

Country report

BRAZIL

Fisuel February 2025

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.

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Explanation of the 13 major criteria go to> https:						//www.safetybarometer.org/criteria/				
	Enter	a number of th	e following crite	eria (1, 2, 3 or 4)	in the yellow o	ells "column cr	iteria"			
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	4 - Fulfilled	3 - Partially 2 - Unapplied 1 - Unknown				Level of Electrical Safety in Dwellings				
criteria	6	4 3 0				61%				
Criteria			Que	stion	Weight	Criteria	Score			
1- Standards & rules		Are standards	and rules in pla	ce?	10	4	10%			
Comments: Brazil has two standards, one for power entrance (Utility) and another for inside building installation (NBR 5410 based on IEC 60364)										
2- Initial verification		Is an initial inspection required?				10	4	10%		
Comments: In the Utility side is imperative, inside the building is provided by standard										
3- Periodic inspection		Is a periodic inspection required?				7,5	2	1%		
Comments: In the power entrance no, is on the consumer side it is expected, but not always is done										
4- Inspection report		Must there be inspection rep		spection by the	5	3	3%			
Comments: Only the part of utility										
5- Inspection for existing Is there a mechanism for inspection of existing installations?			g	10	2	1%				
Comments : No										
6- Inspector		Must the person carrying out the inspection be a qualified inspector?			7,5	2	1%			
Comments: yes only qualified professional is enable for this task										

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	3	5%			
Comments: The utility only demandas the inspection until the meetreing no inisde the building							
9- Consumer education	Are consumers educated on the dangers of electricity?	5	4	5%			
Comments: Since 2005 is obligation due a safety course (40h) accordind NR-10 (Safety standard)							
10- Regulation	Is regulation in place that imposes standards for electrical installations and initial verification?	5	4	5%			
Comments: yes for both utility and consummer							
11- Labelling and certification	Are products in the market adequately labeled for electrical safety, and is this labeling system understood?	5	4	5%			
Comments: yes, but I am not sure the all symbols are completed understood							
12- Role of manufacturers	Do manufacturers actively engage for electrical safety in the marketplace?	5	3	3%			
Comments: Existing marketing of the products, but the main enfoque is not safety.							
13- Market surveillance	Is there adequate action on market surveillance from the authorities?		3	8%			
Comments: Not effective and this action is obligation of another standard NR-10 (Safety in electric workplace)							

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South America

Classification	Criteria	9	BRAZIL
1	1- Standards & rules		4
2	2- Initial verification		4
3	3- Periodic inspection		2
4	4- Inspection report		3
5	5- Inspection for	existing instal	2
6	6- Inspector		2
7	7- Electrical contractor or insta		4
8	8- Role of utilities	5	3
9	9- Consumer edu	cation	4
10	10- Regulation	·	4
11	11- Labelling and	certification	4
12	12- Role of manufacturers		3
13	13- Market surve	illance	3

