



Country report

**SOUTH AFRICA**

**Copperalliance  
November 2021**

**Questionnaire to estimate the level (%) of the Safety of Users of Electricity in Dwellings in Countries**

The Electrical Safety Barometer consists of 13 essential criteria. Each of these criteria has a weighting factor to enable the calculation of a general score for each country. Both FISUEL and world experts endorse these criteria and the weighting factors. With the assistance of local experts, we are applying the barometer in an increasing number of countries.

Explanation of the **13 major criteria** go to -->

<https://www.safetybarometer.org/criteria/>

Enter a number of the following criteria (1, 2, 3 or 4) in the yellow cells "column criteria"

- 4 = Fulfilled Criteria** : existing criteria in your country (score 100%)
- 3 = Partially fulfilled Criteria** : part of the criteria existing in your country (score 50%)
- 2 = Not met Criteria** : criteria known but unapplied (score 10%)
- 1 = Unknown Criteria** : criteria inexisting (score 0%)

Number of criteria	<b>4 - Fulfilled</b>	<b>3 - Partially</b>	<b>2 - Unapplied</b>	<b>1 - Unknown</b>		<b>Level of Electrical Safety in Dwellings</b>
	<b>8</b>	<b>1</b>	<b>4</b>	<b>0</b>		<b>64%</b>

Criteria	Question	Weight	Criteria	Score
1- Standards & rules	Are standards and rules in place?	10	<b>4</b>	<b>10%</b>
<b>Comments</b> : All installations must be done according to the South African Bureau of Standards specifications				
2- Initial verification	Is an initial inspection required?	10	<b>4</b>	<b>10%</b>
<b>Comments</b> : Any new domestic or industrial building must be approved by an qualified inspector prior to occupation				
3- Periodic inspection	Is a periodic inspection required?	7,5	<b>2</b>	<b>1%</b>
<b>Comments</b> : There is no periodic inspection unless alterations are made.				
4- Inspection report	Must there be proof of the inspection by the delivery of an inspection report?	5	<b>4</b>	<b>5%</b>
<b>Comments</b> : Before any building may be occupied, a Certificate of Compliance must be issued by a qualified electrician.				
5- Inspection for existing installations	Is there a mechanism for inspection of existing installations?	10	<b>2</b>	<b>1%</b>
<b>Comments</b> : No. Existing buildings are not inspected unless alterations are done or the buildings are sold.				
6- Inspector	Must the person carrying out the inspection be a qualified inspector?	7,5	<b>4</b>	<b>8%</b>
<b>comments</b> : Yes				

7- Electrical contractor or installer	Must the electrical contractor or installer be a qualified person?	5	4	5%
Comments : Yes				
8- Role of utilities	Does the electric utility only connect the installation after having received a positive inspection report?	10	4	10%
Comments : No building may be occupied without an official CoC.				
9- Consumer education	Are consumers educated on the dangers of electricity?	5	3	3%
comments : No, but the use of SABS approved fittings are encouraged as well as the installation thereof.				
10- Regulation	Is regulation in place that imposes standards for electrical installations and initial verification?	5	4	5%
Comments : Yes.				
11- Labelling and certification	Are products in the market adequately labeled for electrical safety, and is this labeling system understood?	5	2	1%
Comments : Some products are labeled but there are many installations by unqualified persons using sub-standard products				
12- Role of manufacturers	Do manufacturers actively engage for electrical safety in the marketplace?	5	4	5%
Comments : Manufacturers comply but too many illegal electrical products and components are imported by distributors.				
13- Market surveillance	Is there adequate action on market surveillance from the authorities?	15	2	2%
Comments : No.Very little is done by Government. Industry have set up Associations to perform this task without official support				

		Africa
Classification	Criteria	South Africa
	23	
1	1- Standards & rules	4
2	2- Initial verification	4
3	3- Periodic inspection	2
4	4- Inspection report	4
5	5- Inspection for existing installations	2
6	6- Inspector	4
7	7- Electrical contractor or installer	4
8	8- Role of utilities	4
9	9- Consumer education	3
10	10- Regulation	4
11	11- Labelling and certification	2
12	12- Role of manufacturers	4
13	13- Market surveillance	2

