

ARC-VIMP BUILDING A1 TRAINING CENTRE FIRE ASSESSMENT SPECIFICATIONS

Date: 08 December 2023

SPECIFICATIONS FOR THE ARC-VIMP FIRE FIGHTING EQUIPMENT INSPECTION, SERVICING AND CERTIFICATION:

Fire extinguishers, Fire hydrants, fire hoses, fire reels, couplings, valves etc.

Title: ARC-VIMP Firefighting equipment servicing and inspection and certification of compliance: Fire extinguishers Fire hydrants, hoses, reels, couplings, valves etc.

The following specifications must be closely adhered to by the accredited service provider:

1. Fire protection equipment must be serviced by a duly accredited service provider and accredited service technicians as stipulated in the OHSE Act: The ***Occupational Health and Safety Act*** no 85 of 1993,
 - a. The Occupational Health and Safety Act 1993 (Act 85 of 1993) and Vessels under Pressure Regulation 11(1) stipulates "No person shall fill, recharge, recondition, modify, repair, inspect or test any handheld fire extinguisher unless a holder of a permit issued by the South African Bureau of Standards in terms of SABS 1475".
 - b. (1) No user shall use, require or permit the use of a fire extinguisher unless designed, constructed, filled, recharged, reconditioned, modified, repaired, inspected or tested in accordance with the relevant safety standard incorporated into these Regulations under section 44 of the Act.
2. Comply with SANS 1475-1:2010 & SANS 1475-2:2010 codes and SAQCC accredited Technicians.
3. SANS 0400-1990: TT37 amount, size and type of fire extinguishers

SANS 1475-1:2006 – regulation: production of reconditioned fire-fighting equipment fire extinguishers servicing intervals.

4. SANS 10105-1:2005 - use and control of firefighting equipment - Part 1: Portable and wheeled (mobile) fire extinguishers
5. SANS 1186-1:2008 –symbolic signs (Part 1: Standard signs and general requirements)
6. NFPA 10 - National Fire Protection Association (NFPA) regulations
7. Valid proof of all relevant certifications and accreditations must accompany all applications.
8. Valid Registration Certificate issued by the South African Qualification & Certification Committee –Fire.
9. Valid SAQCC Fire identification cards for fire technicians.
10. The SAQCC fire technician must be associated to the same company as is recorded on the identification card as it illegal to use different company name to that on the card.

11. SPECIFIC REQUIREMENTS

- a. ARC-VIMP Training centre (Building A1) and surrounding area to be inspected in terms of firefighting equipment and apparatus.
- b. A DETAILED Register (copy supplied, both electronic Excel, and hard copy) listing amongst other information the following
- c. TRAINING CENTRE

- i. all fire extinguishers and fire hydrants items must be listed for each and every inspected and serviced fire protection equipment and, must include amongst other details, the following information for each item:
 - ii. Serial / identification number
 - iii. Location (e.g. Building Name/Room number etc.).
 - iv. Type of fire extinguisher
 - v. Make and model
 - vi. Capacity
 - vii. Mass (weight)
 - viii. Date of last inspection,
 - ix. Date of last pressure test / hydro test
 - x. Pressure test conducted Y/N and result
 - xi. Date of next pressure test (5 year / 12 year interval)
 - xii. All ARC-identification asset numbers / markings
 - xiii. Fire extinguisher bracket number
 - xiv. Inspection result
 - xv. Date of next service
 - xvi. Pressure test certificate affixed
 - xvii. Service / inspection certificate affixed
 - xviii. Replacement date

- 1. Add directional signage mark escape routes and provide. SABS approved signage.
- 2. Provide escape doors with panic bars for rooms that will be occupied by more than 50 people.
- 3. Approved locking devices to be provided to escape doors.
 - a. Locking devices that are acceptable should be capable of being operated in a single movement without the use of a key. Keys in break glasses are not acceptable.
- 4. Exit landings in front of the doors such that occupants do not immediately step down as they exit the doors. The landing to be at least 900 mm in length and as wide as the door.
- 5. Access ramps to be not steeper than 1:12 and must comply to SANS 10400-S.
- 6. Hand rails to be provide both sides for stairs wider than 1200 mm.
- 7. SABS approved directional fire equipment signage to be fitted to all relevant areas of Training centre building.
- 8. Fire hose reels are provided outside of the building.
 - a. Fire hose reels to be added and where required moved to be ensure 30 m reach to all areas within the building.
 - b. Fire hose reels to be fitted and coupled on first floor building
 - c. Fire hose reels to be fitted and coupled at semi-basement level.
- 9. Servicing and repair of all fire extinguishers equipment within and around Building A1: Training centre.
- 10. Provide 4,5 kg DCP fire extinguishers at a rate of 1 per 200 m².
- 11. Provide adequate pumps and tank for the fire hydrant to ensure that a flow of 20 litres/s at 300 kPa for 60 minutes is achieved.
- 12. Provide signage for the fire hydrants.
- 13. We recommend that a tank with a minimum effective capacity of 72000 litres be provided to serve fire hydrants. A quantity for domestic supply can then be added to the tank to ensure continuous circulation of the water.

14. Alternatively further investigations by a Civil and Structural Engineer to check if the installed sectional steel tanks can be used to provide for fire hydrants. This will involve assessing the overall demand for water in the facility.
15. Pumps for the fire hydrant to ensure that a flow of 20 litres/s at 300 kPa is achieved to be provided.
16. Jockey pump to ensure a flow of 1 litre/s at 300 kPa to be provided for fire hose reels.
17. Pumps to be on standby power or provide a diesel-powered pump as backup.
18. No fire detection system was identified in the building. Manual call and alarm system points are required in the building as specified in SANS 10400-T:2020.
19. Recommendations
20. Install fire detection system in the building.
21. **FINAL REQUIREMENT:** A fully accredited Certificate of Compliance (CoC) must be issued for Building A 1 ARC-VIMP Training centre. Failure to provide the CoC will delay payment.



DATE: 08/12/2023

Signature: Mr Evan der Walt: Acting OHSE officer,

Signature: Mr Douw Nel: ARC-CO-SM Facilities – OHSE DATE:/..... / 2023