational equipment and manufactures guidance.

Equipment Test:	Fire Service Lay Flat Hose	Test Number 1
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FREQUENCY OF TESTING								
Acceptance	Daily	Weekly	Monthly	3 Monthly	6 monthly	Annually	Before Training	After use
X						X		X

Safety Concept
Caution of hose bursting under pressure

Cleaning/Maintenance Instructions
Good visual inspection of hose and hose couplings for cleanliness and any obvious damage. Check for distortion and the plungers on the instantaneous female coupling examined to ensure correct seating. The hose should be laid flat for this purpose.

Competency Level	Fire-fighter under supervision
Why	Maintain operational Integrity
How	<ul style="list-style-type: none"> Lay the hose out flat on a flat surface. Visually inspect the hose and couplings for damage. Connect hose to an appliance and a hand controlled branch at the female coupling end. Apply water pressure gradually to 10 bars. Close the branch and walk along the hose looking for any leaks. Release the pressure, disconnect the couplings. Inspect the coupling for distortion and the washer is in place in the female coupling. Operate plungers of the coupling and slightly grease if required.
Recording Results	Complete individual hose records and sign completed
Action & Follow up	Replace defected hose and report to Officer-in-Charge
Equipment failing to meet the requirements of a specific inspection and/or test shall be dealt with immediately either by rectifying the fault or reporting it as appropriate. Consideration shall be given as to whether the equipment may remain in service.	

Equipment Test:	Fire Service Hose Reel	Test Number 2
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FREQUENCY OF TESTING								
Acceptance	Daily	Weekly	Monthly	3 Monthly	6 monthly	Annually	Before Training	After use
X				X		X		

Safety Concept
Full PPE to be worn when testing hose reel

Cleaning/Maintenance Instructions
The hose and hose couplings are subjected to a full visual inspection, looking for signs of damage or distortion, examine couplings to ensure correct seating. The hose should be fully removed from the drum laid flat for this purpose.

Competency Level	Fire-fighter under supervision
Why	Maintain operational Integrity
How	<ul style="list-style-type: none"> The hose shall be subjected to a pressure test of 1.5 times the working pressure, or the maximum working pressure of the pump, and this pressure maintained for a period of 1 minute. It is essential that the pressure is applied gradually to allow the hose to take the strain imposed upon it.
Recording Results	Complete individual hose records and sign completed
Action & Follow up	Replace defected hose and report to Officer-in-Charge
Equipment failing to meet the requirements of a specific inspection and/or test shall be dealt with immediately either by rectifying the fault or reporting it as appropriate. Consideration shall be given as to whether the equipment may remain in service.	

Equipment Test:	Fire Service Suction Hose	Test Number 3
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FREQUENCY OF TESTING								
Acceptance	Daily	Weekly	Monthly	3 Monthly	6 monthly	Annually	Before Training	After use
X				X				X

Safety Concept
Full PPE to be worn when testing suction hose.

Cleaning/Maintenance Instructions
Suction hose should be examined on acceptance, quarterly and after operational use to see that the couplings are in good condition and that the washers are in place. Defective washers should be replaced. Collars and threads should be lightly oiled or greased if necessary.

Competency Level	Fire-fighter under supervision
Why	Maintain operational Integrity
How	<ul style="list-style-type: none"> All lengths of suction should be coupled together to the suction inlet of the pump with a blank cap in position at the end of the last length of hose. All deliveries should be closed. The primer should be run at priming speed for not more than 45 seconds. Priming should cease after obtaining 0.8 bar or more on the vacuum. The compound gauge should be watched; if the needle falls back to 0.3 bar in less than a minute an excessive air leak is present. This may be due to defective pump glands, leaks at the gauges, delivery valves or a fault in the suction. All connections should be checked and deliveries checked to ensure they are closed. Any leak in the suction hose can be found by carrying out a water pressure test. This test should not exceed 3 bars. The suction hose should be connected to a pressure supply with a blank cap fitted to one end and the pressure increased to a pressure of not more than 3 bars.
Recording Results	Complete individual hose records and sign completed
Action & Follow up	Replace defected hose and report to Officer-in-Charge
Equipment failing to meet the requirements of a specific inspection and/or test shall be dealt with immediately either by rectifying the fault or reporting it as appropriate. Consideration shall be given as to whether the equipment may remain in service.	

Equipment Test:	All Fire Service Extension Ladders	Test Number 4
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FREQUENCY OF TESTING								
Acceptance	Daily	Weekly	Monthly	3 Monthly	6 monthly	Annually	Before Training	After use
X				X		X		X

Safety Concept
When extending any ladder full protective clothing is to be worn

Cleaning/Maintenance Instructions
Wipe clean with damp cloth, lightly lubricate pulley rings/pawls if required

Competency Level	Fire-fighter under supervision
Why	Maintain operational Integrity
How	<ul style="list-style-type: none"> Carry out full visual inspection of all areas of the Ladder. Ensure all moving parts work correctly. Fully extend the ladder on the ground. Place the ladder on a trestle for a detailed inspection, strings, rounds, extending line etc. Ensure pawls and extending line if fitted is in good working order. The ladder should be pitched to its fullest extent against a building to assess action of pulleys and pawls and friction brake if fitted. All Ladders should receive an annual test by a competent person.
Recording Results	Complete individual records and sign completed
Action & Follow up	Report defect to Officer-in-Charge
Equipment failing to meet the requirements of a specific inspection and/or test shall be dealt with immediately either by rectifying the fault or reporting it as appropriate. Consideration shall be given as to whether the equipment may remain in service.	

Equipment Test:	Fire Service Hydrants (Underground)	Test Number 5
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FREQUENCY OF TESTING								
Acceptance	Daily	Weekly	Monthly	3 Monthly	6 monthly	Annually	Before Training	After use
X						X		

Safety Concept
Full PPE to be worn when testing hydrants

Cleaning/Maintenance Instructions
Carry out a thorough visual inspection of the surrounding area ensure it is clear of vegetation/sand. Make sure the location of the hydrant is clearly identified and report if hydrant location or pit cover requires painting.

Competency Level	Fire-fighter under supervision
Why	Maintain operational Integrity
How	<ul style="list-style-type: none"> Visually inspect the surrounding area. Remove pit cover and inspect pit for damage. Ensure there is a false spindle fitted. Place the standpipe onto the hydrant and turnkey onto false spindle, connect a short length of fire hose. and crack open the hydrant, Allow water to flow, if the water does not become clear report it. Once clear connect a hand controlled branch and open the hydrant fully. Close the branch and check the hydrant for any leaks. Turn hydrant off. Remove standpipe and turnkey, replace pit cover and check the surrounding area.
Recording Results	Complete individual records and sign completed
Action & Follow up	Report defect to Officer-in-Charge
Equipment failing to meet the requirements of a specific inspection and/or test shall be dealt with immediately either by rectifying the fault or reporting it as appropriate. Consideration shall be given as to whether the equipment may remain in service.	

Equipment Test:	Appliance Automotive Test (Major Foam)	Test Number 6
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FREQUENCY OF TESTING								
Acceptance	Daily	Weekly	Monthly	3 Monthly	6 monthly	Annually	Before Training	After use
X			X					

Safety Concept
Appropriate PPE to be worn when carrying out automotive testing

Cleaning/Maintenance Instructions

Competency Level	Driver under supervision
Why	Maintain operational Integrity
How	<ul style="list-style-type: none"> The appliance and crew are to proceed to the area designated for appliance automotive testing. No member of the crew is to be permitted to ride on the monitor platform during this test. When the Crew Manager of the appliance is satisfied it is safe to proceed and with ATC permission, (if required) the timed speed test run can commence. It may be best to do two runs to gain an average automotive test time. Automotive test for Major Foam: 0-80 KPH / 0-50 MPH within 40 seconds at normal operating temperature from a standing start. With a top speed of 100 KPH / 62 MPH.
Recording Results	Complete individual records and sign completed
Action & Follow up	Report defect to Officer-in-Charge
Equipment failing to meet the requirements of a specific inspection and/or test shall be dealt with immediately either by rectifying the fault or reporting it as appropriate. Consideration shall be given as to whether the equipment may remain in service.	

Equipment Test:	Appliance Response Time	Test Number 7
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FREQUENCY OF TESTING								
Acceptance	Daily	Weekly	Monthly	3 Monthly	6 monthly	Annually	Before Training	After use
X				X				

Safety Concept
All appliances are to be driven in a manner that is safe and commensurate with the surface and weather conditions.

Cleaning/Maintenance Instructions

Competency Level	Driver under supervision
Why	Maintain operational Integrity
How	<ul style="list-style-type: none"> The appliance response time is tested by sounding the station alarm. The appliance is to proceed at full operation speed to the predetermined position that may be any part of the maneuvering area where aircraft park or taxi as well as the end of each runway. The appliance commander is to book in attendance with ATC when in position. Response time is considered to be the time between the initial call to the Rescue and Fire Fighting Service and the time when the first responding vehicle(s) is (are) in position, and producing foam at a minimum of 50% of the discharge rate as specified. The operational objective of the rescue and fire-fighting service shall be to achieve and consistently demonstrate response time of two minutes to the end of each runway, as well as to any other part of the movement area, in optimum visibility and surface conditions.
Recording Results	Complete individual records and sign completed
Action & Follow up	Report defect to Officer-in-Charge
Equipment failing to meet the requirements of a specific inspection and/or test shall be dealt with immediately either by rectifying the fault or reporting it as appropriate. Consideration shall be given as to whether the equipment may remain in service.	

Equipment Test:	15m/30m Metre General Purpose Line (s)	Test Number 8
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FREQUENCY OF TESTING								
Acceptance	Daily	Weekly	Monthly	3 Monthly	6 monthly	Annually	Before Training	After use
X				X				X

Safety Concept
None

Cleaning/Maintenance Instructions
Ensure Dirty Lines are thoroughly washed & Dried before replacing bag and back on the Fire Appliance

Competency Level	Fire-fighter under supervision
Why	Maintain operational Integrity
How	<ul style="list-style-type: none"> Lay Line out on the floor. Carry out a full visual inspection of the entire length of the Line. Note any Signs of cuts or nicks in the Line. For Laid Lines, open up the Line by twisting the strands, taking care not to kink them. Ensure whipping at the end of the line is in a satisfactory condition.
Recording Results	Complete individual records and sign completed.
Action & Follow up	Report defect to Officer-in-Charge.
Equipment failing to meet the requirements of a specific inspection and/or test shall be dealt with immediately either by rectifying the fault or reporting it as appropriate. Consideration shall be given as to whether the equipment may remain in service.	

Equipment Test:	Large / Small Crowbars	Test Number 9
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FREQUENCY OF TESTING								
Acceptance	Daily	Weekly	Monthly	3 Monthly	6 monthly	Annually	Before Training	After use
X				X				X

Safety Concept
Care should be taken when handling due to weight and sharp edges.

Cleaning/Maintenance Instructions
To be cleaned using wire brush or wire wool and wiped with a lightly oiled rag to prevent rust. Paint as required.

Competency Level	Fire-fighter under supervision
Why	Maintain operational Integrity
How	<ul style="list-style-type: none"> Check the shaft for signs of damage. Examine the head for sharpness and chips. Check the appliance stowage.
Recording Results	Complete individual records and sign completed
Action & Follow up	Report defect to Officer-in-Charge
Equipment failing to meet the requirements of a specific inspection and/or test shall be dealt with immediately either by rectifying the fault or reporting it as appropriate. Consideration shall be given as to whether the equipment may remain in service.	

Equipment Test:	Large and Small Axes.	Test Number 10
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FREQUENCY OF TESTING								
Acceptance	Daily	Weekly	Monthly	3 Monthly	6 monthly	Annually	Before Training	After use
X				X				X

Safety Concept
Care should be taken when handling due to sharp edges.

Cleaning/Maintenance Instructions
To be cleaned using wire brush or wire wool and wiped with a lightly oiled rag to prevent rust.

Competency Level	Fire-fighter under supervision
Why	Maintain operational Integrity
How	<ul style="list-style-type: none"> • Check the handle shaft for signs of damage. • Examine the axe head for sharpness and chips. Check the axe head is fitted securely to the shaft with no movement. • Check the appliance stowage.
Recording Results	Complete individual records and sign completed
Action & Follow up	Report defect to Officer-in-Charge
Equipment failing to meet the requirements of a specific inspection and/or test shall be dealt with immediately either by rectifying the fault or reporting it as appropriate. Consideration shall be given as to whether the equipment may remain in service.	

Equipment Test:	Portable Light Units	Test Number 11
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FREQUENCY OF TESTING								
Acceptance	Daily	Weekly	Monthly	3 Monthly	6 monthly	Annually	Before Training	After use
X				X				X

Safety Concept
Light units require a generator to operate. Care should be taken with the fuel and oils used. Also heat generated by the engine.

Cleaning/Maintenance Instructions
Lighting unit should be wiped down with a dry cloth after use and as part of the monthly inspection.

Competency Level	Fire-fighter under supervision
Why	Maintain operational Integrity
How	<ul style="list-style-type: none"> Inspect the casing for damage. Ensure the lens has no damage. Connect the unit to a generator and run for 15 minutes. Clean the unit and ensure they are stored correctly on appliances.
Recording Results	Complete individual records and sign completed
Action & Follow up	Report defect to Officer-in-Charge
Equipment failing to meet the requirements of a specific inspection and/or test shall be dealt with immediately either by rectifying the fault or reporting it as appropriate. Consideration shall be given as to whether the equipment may remain in service.	

Equipment Test:	Demountable Dry Powder Units	Test Number 12
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FREQUENCY OF TESTING								
Acceptance	Daily	Weekly	Monthly	3 Monthly	6 monthly	Annually	Before Training	After use
X			X	X		X		X

Safety Concept
Care should be taken when deploying the units from the Fire Appliance. PPE should be worn.

Cleaning/Maintenance Instructions
Wipe clean with damp cloth

Competency Level	Fire-fighter under supervision
Why	Maintain operational Integrity
How	<ul style="list-style-type: none"> • Visually check the unit, the hose for damage. • Check the applicator valve for free movement. Check the weight of the CO2 cylinder (If fitted). • Quarterly; Lubricate the wheels and axles also the folding handles at the pivoting points. • Annually; It is recommended that the unit is discharged and replenished with fresh powder. • Check the appliance stowage.
Recording Results	Complete individual records and sign completed
Action & Follow up	Report defect to Officer-in-Charge.
Equipment failing to meet the requirements of a specific inspection and/or test shall be dealt with immediately either by rectifying the fault or reporting it as appropriate. Consideration shall be given as to whether the equipment may remain in service.	

Equipment Test:	First Aid Bags Carried on Appliances	Test Number 13
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FREQUENCY OF TESTING								
Acceptance	Daily	Weekly	Monthly	3 Monthly	6 monthly	Annually	Before Training	After use
X			X					X

Safety Concept
When using First Aid equipment, the correct PPE is to be worn

Cleaning/Maintenance Instructions
Ensure all items are clean as per there own guidelines. All sterile equipment must be sealed. All equipment for use only once to be placed in clinical waste bags and handed to the Ambulance Service.

Competency Level	Fire-fighter under supervision
Why	Maintain operational Integrity
How	<ul style="list-style-type: none"> Inspect the First Aid Bag for damage. Ensure the bag and contents are clean and dry. Check all equipment is in date. All sterile equipment is to be sealed. All equipment to be stored in the correct part of the bag. Ensure all equipment is in working condition. Equipment that has been used replace. Check the appliance stowage.
Recording Results	Complete individual records and sign completed
Action & Follow up	Report defect to Officer-in-Charge
Equipment failing to meet the requirements of a specific inspection and/or test shall be dealt with immediately either by rectifying the fault or reporting it as appropriate. Consideration shall be given as to whether the equipment may remain in service.	

Equipment Test:	Water Spray Branches	Test Number 14
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FREQUENCY OF TESTING								
Acceptance	Daily	Weekly	Monthly	3 Monthly	6 monthly	Annually	Before Training	After use
X				X				X

Safety Concept
When working with foam producing equipment at operational pressures all PPE should be worn. All equipment needs to be fully cleaned after use. Test to be carried out as part of the appliance water discharge Test.

Cleaning/Maintenance Instructions
Flush with clean water after use.

Competency Level	Fire-fighter under supervision
Why	Maintain operational Integrity
How	<ul style="list-style-type: none"> • Visually inspect the Branch for any damage to the body. • Ensure the fins inside the branch are secure and operating by moving the defuser control. • Ensure the On Off control moves freely and operates the ball valve. • Check the rivets that secure the body to the control unit, as these have been known to suffer wear. • Connect the Branch to a 45mm hose and operate with foam at a pressure of 7 bar. • Ensure the controls operate under pressure and that good quality foam is being produced. • Ensure the line and branches are flushed out correctly. • Check the appliance stowage.
Recording Results	Complete individual records and sign completed
Action & Follow up	Report defect to Officer-in-Charge
Equipment failing to meet the requirements of a specific inspection and/or test shall be dealt with immediately either by rectifying the fault or reporting it as appropriate. Consideration shall be given as to whether the equipment may remain in service.	

Equipment Test:	Major Foam Pumping Appliance Discharge Test	Test Number 15
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FREQUENCY OF TESTING								
Acceptance	Daily	Weekly	Monthly	3 Monthly	6 monthly	Annually	Before Training	After use
X					X			X

Safety Concept
When working with foam producing equipment at operational pressures full PPE should be worn. All equipment needs to be fully cleaned after use. The appliance engine will be checked prior to commencing the test to ensure that the oil, water and fuel levels are correct. At no time will the water contents of the appliance fall below 50% during the testing, this is to ensure the aerodrome category is not affected.

Cleaning/Maintenance Instructions
Flush with clean water after use, refill appliance with water/foam.

Competency Level	Fire-fighter under supervision
Why	Maintain operational Integrity
How	<ul style="list-style-type: none"> Discharge tests shall be conducted to establish the firefighting foam discharge patterns produced and the maximum range attainable by the monitor. The test shall be conducted under wind conditions of 8 km/h or less. To determine maximum discharge range, the monitor shall be tilted upward to form a 30-degree angle with the horizontal. Foam shall be discharged onto a paved surface at the specified pressure, in both the straight stream and fully dispersed nozzle settings. For purposes of defining the edge of the pattern, any foam less than 12.7 mm in depth shall be disregarded. The distance from the monitor to the end of the effective foam pattern shall be measured.
Recording Results	Complete individual records and sign completed.
Action & Follow up	Report defect to Officer-in-Charge
Equipment failing to meet the requirements of a specific inspection and/or test shall be dealt with immediately either by rectifying the fault or reporting it as appropriate. Consideration shall be given as to whether the equipment may remain in service.	

Equipment Test:	Foam Making Branches	Test Number 16
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FREQUENCY OF TESTING								
Acceptance	Daily	Weekly	Monthly	3 Monthly	6 monthly	Annually	Before Training	After use
X				X				X

Safety Concept
Full PPE must be worn during the testing of the branch.

Cleaning/Maintenance Instructions
Wipe clean with damp cloth/ grease any moving part

Competency Level	Fire-fighter under supervision
Why	Maintain operational Integrity
How	<ul style="list-style-type: none"> Carry out a full visual inspection of the branch checking for any damage and that all grub screws and nuts are in place and are tight. Check the operation of the spray pattern selector, the droplet size selector and the branch on/off handle. Check the condition of the defuser and that it spins freely (if fitted). Connect branch to a hose and fire appliance and charge with water checking the spray pattern and the operation of selectors and on/off handle also checking for leaks around the joints. Check the appliance stowage.
Recording Results	Complete individual records and sign completed
Action & Follow up	Report defect to Officer-in-Charge
Equipment failing to meet the requirements of a specific inspection and/or test shall be dealt with immediately either by rectifying the fault or reporting it as appropriate. Consideration shall be given as to whether the equipment may remain in service.	

Equipment Test:	Annual Foam Test						Test Number 17	
FREQUENCY OF TESTING								
Acceptance	Daily	Weekly	Monthly	3 Monthly	6 monthly	Annually	Before Training	After use
X						X		
Safety Concept								
When working with foam producing equipment at operational pressures all PPE should be worn. All equipment needs to be fully cleaned after use. The appliance engine will be checked prior to commencing the test to ensure that the Oils, water and fuel levels are correct.								
Cleaning/Maintenance Instructions								
Flush with clean water after use, refill appliance with water/foam.								
Competency Level			Fire-fighter under supervision					
Why			Maintain operational Integrity					
How			<ul style="list-style-type: none"> • Induction Accuracy For systems designed to induce at 6%, induction should be in the range 5% to 7% at the optimum working conditions. For systems designed to induce at 3%, the range is 3% to 4% and for 1% systems, the range is 1% to 1.1%. Pre-mixed foam systems should have foam concentrate introduced to within a tolerance of 0.9 to 1.1 times the manufacturer's desired induction rate. • Expansion Ratio The amount of air entrained into a foam stream governs its expansion, which in turn may affect the fluidity of the finished foam and therefore the rate of spread over the surface of burning fuels. The expansion of a representative sample of the foam blanket produced in operational operating conditions determined should be no less than 6:1, a value between 8:1 and 12:1 being preferred. • Drainage Time The rate at which foam solution drains from a foam blanket may be a partial consideration in that foam blanket's efficiency in progressively controlling and extinguishing fires and subsequent post-fire security. A 25% drainage time of more than 5 minutes is preferred. However, the time taken for the drainage of 25% of the foam solution from a representative sample of the foam blanket produced in operational operating conditions shall be the greater of at least 3 minutes, or no less than 90% of the ideal figures agreed and quoted by the foam and equipment manufacturers concerned. 					
Recording Results			Complete individual records and sign completed					
Action & Follow up			Report defect to Officer-in-Charge					
Equipment failing to meet the requirements of a specific inspection and/or test shall be dealt with immediately either by rectifying the fault or reporting it as appropriate. Consideration shall be given as to whether the equipment may remain in service.								

Equipment	Appliance Vacuum Test	Test Number 18
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Test:		
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FREQUENCY OF TESTING								
Acceptance	Daily	Weekly	Monthly	3 Monthly	6 monthly	Annually	Before Training	After use
X				X				

Safety Concept
Full PPE must be worn while carrying out the test.

Cleaning/Maintenance Instructions
Flush with clean water after use, check washers and hose condition Ensure that the threads and the seals are clean and not damaged on the hard suction couplings.

Competency Level	Fire-fighter under supervision
Why	Maintain operational Integrity
How	<ul style="list-style-type: none"> All lengths of suction should be coupled together to the suction inlet of the pump with a blank cap in position at the end of the last length of hose. All deliveries should be closed. The pump/primer should be run at priming speed for not more than 45 seconds. Priming should cease after obtaining 0.8 Bar or more on the vacuum, the compound gauge should be watched, if the needle falls back to 0.3 Bar in less than a minute an excessive air leak is present. This may be due to defective pump glands, leak at the gauges, delivery valves or a fault at the suction. If a leak is present all connections should be checked and deliveries checked that they are closed. Any leak in the suction hose can be found by carrying out a water pressure test. This test must not exceed 3 Bar. The suction hose should be connected to a pressure supply with a blank cap fitted to one end and the pressure increased to a pressure of no more than 3 Bar.
Recording Results	Complete individual records and sign completed
Action & Follow up	Report defect to Officer-in-Charge
Equipment failing to meet the requirements of a specific inspection and/or test shall be dealt with immediately either by rectifying the fault or reporting it as appropriate. Consideration shall be given as to whether the equipment may remain in service.	

Equipment Test:	Pneumatic Powered Rescue Saw	Test Number 19
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FREQUENCY OF TESTING								
Acceptance	Daily	Weekly	Monthly	3 Monthly	6 monthly	Annually	Before Training	After use
X		X		X		X		X

Safety Concept
Full PPE Must be worn at all times with helmet visor down while operating this equipment.

Cleaning/Maintenance Instructions
Wipe clean with damp cloth, grease check blade

Competency Level	Fire-fighter under supervision
Why	Maintain operational Integrity
How	<ul style="list-style-type: none"> • Weekly; Visually inspect the Saw for damage. Refill the oil reservoir with manufactures oil. • Check the condition of the saw blade and its security. • Visually inspect the airline, the regulator and all connections for damage. • Connect the air supply and operate the saw at slow speed with the silencer closed, this is to lubricate the internal parts, once run refill the reservoir with saw oil. Clean with a soft cloth. • Quarterly; Hold the saw in the downward position with the silencer guard open and run the saw at full speed for 2 - 3 minutes, this action will expel some oil from within the saw. • Quarterly; Carry out a full operational test by operating the tool under load for approximately 1 - 2 minutes, followed by the weekly tests. • Annually; the tool should be sent to an approved testing centre for its annual test. On return a full quarterly test is to be carried out. • Check the appliance stowage.
Recording Results	Complete individual records and sign completed
Action & Follow up	Report defect to Officer-in-Charge
Equipment failing to meet the requirements of a specific inspection and/or test shall be dealt with immediately either by rectifying the fault or reporting it as appropriate. Consideration shall be given as to whether the equipment may remain in service.	

Equipment Test:	Pneumatic Rescue Chisel Complete	Test Number 20
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FREQUENCY OF TESTING								
Acceptance	Daily	Weekly	Monthly	3 Monthly	6 monthly	Annually	Before Training	After use
X		X		X		X		X

Safety Concept
Full PPE Must be worn at all times with helmet visor down while operating this equipment. Only operate the pneumatic rescue chisel when the chisel is under load into a wooden block.

Cleaning/Maintenance Instructions
Wipe clean with damp cloth, grease check chisels

Competency Level	Fire-fighter under supervision
Why	Maintain operational Integrity
How	<ul style="list-style-type: none"> • Weekly; Visually inspect the pneumatic rescue chisel and chisel for damage. • Visually inspect the airline, the regulator and all connections for damage. • Quarterly; Carry out a full operational test by operating the tool under load into a wooden block for approximately 1 - 2 minutes, followed by the weekly tests. • After operation clean the pneumatic rescue chisel with a soft cloth and replace into box. • Annually; the tool should be sent away to an approved testing centre for its annual test. • Check the appliance stowage.
Recording Results	Complete individual records and sign completed.
Action & Follow up	Report defect to Officer-in-Charge
Equipment failing to meet the requirements of a specific inspection and/or test shall be dealt with immediately either by rectifying the fault or reporting it as appropriate. Consideration shall be given as to whether the equipment may remain in service.	

Equipment Test:	Abrasive Wheel Saw	Test Number 21
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FREQUENCY OF TESTING								
Acceptance	Daily	Weekly	Monthly	3 Monthly	6 monthly	Annually	Before Training	After use
X	X	X		X		X		X

Safety Concept
Ensure full PPE is worn with visors down when engine is going to be started for the operational part of the test. Following an operational test care should be taken due to hot surfaces on the machine.

Cleaning/Maintenance Instructions
Wipe clean with damp cloth, check fuel, check blade

Competency Level	Fire-fighter under supervision
Why	Maintain operational Integrity
How	<ul style="list-style-type: none"> • Daily Check the fuel level and refill as required. Carry out a visual inspection of the machine • checking for damage to any part, plug lead and cap in place and all fittings are secure. • Carry out a visual inspection of the disk ensuring that there is no damage at all and that the disk is dry. Replace disc as required. • If replacing the disc, only personnel having the appropriate competency can carry out this task, checking the securing bolt on the disk is tight and the correct disc for the RPM is used, the replacement disc is in date, the correct type of disc, the locating hole is of the correct diameter and the disc is dry and not warped etc. • Wearing full PPE with visors down start and run the saw at full RPM for 1 minute. • Check the appliance stowage.
Recording Results	Complete individual records and sign completed
Action & Follow up	Report defect to Officer-in-Charge
Equipment failing to meet the requirements of a specific inspection and/or test shall be dealt with immediately either by rectifying the fault or reporting it as appropriate. Consideration shall be given as to whether the equipment may remain in service.	

Equipment Test:	Loud Hailer	Test Number 22
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FREQUENCY OF TESTING								
Acceptance	Daily	Weekly	Monthly	3 Monthly	6 monthly	Annually	Before Training	After use
X		X		X		X		

Safety Concept
Ensure Batteries are regularly inspected for corrosion

Cleaning/Maintenance Instructions
To be wiped clean after use with Damp Cloth

Competency Level	Fire-fighter under supervision
Why	Maintain operational Integrity
How	<ul style="list-style-type: none"> • Carry out Full visual inspection. • Carry out full operational test ensuring volume button works. • Quarterly; Inspect Batteries. • Annually; Change batteries. • Check the appliance stowage.
Recording Results	Complete individual records and sign completed.
Action & Follow up	Report defect to Officer-in-Charge.
Equipment failing to meet the requirements of a specific inspection and/or test shall be dealt with immediately either by rectifying the fault or reporting it as appropriate. Consideration shall be given as to whether the equipment may remain in service.	

Equipment Test:	Quick Release Knives (Seat Belt Cutter)	Test Number 23
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FREQUENCY OF TESTING								
Acceptance	Daily	Weekly	Monthly	3 Monthly	6 monthly	Annually	Before Training	After use
X				X				

Safety Concept
When cleaning and lubricating be aware of the blade

Cleaning/Maintenance Instructions
To be wiped clean after use with Damp Cloth

Competency Level	Fire-fighter under supervision
Why	Maintain operational Integrity
How	<ul style="list-style-type: none"> • Visually inspect the knife. • Ensure no damage or distortion to the cutting edge. • Check the mountings in the appliance for damage and ensure the stowage is secure. • Clean and lubricate with a light oil. • Check the appliance stowage.
Recording Results	Complete individual records and sign completed.
Action & Follow up	Report defect to Officer-in-Charge.
Equipment failing to meet the requirements of a specific inspection and/or test shall be dealt with immediately either by rectifying the fault or reporting it as appropriate. Consideration shall be given as to whether the equipment may remain in service.	

Equipment Test:	Small Tools	Test Number 24
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FREQUENCY OF TESTING								
Acceptance	Daily	Weekly	Monthly	3 Monthly	6 monthly	Annually	Before Training	After use
X				X				

Safety Concept
Care must be taken when handling some of the sharp tools (saw blades ect) if practicable gloves should be worn during maintenance.

Cleaning/Maintenance Instructions
Ensure the tools are cleaned on a regular basis and lightly oiled to prevent rust.

Competency Level	Fire-fighter under supervision
Why	Maintain operational Integrity
How	<ul style="list-style-type: none"> • Visually inspect the tools for damage and sharpness. • Replace any saw blade that has been used. • Check that the contents of the box is correct against checklist. • Check the condition of the carry box. • Check the appliance stowage.
Recording Results	Complete individual records and sign completed.
Action & Follow up	Report defect to Officer-in-Charge.
Equipment failing to meet the requirements of a specific inspection and/or test shall be dealt with immediately either by rectifying the fault or reporting it as appropriate. Consideration shall be given as to whether the equipment may remain in service.	

Equipment Test:	Flashlights / Hand-lamps	Test Number 25
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FREQUENCY OF TESTING								
Acceptance	Daily	Weekly	Monthly	3 Monthly	6 monthly	Annually	Before Training	After use
X		X				X		

Safety Concept
Equipment fitted with Batteries should be handled with care if any damage is found on the casing.

Cleaning/Maintenance Instructions
Flashlights / Hand-lamps should be kept clean by dusting as part of the appliance-cleaning program.

Competency Level	Fire-fighter under supervision
Why	Maintain operational Integrity
How	<ul style="list-style-type: none"> Inspect the casing of the torch for damage and that it is free from dirt. Check charging unit is secure and working. Test the light to ensure it is working. Test Lamp by switching on for at least 1 minute to ensure battery is serviceable. Check battery compartment for corrosion. Check Batteries are not leaking. Ensure the lens has no damage. Annually; Change batteries. Check the appliance stowage.
Recording Results	Complete individual records and sign completed.
Action & Follow up	Report defect to Officer-in-Charge.

Equipment failing to meet the requirements of a specific inspection and/or test shall be dealt with immediately either by rectifying the fault or reporting it as appropriate. Consideration shall be given as to whether the equipment may remain in service.

Equipment Test:	P3 Respirator	Test Number 26
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FREQUENCY OF TESTING								
Acceptance	Daily	Weekly	Monthly	3 Monthly	6 monthly	Annually	Before Training	After use
X			X					X

Safety Concept
Following use facemask washed using safety wash

Cleaning/Maintenance Instructions
To be washed using safety wash, rinsed with clean water and dried thoroughly. A new filter must then be fitted.

Competency Level	Fire-fighter under supervision
Why	Maintain operational Integrity
How	<ul style="list-style-type: none"> • Check the head harness for damage and that the straps are fully slackened. • Examine the rubber parts of the facemask for damage especially for splits. • Check the condition of the visor looking for crazing or scratching. • Check that the Orinasal mask is correctly seated and the mushroom valves are in situ. • Check the front cover of the face-piece for damage and security. • Check that the P3 filter is securely fitted and that the tamperproof seal has not been broken on the plug at the front. • Check the storage bag condition and that the number matches to that of the mask. • Annually; Test all of above plus mask must be tested for leaks using a tester unit as laid down by manufacturer. • Check the appliance stowage.
Recording Results	Complete individual records and sign completed.
Action & Follow up	Report defect to Officer-in-Charge.
Equipment failing to meet the requirements of a specific inspection and/or test shall be dealt with immediately either by rectifying the fault or reporting it as appropriate. Consideration shall be given as to whether the equipment may remain in service.	

Equipment Test:	Portable lighting units and Extension Leads.	Test Number 27
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FREQUENCY OF TESTING								
Acceptance	Daily	Weekly	Monthly	3 Monthly	6 monthly	Annually	Before Training	After use
X			X					X

Safety Concept
To test this equipment it is necessary to run an electrical generator. This should be carried out in open air.

Cleaning/Maintenance Instructions
Wipe clean with damp cloth

Competency Level	Fire-fighter under supervision
Why	Maintain operational Integrity
How	<ul style="list-style-type: none"> Inspect the lighting unit for damage. Fully extend the extension lead and visually inspect the full length for damage. Inspect the drum and plugs to ensure there is no damage. Connect the extension lead to a generator. Connect the lighting units to the extension. Start the generator and turn on the lighting units work. Run the lighting units for 15 minutes. Check the appliance stowage.
Recording Results	Complete individual records and sign completed.
Action & Follow up	Report defect to Officer-in-Charge.

Equipment failing to meet the requirements of a specific inspection and/or test shall be dealt with immediately either by rectifying the fault or reporting it as appropriate. Consideration shall be given as to whether the equipment may remain in service.

Equipment Test:	Grab & Salving Hook	Test Number 28
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FREQUENCY OF TESTING								
Acceptance	Daily	Weekly	Monthly	3 Monthly	6 monthly	Annually	Before Training	After use
X				X				X

Safety Concept
Care should be taken when handling due to sharp edges.

Cleaning/Maintenance Instructions
To be cleaned using wire brush or wire wool and wiped with a lightly oiled rag to prevent rust.

Competency Level	Fire-fighter under supervision
Why	Maintain operational Integrity
How	<ul style="list-style-type: none"> • Check the handle shaft for signs of damage. • Examine the head for sharpness and chips. • Check the head is fitted securely to the shaft with no movement. • Check that any extension pole can be attached. • Check the appliance stowage.
Recording Results	Complete individual records and sign completed
Action & Follow up	Report defect to Officer-in-Charge
Equipment failing to meet the requirements of a specific inspection and/or test shall be dealt with immediately either by rectifying the fault or reporting it as appropriate. Consideration shall be given as to whether the equipment may remain in service.	

Equipment Test:	Appliance Dry Powder Units	Test Number 29
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FREQUENCY OF TESTING								
Acceptance	Daily	Weekly	Monthly	3 Monthly	6 monthly	Annually	Before Training	After use
X			X	X		X		X

Safety Concept
Care should be taken when deploying the units from the Fire Appliance. PPE should be worn.

Cleaning/Maintenance Instructions
Wipe clean with damp cloth

Competency Level	Fire-fighter under supervision
Why	Maintain operational Integrity
How	<ul style="list-style-type: none"> • Visually check the unit. Visually check the hose for damage. • Check the applicator valve for free movement. • Check the expellant gas contents • Quarterly; fully deploy the delivery hose, check all operations of controls and delivery devices. • Rewind handles and mechanism. • Annually; It is recommended that the unit is discharged and replenished with fresh powder. • Check the appliance stowage.
Recording Results	Complete individual records and sign completed.
Action & Follow up	Report defect to Officer-in-Charge.
Equipment failing to meet the requirements of a specific inspection and/or test shall be dealt with immediately either by rectifying the fault or reporting it as appropriate. Consideration shall be given as to whether the equipment may remain in service.	

Equipment Test:	Ladder Gantries	Test Number 30
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FREQUENCY OF TESTING								
Acceptance	Daily	Weekly	Monthly	3 Monthly	6 monthly	Annually	Before Training	After use
X		X		X				

Safety Concept
Care should be taken when deploying ladders from Angus ladder Gantries

Cleaning/Maintenance Instructions
Designed for mounting an extending ladder (3m to 9m of closed length) on the roof of a fire appliance, ladder gantries provides an easy-to-operate ladder gantry mechanism to demount the ladder manually at the rear of the appliance providing safe ground level access for the operator . Wipe clean with damp cloth dry and apply silicon spray to the ladder gantry.

Competency Level	Fire-fighter under supervision
Why	Maintain operational Integrity
How	<ul style="list-style-type: none"> • Weekly; wipe clean the gantry and spray silicon onto the runner. • Quarterly; Deploy the gantry fully and remove the ladder. • Visually inspect the gantry, handle and all moving parts. • Clean the gantry with warm soapy water, rinse and dry. • Apply silicon spray to the runner, re- stow the ladder and gantry. • Check the appliance stowage.
Recording Results	Complete individual records and sign completed
Action & Follow up	Report defect to Officer-in-Charge
Equipment failing to meet the requirements of a specific inspection and/or test shall be dealt with immediately either by rectifying the fault or reporting it as appropriate. Consideration shall be given as to whether the equipment may remain in service.	

Equipment Test:	Hydraulic Rescue Tools	Test Number 31
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FREQUENCY OF TESTING								
Acceptance	Daily	Weekly	Monthly	3 Monthly	6 monthly	Annually	Before Training	After use
X	X	X		X		X		X

Safety Concept
Full PPE with visor down when operating hydraulic rescue tools

Cleaning/Maintenance Instructions
To ensure the equipment is in good working order, it is essential that it is properly maintained in accordance with the manufacturer's instructions. An authorized local dealer should be able to provide periodic maintenance and repair services.

Competency Level	Fire-fighter under supervision
Why	Maintain operational Integrity
How	<ul style="list-style-type: none"> • Daily Visual inspection for damage. All fluid levels including: Fuel, Hydraulic fluid and Engine oil. Place fuel shut-off valve in OFF/CLOSED position. Couplers should be clean and function correctly. Clean dust caps and put back in place. • After use perform the following checks: <ul style="list-style-type: none"> ○ Hose Visually inspect hose for damage: Cuts, abrasions or any other damage to outer jacket of hose. Kinks. Couplers should be clean and function correctly. Clean dust caps and put back in place. Bend restrictors in place. Clean any contaminant from the hose. ○ Tools After use perform the following checks: Visually inspect for damage: Cutter blades, spreader tips, ram grip heads. Control handle operation. ○ Tool in safe position (not under pressure): Spreaders/Combi-Tools: Tips slightly open. Rams: Plunger slightly extended. Cutters: Tips slightly overlapping. • Annually; The pump, hose and tools should be subjected to a comprehensive test and inspection as per manufactures instruction. • Check the appliance stowage.
Recording Results	Complete individual records and sign completed.
Action & Follow up	Report defect to Officer-in-Charge.
Equipment failing to meet the requirements of a specific inspection and/or test shall be dealt with immediately either by rectifying the fault or reporting it as appropriate. Consideration shall be given as to whether the equipment may remain in service.	

Equipment Test:	Breathing Apparatus Control Board	Test Number 32
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FREQUENCY OF TESTING								
Acceptance	Daily	Weekly	Monthly	3 Monthly	6 monthly	Annually	Before Training	After use
X	X					X		X

Safety Concept
None

Cleaning/Maintenance Instructions
To be wiped clean after use thoroughly

Competency Level	Fire-fighter under supervision
Why	Maintain operational Integrity
How	<ul style="list-style-type: none"> • Visually inspect the board, checking the clock and calculations table are all clearly visible. • Examine the board for any damage, check the corner plates are in place. • Check that the tally slots are not loose. • Ensure all screws are secure. • Check appliance stowage.
Recording Results	Complete individual records and sign completed.
Action & Follow up	Report defect to Officer-in-Charge.

Equipment failing to meet the requirements of a specific inspection and/or test shall be dealt with immediately either by rectifying the fault or reporting it as appropriate. Consideration shall be given as to whether the equipment may remain in service.

Equipment Test:	Bolt Croppers (Cutters)	Test Number 33
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FREQUENCY OF TESTING								
Acceptance	Daily	Weekly	Monthly	3 Monthly	6 monthly	Annually	Before Training	After use
X				X				X

Safety Concept
Always wear protective clovers when carrying out inspection

Cleaning/Maintenance Instructions
Clean, Lightly oil all moving parts.

Competency Level	Fire-fighter under supervision
Why	Maintain operational Integrity
How	<ul style="list-style-type: none"> • Full visually inspection of, cutting blades, jaws, handles. Ensure cutting blades lineup with no gaps. • Check operations. • Clean and lightly oil all moving parts. • Check the appliance stowage.
Recording Results	Complete individual records and sign completed.
Action & Follow up	Report defect to Officer-in-Charge.
Equipment failing to meet the requirements of a specific inspection and/or test shall be dealt with immediately either by rectifying the fault or reporting it as appropriate. Consideration shall be given as to whether the equipment may remain in service.	

Equipment Test:	Hand Saws and Blades	Test Number 34
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FREQUENCY OF TESTING								
Acceptance	Daily	Weekly	Monthly	3 Monthly	6 monthly	Annually	Before Training	After use
X				X				X

Safety Concept
Always wear protective clovers when carrying out inspection

Cleaning/Maintenance Instructions
Clean, Lightly oil all moving parts.

Competency Level	Fire-fighter under supervision
Why	Maintain operational Integrity
How	<ul style="list-style-type: none"> • Full visually inspection of, saws, cutting blades. • Ensure cutting blades are sharp no teeth are missing. • Ensure blades are facing in the right cutting direction. • Lightly oil all moving parts. • Check the appliance stowage.
Recording Results	Complete individual records and sign completed.
Action & Follow up	Report defect to Officer-in-Charge.
Equipment failing to meet the requirements of a specific inspection and/or test shall be dealt with immediately either by rectifying the fault or reporting it as appropriate. Consideration shall be given as to whether the equipment may remain in service.	

Equipment Test:	Self Contained Breathing Apparatus Sets	Test Number 35
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FREQUENCY OF TESTING								
Acceptance	Daily	Weekly	Monthly	3 Monthly	6 monthly	Annually	Before Training	After use
X	X		X			X	X	X

Safety Concept
None

Cleaning/Maintenance Instructions
Never lay the set directly on the ground, store facemask in a bag

Competency Level	Fire-fighter under supervision
Why	Maintain operational Integrity
How	<ul style="list-style-type: none"> • Daily (Full General Check as manufactures instructions). • Monthly 50 bar operational wear of the set. • Annually Full annual test as detailed by the manufacture. • After Use, Change cylinder, clean and service the set completely followed by a full General Check. • Check the appliance stowage.
Recording Results	Complete individual records and sign completed.
Action & Follow up	Report defect to Officer-in-Charge.
Equipment failing to meet the requirements of a specific inspection and/or test shall be dealt with immediately either by rectifying the fault or reporting it as appropriate. Consideration shall be given as to whether the equipment may remain in service.	

Equipment Test:	Breathing Apparatus Guide line	Test Number 36
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FREQUENCY OF TESTING								
Acceptance	Daily	Weekly	Monthly	3 Monthly	6 monthly	Annually	Before Training	After use
X				X		X		X

Safety Concept
None

Cleaning/Maintenance Instructions
Dry the line completely before storing.

Competency Level	Fire-fighter under supervision
Why	Maintain operational Integrity
How	<ul style="list-style-type: none"> • After use: The line is to be carefully inspected for any signs of wear or deterioration, also check areas of whipping, splices and any hooks. • Quarterly: The line is to be carefully inspected for any signs of wear or deterioration, also check areas of whipping, splices and any hooks. • Annually and on acceptance: The line shall undergo an annual load test, this shall consist of subjecting the line to a tension equivalent to 90 Kg, after which the line is to be carefully inspected for any signs of wear or deterioration, also check areas of whipping, splices and any hooks. • Check the appliance stowage.
Recording Results	Complete individual records and sign completed.
Action & Follow up	Report defect to Officer-in-Charge.
Equipment failing to meet the requirements of a specific inspection and/or test shall be dealt with immediately either by rectifying the fault or reporting it as appropriate. Consideration shall be given as to whether the equipment may remain in service.	

Equipment Test:	Large Sledge Hammer	Test Number 37
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FREQUENCY OF TESTING								
Acceptance	Daily	Weekly	Monthly	3 Monthly	6 monthly	Annually	Before Training	After use
X				X				X

Safety Concept
Care should be taken when handling due to sharp edges.

Cleaning/Maintenance Instructions
To be cleaned using wire brush or wire wool and wiped with a lightly oiled rag to prevent rust.

Competency Level	Fire-fighter under supervision
Why	Maintain operational Integrity
How	<ul style="list-style-type: none"> • Check the handle shaft for signs of damage. • Check the head is fitted securely to the shaft with no movement. • Check the appliance stowage.
Recording Results	Complete individual records and sign completed.
Action & Follow up	Report defect to Officer-in-Charge.
Equipment failing to meet the requirements of a specific inspection and/or test shall be dealt with immediately either by rectifying the fault or reporting it as appropriate. Consideration shall be given as to whether the equipment may remain in service.	

Equipment Test:	Casualty Carrying Sheets/ Stretchers	Test Number 38
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FREQUENCY OF TESTING								
Acceptance	Daily	Weekly	Monthly	3 Monthly	6 monthly	Annually	Before Training	After use
X				X				X

Safety Concept
Care should be taken with manual handling

Cleaning/Maintenance Instructions
Ensure equipment in clean, wipe clean with damp cloth

Competency Level	Fire-fighter under supervision
Why	Maintain operational Integrity
How	<ul style="list-style-type: none"> Visually inspect to ensure all stitching is in good order, there are no holes. When sheets/stretchers are folded make sure you check folds for wear and tears. Stretcher poles, Make sure there is a pair. Visually check that poles are straight and not bent or creased. Make sure they are free from rust.
Recording Results	Complete individual records and sign completed.
Action & Follow up	Report defect to Officer-in-Charge.
Equipment failing to meet the requirements of a specific inspection and/or test shall be dealt with immediately either by rectifying the fault or reporting it as appropriate. Consideration shall be given as to whether the equipment may remain in service.	

Equipment Test:	Inflatable Tent/Structures	Test Number 39
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FREQUENCY OF TESTING								
Acceptance	Daily	Weekly	Monthly	3 Monthly	6 monthly	Annually	Before Training	After use
X				X				X

Safety Concept
Care should be taken when handling.

Cleaning/Maintenance Instructions
Ensure tents/structures are store away dry and are not overly folded.

Competency Level	Fire-fighter under supervision
Why	Maintain operational Integrity
How	<ul style="list-style-type: none"> • Unfold the tent/structure on a clear dry surface. • Visually inspect overall condition; joints/seams examine all stitching. • Visually examine inflation motor and connections. Check power method for fuel. • Start to inflate the tent/structure, continue to examine during inflation process. • Once inflated visually inspect ventilation, windows, door, anchor points, ground sheet. • Leave inflated for 15 minutes and closely monitor complete function. • Deflate fully, refold and replace in storage pack/ bag. Check power source, refill with fuel if required.
Recording Results	Complete individual records and sign completed.
Action & Follow up	Report defect to Officer-in-Charge.
Equipment failing to meet the requirements of a specific inspection and/or test shall be dealt with immediately either by rectifying the fault or reporting it as appropriate. Consideration shall be given as to whether the equipment may remain in service.	

Equipment Test:	Breathing Apparatus Compressor	Test Number 40
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FREQUENCY OF TESTING								
Acceptance	Daily	Weekly	Monthly	3 Monthly	6 monthly	Annually	Before Training	After use
X	X	X			X			X

Safety Concept
<p>Care should be taken when carrying out any checks that require opening the compressor cabinet, ensure that the power supply is isolated at the master switch.</p> <p>Care and the use of correct procedures must be strictly observed while carrying out any cylinder recharging, checking connections and that the appropriate valves are operated in the correct manner due to the high pressures involved.</p> <p>Following checking the oil level, wash hands with soap and water if contaminated with the oil. The same applies when emptying any residue catch tank.</p> <p>Only competent personnel are permitted to use the compressor.</p>

Cleaning/Maintenance Instructions
Ensure that the compressor is kept clean as well as the inside and outside of the cabinet; simply wipe down using paper towel.

Competency Level	Supervisor/BA Engineer/Instructor
Why	Maintain operational Integrity
How	<ul style="list-style-type: none"> Before use: Carry out visual inspection of compressor looking at condition of hoses ensuring that the rubber washers are in situ; check that all the valves are closed down. Follow fully the manufactures operations manual. Maintain a record of the number of each cylinder recharged and by whom. Record the hours the compressor is in use.
Recording Results	Complete individual records and sign completed
Action & Follow up	Report defect to Officer-in-Charge
Equipment failing to meet the requirements of a specific inspection and/or test shall be dealt with immediately either by rectifying the fault or reporting it as appropriate. Consideration shall be given as to whether the equipment may remain in service.	

Equipment Test:	Apron Emergency Telephones	Test Number 41
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FREQUENCY OF TESTING								
Acceptance	Daily	Weekly	Monthly	3 Monthly	6 monthly	Annually	Before Training	After use
X				X				

Safety Concept
Because of the location of the Apron Telephones, park the Fire Appliance or other vehicle in a safe position with the Obstruction lights on, the person to carry out the telephone test must wear a high visibility jacket. Hearing protection may be required. Care must be taken of aircraft and Apron vehicle movements

Cleaning/Maintenance Instructions
Clean telephone handset with a damp cloth.

Competency Level	Fire-fighter under supervision
Why	Maintain operational Integrity
How	<ul style="list-style-type: none"> To test lift the receiver and dial the Watchroom and talk into the phone, make sure that the clarity of speech is good at either end. Check the condition of the phone box and ensure that the Airports Emergency number is clearly visible as are any other required numbers.
Recording Results	Complete individual records and sign completed..
Action & Follow up	Report defect to Officer-in-Charge.
Equipment failing to meet the requirements of a specific inspection and/or test shall be dealt with immediately either by rectifying the fault or reporting it as appropriate. Consideration shall be given as to whether the equipment may remain in service.	

Equipment Test:	Salvage Sheets	Test Number 42
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FREQUENCY OF TESTING								
Acceptance	Daily	Weekly	Monthly	3 Monthly	6 monthly	Annually	Before Training	After use
X				X				X

Safety Concept
None

Cleaning/Maintenance Instructions
Wash with soap and water if necessary and dry thoroughly.

Competency Level	Fire-fighter under supervision
Why	Maintain operational Integrity
How	<ul style="list-style-type: none"> • Unfold sheet and carry out full visual inspection. Ensure all rope ties are attached. • Ensure Sheet is clean and dry. • Re-Fold Sheet in prescribed manner. • Check the appliance stowage.
Recording Results	Complete individual records and sign completed.
Action & Follow up	Report defect to Officer-in-Charge.
Equipment failing to meet the requirements of a specific inspection and/or test shall be dealt with immediately either by rectifying the fault or reporting it as appropriate. Consideration shall be given as to whether the equipment may remain in service.	

Equipment Test:	110 Volt Generators	Test Number 43
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FREQUENCY OF TESTING								
Acceptance	Daily	Weekly	Monthly	3 Monthly	6 monthly	Annually	Before Training	After use
X				X				X

Safety Concept
Beware of petrol and oil contamination, also risk of injury from pull start

Cleaning/Maintenance Instructions
Wipe clean with cloth

Competency Level	Fire-fighter under supervision
Why	Maintain operational Integrity
How	<ul style="list-style-type: none"> • Carry out Full Visual Inspection. • Ensure oil and fuel levels are correct. • Start generator and run under load for 15 minutes. • Ensure the test is carried out under load. • Ensure all electrical output sockets are in good condition. • Check the appliance stowage.
Recording Results	Complete individual records and sign completed.
Action & Follow up	Report defect to Officer-in-Charge.
Equipment failing to meet the requirements of a specific inspection and/or test shall be dealt with immediately either by rectifying the fault or reporting it as appropriate. Consideration shall be given as to whether the equipment may remain in service.	

Equipment Test:	Low Pressure Airbags	Test Number 44
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FREQUENCY OF TESTING								
Acceptance	Daily	Weekly	Monthly	3 Monthly	6 monthly	Annually	Before Training	After use
X				X				X

Safety Concept
Always use full PPE Including Fire helmet when carrying out standard test of Low-pressure airbags.

Cleaning/Maintenance Instructions
Wipe clean with damp cloth and dry thoroughly.

Competency Level	Fire-fighter under supervision
Why	Maintain operational Integrity
How	<ul style="list-style-type: none"> • Carry out full visual inspection of the Air Bags, connections, control panel and air-lines. • Connect the Low Pressure Airbags to the control unit and Air Cylinder. • Operate the Airbags by inflating to the maximum, ensuring no leaks. • Check appliance stowage.
Recording Results	Complete individual records and sign completed.
Action & Follow up	Report defect to Officer-in-Charge.
Equipment failing to meet the requirements of a specific inspection and/or test shall be dealt with immediately either by rectifying the fault or reporting it as appropriate. Consideration shall be given as to whether the equipment may remain in service.	

Equipment Test:	Water Extinguisher (stored pressure type)	Test Number 45
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FREQUENCY OF TESTING								
Acceptance	Daily	Weekly	Monthly	3 Monthly	6 monthly	Annually	Before Training	After use
X						X		X

Safety Concept
Care must be taken when moving extinguisher using correct manual handling techniques.

Cleaning/Maintenance Instructions
Wipe clean with damp cloth

Competency Level	Fire-fighter under supervision
Why	Maintain operational Integrity
How	<ul style="list-style-type: none"> • On acceptance: check contents and pressure are correct and note in records last test date. • After use: check as annual test, replenish contents and re-pressurise. • Annual: Check the general condition of the container and the instructions for use and other labeling, the condition of the discharge hose and nozzle also check the trigger mechanism and safety pin. • Check the wall-mounting bracket or cabinet and check for appropriate signage. • Discharge the contents every four years. Following discharge check the inside of the container for signs of corrosion before replenishing.
Recording Results	Complete individual records and sign completed.
Action & Follow up	Report defect to Officer-in-Charge.

Equipment failing to meet the requirements of a specific inspection and/or test shall be dealt with immediately either by rectifying the fault or reporting it as appropriate. Consideration shall be given as to whether the equipment may remain in service.

Equipment Test:	Foam Extinguisher (stored pressure type)	Test Number 46
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FREQUENCY OF TESTING								
Acceptance	Daily	Weekly	Monthly	3 Monthly	6 monthly	Annually	Before Training	After use
X						X		X

Safety Concept
Care must be taken when moving extinguisher using correct manual handling techniques.

Cleaning/Maintenance Instructions
Wipe clean with damp cloth

Competency Level	Fire-fighter under supervision
Why	Maintain operational Integrity
How	<ul style="list-style-type: none"> • On acceptance: check contents and pressure are correct and note in records last test date. • Annual: Check the general condition of the container and the instructions for use and other labeling, the condition of the discharge hose and nozzle also check the trigger mechanism and safety pin. • After use: check as annual test, replenish contents and re-pressurise. • Check the wall-mounting bracket or cabinet and check for appropriate signage. • Discharge the contents every four years. Following discharge check the inside of the container for signs of corrosion before replenishing.
Recording Results	Complete individual records and sign completed.
Action & Follow up	Report defect to Officer-in-Charge.

Equipment failing to meet the requirements of a specific inspection and/or test shall be dealt with immediately either by rectifying the fault or reporting it as appropriate. Consideration shall be given as to whether the equipment may remain in service.

Equipment Test:	Dry Powder Extinguisher Co2 Cartridge)	Test Number 47
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FREQUENCY OF TESTING								
Acceptance	Daily	Weekly	Monthly	3 Monthly	6 monthly	Annually	Before Training	After use
X						X		X

Safety Concept
Care must be taken when moving extinguisher using correct manual handling techniques.

Cleaning/Maintenance Instructions
Wipe clean with damp cloth

Competency Level	Fire-fighter under supervision
Why	Maintain operational Integrity
How	<ul style="list-style-type: none"> • On acceptance: Check the condition, the contents and weigh the Co2 Cartridge. • Annual: Check the general condition of the container and the instructions for use and other labeling, the condition of the discharge hose and nozzle also check the trigger mechanism and safety pin. • Check the wall-mounting bracket or cabinet and check for appropriate signage. • Discharge contents every five years. Following discharge check the inside of the container for signs of corrosion before replenishing.
Recording Results	Complete individual records and sign completed.
Action & Follow up	Report defect to Officer-in-Charge.
Equipment failing to meet the requirements of a specific inspection and/or test shall be dealt with immediately either by rectifying the fault or reporting it as appropriate. Consideration shall be given as to whether the equipment may remain in service.	

Equipment Test:	Carbon Dioxide Extinguisher	Test Number 48
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FREQUENCY OF TESTING								
Acceptance	Daily	Weekly	Monthly	3 Monthly	6 monthly	Annually	Before Training	After use
X						X		X

Safety Concept
Care must be taken when moving extinguisher using correct manual handling techniques. When discharging beware of noise and ice build-up.

Cleaning/Maintenance Instructions
Wipe clean with damp cloth

Competency Level	Fire-fighter under supervision
Why	Maintain operational Integrity
How	<ul style="list-style-type: none"> • On acceptance: Check the condition and weigh the Co2 cylinder. • After use: The extinguisher must be sent to manufacturer for replenishing and another extinguisher put in its place. • Annual: Check the general condition of the container and the instructions for use and other labeling, the condition of the discharge hose and nozzle also check the trigger mechanism and safety pin. Weigh the extinguisher. • Check the wall-mounting bracket or cabinet and check for appropriate signage. • Discharge contents every five years then follow after use procedure.
Recording Results	Complete individual records and sign completed.
Action & Follow up	Report defect to Officer-in-Charge.
Equipment failing to meet the requirements of a specific inspection and/or test shall be dealt with immediately either by rectifying the fault or reporting it as appropriate. Consideration shall be given as to whether the equipment may remain in service.	

Equipment Test:	Apron Fire Trolleys	Test Number 49
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FREQUENCY OF TESTING								
Acceptance	Daily	Weekly	Monthly	3 Monthly	6 monthly	Annually	Before Training	After use
X					X			X

Safety Concept
Care must be taken when moving extinguisher using correct manual handling techniques. When discharging beware of noise and ice build-up.

Cleaning/Maintenance Instructions
Wipe clean with damp cloth

Competency Level	Fire-fighter under supervision
Why	Maintain operational Integrity
How	<ul style="list-style-type: none"> • On acceptance: check contents and pressure are correct and note in records last test date. • 6-Monthly: Check the general condition of the container and the instructions for use and other labeling, the condition of the discharge hose and nozzle also check the trigger mechanism and safety pin. Check the location, signage and access. • Ensure the wheels are free and any handles have the necessary stability. • After use: check as annual test, replenish contents and re-pressurise. • Discharge the contents every four years. Following discharge check the inside of the container for signs of corrosion before replenishing.
Recording Results	Complete individual records and sign completed.
Action & Follow up	Report defect to Officer-in-Charge.
Equipment failing to meet the requirements of a specific inspection and/or test shall be dealt with immediately either by rectifying the fault or reporting it as appropriate. Consideration shall be given as to whether the equipment may remain in service.	

Equipment Test:	Rubber Gloves	Test Number 50
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FREQUENCY OF TESTING								
Acceptance	Daily	Weekly	Monthly	3 Monthly	6 monthly	Annually	Before Training	After use
X				X				X

Safety Concept
None

Cleaning/Maintenance Instructions
Wipe clean with damp cloth

Competency Level	Fire-fighter under supervision
Why	Maintain operational Integrity
How	<ul style="list-style-type: none"> • On acceptance: Carry out full visual inspection. Check for any cracking. They should be carefully examined, both inside and out, to detect cuts or scratches. • Care should be taken not to wrench the fingers of the gloves apart nor subject the gloves to any undue strain. • Any damage to the gloves, then the gloves are to be removed from service. • Care should also be given to any operational life dates printed on the gloves. • Check appliance stowage.
Recording Results	Complete individual records and sign completed.
Action & Follow up	Report defect to Officer-in-Charge.
Equipment failing to meet the requirements of a specific inspection and/or test shall be dealt with immediately either by rectifying the fault or reporting it as appropriate. Consideration shall be given as to whether the equipment may remain in service.	

Equipment Test:	Light Portable Fire Pumps	Test Number 51
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FREQUENCY OF TESTING								
Acceptance	Daily	Weekly	Monthly	3 Monthly	6 monthly	Annually	Before Training	After use
X				X				X

Safety Concept
None

Cleaning/Maintenance Instructions
Wipe clean with damp cloth

Competency Level	Fire-fighter under supervision
Why	Maintain operational Integrity
How	<ul style="list-style-type: none"> All lengths of suction should be coupled together to the suction inlet of the pump with a blank cap in position at the end of the last length of hose. All deliveries should be closed. The pump/primer should be run at priming speed rpm for not more than 45 seconds. Priming should cease after obtaining 0.8 Bar or more on the vacuum, the compound gauge should be watched, if the needle falls back to 0.3 Bar in less than a minute an excessive air leak is present. This may be due to defective pump glands, leak at the gauges, delivery valves or a fault at the suction. If a leak is present all connections should be checked and deliveries checked that they are closed. Any leak in the suction hose can be found by carrying out a water pressure test. This test must not exceed 3 Bar. The suction hose should be connected to a pressure supply with a blank cap fitted to one end and the pressure increased to a pressure of no more than 3 Bar.
Recording Results	Complete individual records and sign completed.
Action & Follow up	Report defect to Officer-in-Charge.
Equipment failing to meet the requirements of a specific inspection and/or test shall be dealt with immediately either by rectifying the fault or reporting it as appropriate. Consideration shall be given as to whether the equipment may remain in service.	

Equipment Test:	Ventilation & Cooling Fans	Test Number 52
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FREQUENCY OF TESTING								
Acceptance	Daily	Weekly	Monthly	3 Monthly	6 monthly	Annually	Before Training	After use
X				X				X

Safety Concept
Beware of petrol and oil contamination, also risk of injury from pull start

Cleaning/Maintenance Instructions
Wipe clean with cloth

Competency Level	Fire-fighter under supervision
Why	Maintain operational Integrity
How	<ul style="list-style-type: none"> • Carry out full visual inspection. • Ensure oil and fuel levels are correct. • Start and run under load for 15 minutes. • Check the appliance stowage.
Recording Results	Complete individual records and sign completed.
Action & Follow up	Report defect to Officer-in-Charge.
Equipment failing to meet the requirements of a specific inspection and/or test shall be dealt with immediately either by rectifying the fault or reporting it as appropriate. Consideration shall be given as to whether the equipment may remain in service.	