

SECTION 3 - DESCRIPTION OF INSTALLATION COVERED BY THIS REPORT
(Add additional pages, specification references or drawings (layout of installation on premises), etc., where applicable)

NUMBER OF CIRCUITS OR POINTS COVERED BY THIS REPORT			
Circuits	Existing installation		New/alterd/temporary installation
	Main distribution board	Sub-distribution boards	Main distribution board Sub-distribution boards
Lighting circuits	10	10	
Lighting points	20	20	
Socket-outlet circuits	2	2	
Three-phase socket-outlet circuits	1	1	
Socket-outlets for critical applications			
Mixed circuits (number of)			
Motor circuits			
Control circuits			
Air-conditioning circuits			
Motor controlled assembly circuits			
Transformer circuits:			
Heating circuits			
Fan circuits			
Elevator / escalator circuits			
Signage circuits			
Fixed appliance circuits:			
Cooking			
Geyser			
Boiler			
Other			
Earth leakage:			
Overhead busbars			
Alternative power supply connections			
Other circuits			

SECTION 4 - INSPECTION AND TESTS (new and existing installations)

Inspection	Additional tests added	Yes	No	New/alterd/ temporary installation
NOTE Answer "Yes" or "N/A". The report shall not be issued if any "No" answers appear.				
1. Accessible components are correctly selected.				
2. All protection devices are of correct rating.				
3. All protection devices are capable of withstanding the prospective fault level.				
4. Conductors are of the correct rating and current-carrying capacity for the protective devices and connected load.				
5. Components have been correctly installed.				
6. Disconnecting devices are correctly located and all switchgear switches the phase conductors.				
7. Different circuits are separated electrically.				
8. Connection of conductors and earthing and bonding are mechanically sound.				
9. Connection of conductors and earthing and bonding are electrically continuous.				
10. Fuses, switches, terminals, earth leakage units, circuit-breakers, distribution boards are correctly and permanently marked or labelled.				
11. Where an electrical circuit passes through a fire barrier, the integrity of the fire barrier has been maintained.				
12. Safety and emergency lighting and signs are functioning correctly.				
13. (a) In the case of new installations or additions or alterations to existing installations, the new, added or altered installation complies with this part of SANS 10142, or				
(b) in the case of installations which existed prior to the publication of this edition of SANS 10142, the installation complies with the part of SANS 10142 and is reasonably safe.				
14. Where an alternative supply is installed, it complies with the requirements in the code of practice for change-over switch and indicator.				
15. Is the position of the readily accessible earthing terminal for earth connections of other services (see 6.6.1.2, (f))?				

Tests		Readings / Results	
Units	Instrument	Existing installation	New / altered / temporary installation
1. Continuity of bonding	Q MTSO Mega-ohm	0.1	
2. Resistance of earth continuity conductor	Q MTSO Mega-ohm	0.1	
3. Resistance of ring circuits (if applicable)	Q MTSO Mega-ohm	0.1	
4. Earth loop impedance test at main switch	Q MTSO Mega-ohm	0.1	
5. Earth loop impedance test at sub-distribution boards	Q MTSO Mega-ohm	0.1	
6. Insulation resistance (IR) of the installation (IR) of the installation	Q MTSO Mega-ohm	0.1	
7. Earth resistance at electrode (if required)	Q MTSO Mega-ohm	0.1	
8. Insulation resistance	Q MTSO Mega-ohm	0.1	
9. Voltage at main distribution board with no load for each phase to neutral	V MTSO Mega-volt	0.1	
10. Voltage at main distribution board with load for each phase to neutral	V MTSO Mega-volt	0.1	
11. Voltage at available fault condition as calculated for full load for each phase to neutral	V MTSO Mega-volt	0.1	
12. Operation of earth leakage units	mA MTSO Mega-amp	0.1	
13. Operation of earth leakage test button	mA MTSO Mega-amp	0.1	
14. Polarity of points of consumption	mA MTSO Mega-amp	0.1	
15. Phase rotation at points of consumption for three-phase systems	mA MTSO Mega-amp	0.1	
16. All switching devices, make-and-break circuits	mA MTSO Mega-amp	0.1	

Comments: _____

Comments on parts of the installation not covered by this report: _____

SECTION 5 - RESPONSIBILITY
NOTE - For existing installations, complete only 5.4. For new/alterd/temporary installations, if no signature appears in 5.1 to 5.3 the signatory of 5.4 takes responsibility. Where there are five or more installations on the same supply, a competent person signs 5.5.

5.1 DESIGN. I, being the person responsible for the DESIGN of the electrical installation, particulars of which are described in section 3 of this form, CERTIFY that the work for which I have been responsible, is to the best of my knowledge and belief in accordance with the relevant legislation. The extent of my liability is limited to the installation described in section 3 of this form.

For the DESIGN of the installation:

Name (in block letters): _____ Position: _____
Address: _____
Signature: _____ Date: _____

Professional Registration No. (where applicable): _____

5.2 MATERIAL SPECIFICATION / PROCUREMENT. I/We, being the person(s) responsible for the MATERIAL SPECIFICATION / PROCUREMENT for the electrical installation, particulars of which are described in section 3 of this form, CERTIFY that the equipment that I/we have procured, is to the best of my/our knowledge and belief in accordance with the relevant legislation. The extent of liability of the signatory is limited to the installation described in section 3 of this form.

For the MATERIAL SPECIFICATION / PROCUREMENT:

Name (in block letters): _____ Position: _____
For and on behalf of: _____ Address: _____
Signature: _____ Date: _____

5.3 CONSTRUCTION. I/We, being the person(s) responsible for the CONSTRUCTION of the electrical installation, particulars of which are described in section 3 of this form, CERTIFY that the work for which I/we have been responsible, is to the best of my/our knowledge and belief in accordance with the relevant legislation. The extent of liability of the signatory is limited to the installation described in section 3 of this form.

For the CONSTRUCTION of the installation:

Name (in block letters): _____ Position: _____
For and on behalf of contractor: _____ Address: _____
Signature: _____ Date: _____

5.4 INSPECTION AND TESTS. I, being the person responsible for the INSPECTION AND TESTING of the electrical installation, particulars of which are described in section 3 of this form, CERTIFY that the inspection and testing were done in accordance with this part of SANS 10142, that the results obtained and reflected on this report are correct and indicate

☐ (for installation work performed since the publication of this part of SANS 10142), compliance with this standard or principles of this standard and is reasonably safe.

The extent of my liability is limited to the installation described in section 3 of this form.

Name of registered person: _____ Registration Certificate No.: _____
(in block letters)

Type of registration: ☐ Master installation electrician ☐ Installation electrician ☐ Single-phase tester

Signature: _____ Date: _____

5.5 COMPLIANCE OF INSTALLATION FROM COMMENCEMENT TO COMMISSIONING. I, being the person responsible to ensure that the electrical installation, particulars of which are described in section 3 of this form and which is one of five or more installations on the same supply, CERTIFY that the installation was done in accordance with SANS 10142-1.

☐ An Approved Inspector/Authority for electrical installations

Indicate competency

☐ A competent person as defined

☐ A professionally registered person

Category of professional registration: _____ Registration No.: _____

Name (in block letters): _____ Address: _____

Signature: _____ Date: _____