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## **Consumer agency**

**Scope of electrical accidents  
Attitudinal research**

October 2005

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## Description of research

Customer	Consumer agency
Objective	To survey the frequency and scope of electrical accidents among professionals working with electricity
Survey period	October 6 <sup>th</sup> to 24 <sup>th</sup> 2005
Method	Telephone survey
Sample	655 professionals working with electricity listed at Neytendastofa
Project number	4014470

## Sample size and response rate

Original sample	655
Not supposed to be a part of the sample	58
Sick/Unable to participate	1
Deceased	0
Final sample	<b>596</b>
Refused to answer	125
Could not be reached	67
Total respondents	404
Response rate	<b>67,8%</b>

## Background variables

Age	Four agegroups
Residence	Three categories
Job	Three categories
How long have you worked with electricity?	Five categories
Do you voltage test?	Four categories

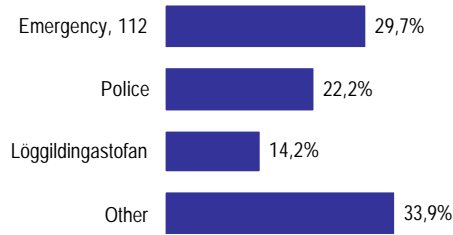
Reykjavík, October 31<sup>st</sup> 2005

With thanks for an enjoyable cooperation

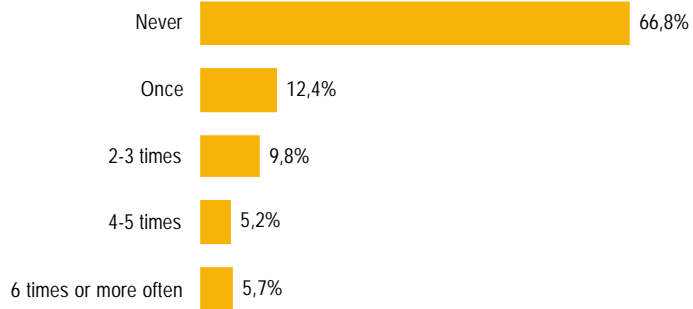
Guðni Rafn Gunnarsson  
Sigríður Herdís Bjarkadóttir  
Matthías Þorvaldsson

# Main results

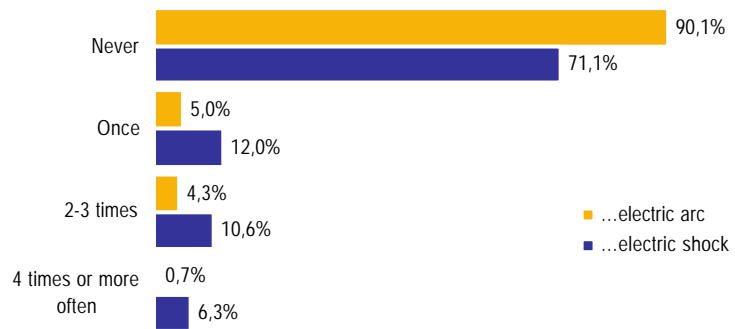
**Where do you report electrical accidents or mishaps if they occur?**



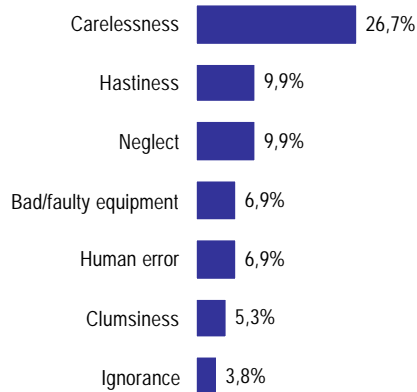
**Those who have had an accident: How often have you had an accident or a mishap in connection with electricity?**



**Those who have had an accident: How often have you had an accident or a mishap because of an ... in the last 12 months?**



**Those who have had an accident: What do you think caused the accident?**



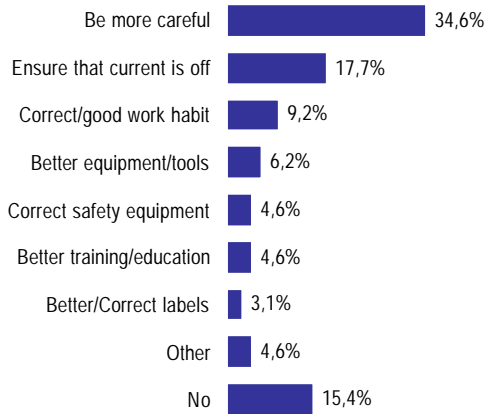
**Those who have had an accident: Did you seek a doctor or go to a hospital?**



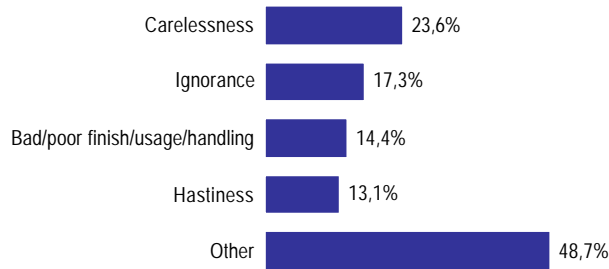
Those who have had an accident:  
**Do you feel any discomfort or pain today that you attribute to the accident?**



Those who have had an accident:  
**Is there something that could have prevented the accident?**



**What do you think is the biggest risk factor in connection with electricity?**



**Do you voltage test often, sometimes, seldom or never after you have turned the current off?**





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# Electrical accidents or mishaps reported

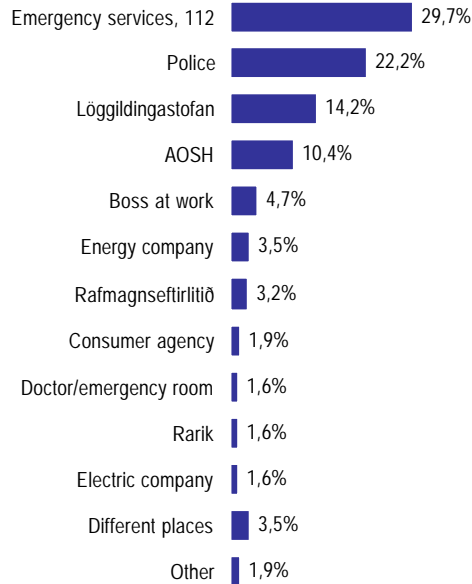
Q. 1. Where do you report electrical accidents or mishaps if they occur?

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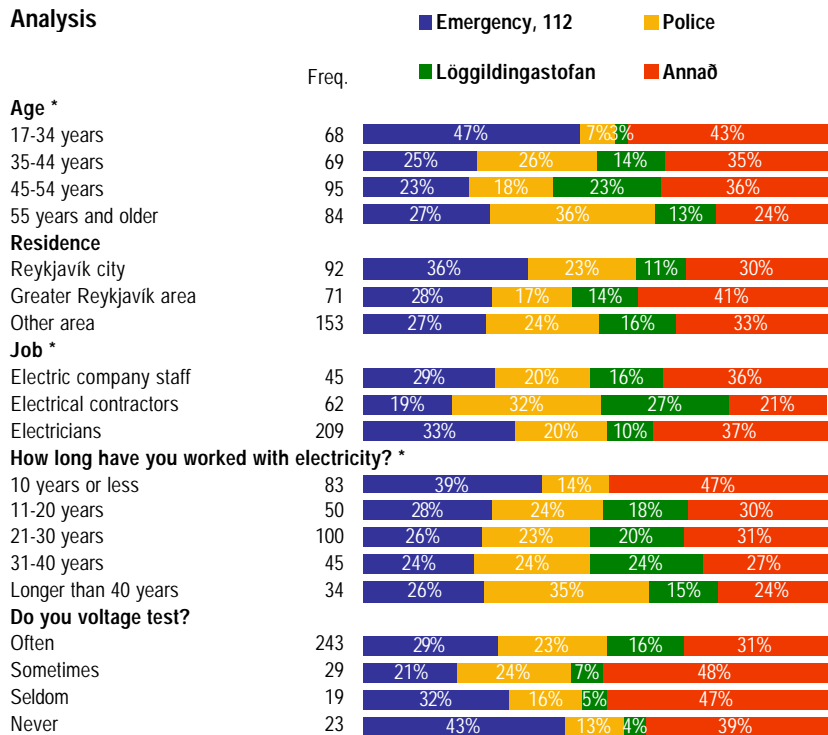


Answers	Count	Percent %	Conf. Int. +/-
Emergency services, 112	94	29,7	5,0
Police	70	22,2	4,6
Löggildingastofan	45	14,2	3,9
AOSH	33	10,4	3,4
Boss at work	15	4,7	2,3
Energy company	11	3,5	2,0
Rafmagnseftirlitið	10	3,2	1,9
Consumer agency	6	1,9	1,5
Doctor/emergency room	5	1,6	1,4
Rarik	5	1,6	1,4
Electric company	5	1,6	1,4
Different places	11	3,5	2,0
Other	6	1,9	1,5
Number of responses	316	100,0	
Did respond	316	78,2	
I don't report	31	7,7	
Has never come up	13	3,2	
Did not respond	44	10,9	
Total respondents	404	100,0	

## Those who say that they report



## Analysis



\* Statistically significant difference between groups

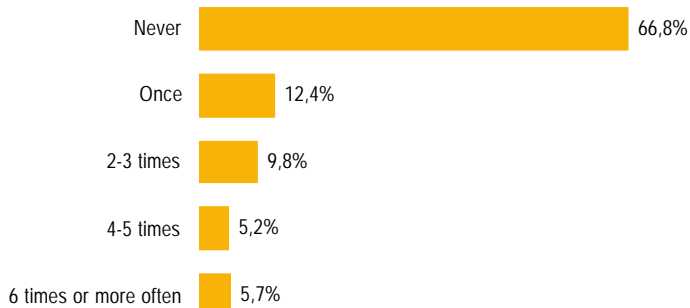
# Frequency of electricity related accidents

Q. 2. How often have you had an accident or a mishap in connection with electricity?

October 2005



Answers	Count	Percent %	Conf. Int. +/-
Never	258	66,8	4,7
Once	48	12,4	3,3
2-3 times	38	9,8	3,0
4-5 times	20	5,2	2,2
6 times or more often	22	5,7	2,3
<b>Number of responses</b>	<b>386</b>	<b>100,0</b>	
Did respond	386	95,5	
Don't remember how often I've had an accident	15	3,7	
Did not respond	3	0,7	
<b>Total respondents</b>	<b>404</b>	<b>100,0</b>	
<b>Mean</b>	1,4	times	
Standard deviation	3,8	times	
Median	0,0		
Mode	0,0		



## Analysis

	Freq.	Mean	St. Dev.	Mean
<b>Age</b>				
17-34 years	86	2,3	5,6	2,3
35-44 years	93	1,5	4,0	1,5
45-54 years	109	1,2	3,3	1,2
55 years and older	98	0,8	1,6	0,8
<b>Residence</b>				
Reykjavik city	116	1,3	3,7	1,3
Greater Reykjavik area	92	1,6	4,5	1,6
Other area	178	1,3	3,5	1,3
<b>Job</b>				
Electric company staff	51	1,2	2,0	1,2
Electrical contractors	70	0,6	1,8	0,6
Electricians	265	1,6	4,4	1,6
<b>How long have you worked with electricity? *</b>				
10 years or less	103	2,0	5,6	2,0
11-20 years	71	2,2	4,9	2,2
21-30 years	112	0,9	1,7	0,9
31-40 years	54	0,6	1,4	0,6
Longer than 40 years	40	0,7	1,8	0,7
<b>Do you voltage test?</b>				
Often	284	1,3	3,7	1,3
Sometimes	41	2,1	5,1	2,1
Seldom	24	1,0	2,4	1,0
Never	35	1,5	3,8	1,5

\* Statistically significant difference between group means

# Frequency of accidents or mishaps because of an electric arc

Q. 3. How often have you had an accident or a mishap because of an electric arc in the last 12 months?

October 2005



Answers	Count	Percent %	Conf. Int. +/-
Never	127	90,1	4,9
Once	7	5,0	3,6
2-3 times	6	4,3	3,3
4 times or more often	1	0,7	1,4
Number of responses	141	100,0	
Did respond	141	98,6	
Did not respond	2	1,4	
Total asked	143	100,0	
Asked	143	35,4	
Not asked	261	64,6	
Total respondents	404	100,0	
<b>Mean</b>	0,2	times	
Standard deviation	1,0		
Median	0,0		
Mode	0,0		

## Those who have had an accident or mishap



Those who have had an accident or a mishap (q. 2) were asked this question.

## Analysis

	Freq.	Mean	St. Dev.	Mean
<b>Age</b>				
17-34 years	31	0,4	0,8	0,4
35-44 years	29	0,1	0,4	0,1
45-54 years	42	0,0	0,0	0,0
55 years and older	39	0,4	1,6	0,4
<b>Residence</b>				
Reykjavik city	38	0,4	1,7	0,4
Greater Reykjavik area	33	0,1	0,4	0,1
Other area	70	0,2	0,6	0,2
<b>Job</b>				
Electric company staff	22	0,0	0,0	0,0
Electrical contractors	21	0,6	2,2	0,6
Electricians	98	0,2	0,5	0,2
<b>How long have you worked with electricity?</b>				
10 years or less	32	0,4	0,8	0,4
11-20 years	30	0,1	0,4	0,1
21-30 years	45	0,0	0,1	0,0
31-40 years	17	0,1	0,3	0,1
Longer than 40 years	16	0,8	2,5	0,8
<b>Do you voltage test?</b>				
Often	103	0,2	1,1	0,2
Sometimes	19	0,1	0,5	0,1
Seldom	7	0,1	0,4	0,1
Never	11	0,4	0,9	0,4

No statistically significant difference between group means

# Frequency of accidents or mishaps because of an electric shock

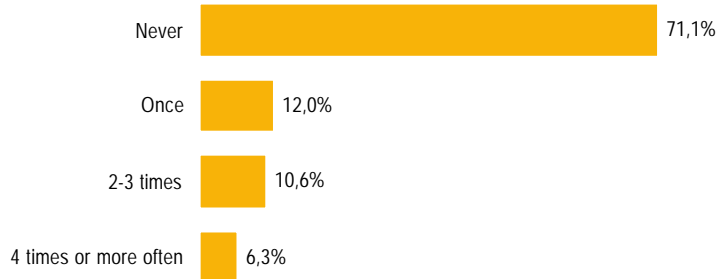
Q. 4. How often have you had an accident or a mishap because of an electric shock in the last 12 months?

October 2005



Answers	Count	Percent %	Conf. Int. +/-
Never	101	71,1	7,5
Once	17	12,0	5,3
2-3 times	15	10,6	5,1
4 times or more often	9	6,3	4,0
Number of responses	142	100,0	
Did respond	142	99,3	
Did not respond	1	0,7	
Total asked	143	100,0	
Asked	143	35,4	
Not asked	261	64,6	
Total respondents	404	100,0	
<b>Mean</b>	1,0		
Standard deviation	3,2	times	
Median	0,0		
Mode	0,0		

## Those who have had an accident or mishap



Those who have had an accident or a mishap (q. 2) were asked this question.

## Analysis

	Freq.	Mean	St. Dev.	Mean
<b>Age</b>				
17-34 years	32	1,6	3,6	1,6
35-44 years	29	1,0	2,2	1,0
45-54 years	42	1,1	4,7	1,1
55 years and older	39	0,3	0,8	0,3
<b>Residence</b>				
Reykjavik city	38	1,6	5,1	1,6
Greater Reykjavik area	33	1,2	3,7	1,2
Other area	71	0,5	0,9	0,5
<b>Job</b>				
Electric company staff	22	0,3	0,7	0,3
Electrical contractors	21	0,9	2,3	0,9
Electricians	99	1,1	3,7	1,1
<b>How long have you worked with electricity?</b>				
10 years or less	33	2,4	6,1	2,4
11-20 years	30	0,7	2,0	0,7
21-30 years	45	0,5	1,1	0,5
31-40 years	17	0,4	1,1	0,4
Longer than 40 years	16	0,4	1,0	0,4
<b>Do you voltage test?</b>				
Often	103	1,1	3,7	1,1
Sometimes	19	1,0	1,5	1,0
Seldom	7	0,1	0,4	0,1
Never	12	0,3	0,6	0,3

No statistically significant difference between group means

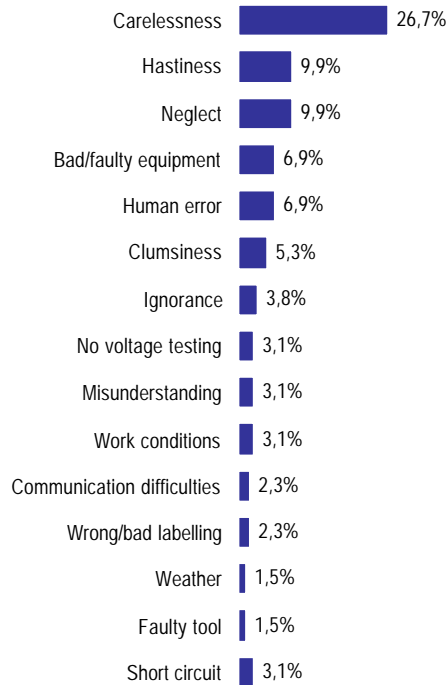
## What do you think caused the accident?

Q. 5. Now I want to ask you about the worst electrical accident or mishap that you have had. What do you think caused the accident?

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Answers	Count	Percent %	Conf. Int. +/-
Carelessness	35	26,7	7,6
Hastiness	13	9,9	5,1
Neglect	13	9,9	5,1
Bad/faulty equipment	9	6,9	4,3
Human error	9	6,9	4,3
Clumsiness	7	5,3	3,9
Ignorance	5	3,8	3,3
No voltage testing	4	3,1	2,9
Misunderstanding	4	3,1	2,9
Work conditions	4	3,1	2,9
Communication difficulties	3	2,3	2,6
Wrong/bad labelling	3	2,3	2,6
Weather	2	1,5	2,1
Faulty tool	2	1,5	2,1
Short circuit	4	3,1	2,9
Bad luck	3	2,3	2,6
Deduction	3	2,3	2,6
Other	14	10,7	5,3
Number of responses	117		
Did respond	131	91,6	
Did not respond	12	8,4	
Total asked	143	100,0	
Asked	143	35,4	
Not asked	261	64,6	
Total respondents	404	100,0	



Respondents were allowed to give more than one answer. Percentages are therefore based on the number of respondents rather than number of responses.

Those who have had an accident or a mishap (q. 2) were asked this question.

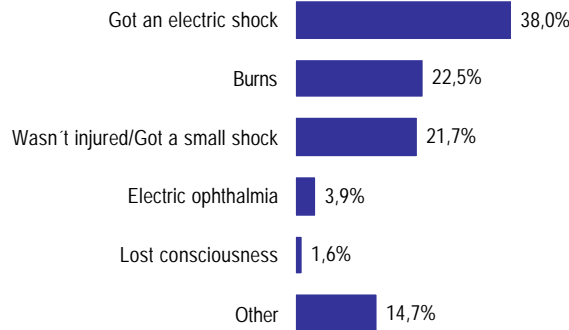
### Analysis

	Freq.	Carelessness	Other
<b>Age</b>			
17-34 years	28	14,3%	85,7%
35-44 years	27	33,3%	66,7%
45-54 years	39	28,2%	71,8%
55 years and older	37	29,7%	73,0%
<b>Residence</b>			
Reykjavík city	36	25,0%	77,8%
Greater Reykjavík area	30	40,0%	60,0%
Other area	65	21,5%	78,5%
<b>Job</b>			
Electric company staff	19	21,1%	78,9%
Electrical contractors	20	25,0%	75,0%
Electricians	92	28,3%	72,8%
<b>How long have you worked with electricity?</b>			
10 years or less	29	13,8%	86,2%
11-20 years	28	28,6%	71,4%
21-30 years	41	34,1%	65,9%
31-40 years	16	37,5%	68,8%
Longer than 40 years	16	18,8%	81,3%
<b>Do you voltage test?</b>			
Often	96	24,0%	77,1%
Sometimes	17	23,5%	76,5%
Seldom	7	42,9%	57,1%
Never	10	40,0%	60,0%

This is a multiple response question and statistical significance is therefore not calculated



Answers	Count	Percent %	Conf. Int. +/-
Got an electric shock	49	38,0	8,4
Burns	29	22,5	7,2
Wasn't injured/Got a small shock	28	21,7	7,1
Electric ophthalmia	5	3,9	3,3
Lost consciousness	2	1,6	2,1
Other	19	14,7	6,1
<b>Number of responses</b>			
Did respond	129	90,2	
Did not respond	14	9,8	
<b>Total asked</b>			
Asked	143	35,4	
Not asked	261	64,6	
<b>Total respondents</b>			
	404	100,0	



Respondents were allowed to give more than one answer. Percentages are therefore based on the number of respondents rather than number of responses.

Those who have had an accident or a mishap (q. 2) were asked this question.

### Analysis

	Freq.	Got an electric shock	Other
<b>Age</b>			
17-34 years	27	40,7%	59,3%
35-44 years	26	46,2%	53,8%
45-54 years	39	41,0%	59,0%
55 years and older	37	27,0%	75,7%
<b>Residence</b>			
Reykjavik city	35	37,1%	65,7%
Greater Reykjavik area	31	32,3%	67,7%
Other area	63	41,3%	58,7%
<b>Job</b>			
Electric company staff	20	30,0%	70,0%
Electrical contractors	21	33,3%	66,7%
Electricians	88	40,9%	60,2%
<b>How long have you worked with electricity?</b>			
10 years or less	28	42,9%	60,7%
11-20 years	26	50,0%	50,0%
21-30 years	42	40,5%	59,5%
31-40 years	16	25,0%	75,0%
Longer than 40 years	16	18,8%	81,3%
<b>Do you voltage test?</b>			
Often	95	30,5%	70,5%
Sometimes	17	58,8%	41,2%
Seldom	7	71,4%	28,6%
Never	9	55,6%	44,4%

This is a multiple response question and statistical significance is therefore not calculated

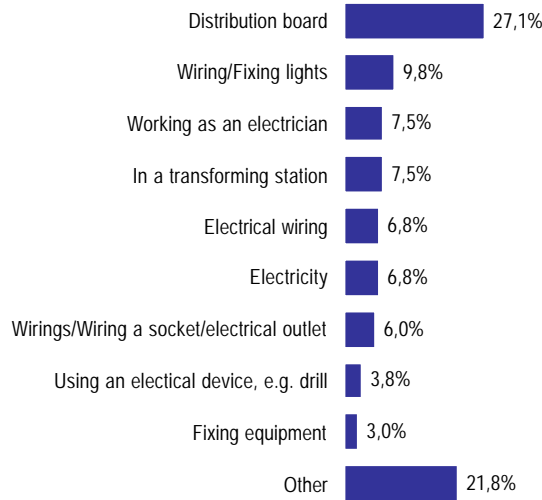
# What were you working on?

Q. 7. What were you working on when the accident occurred?

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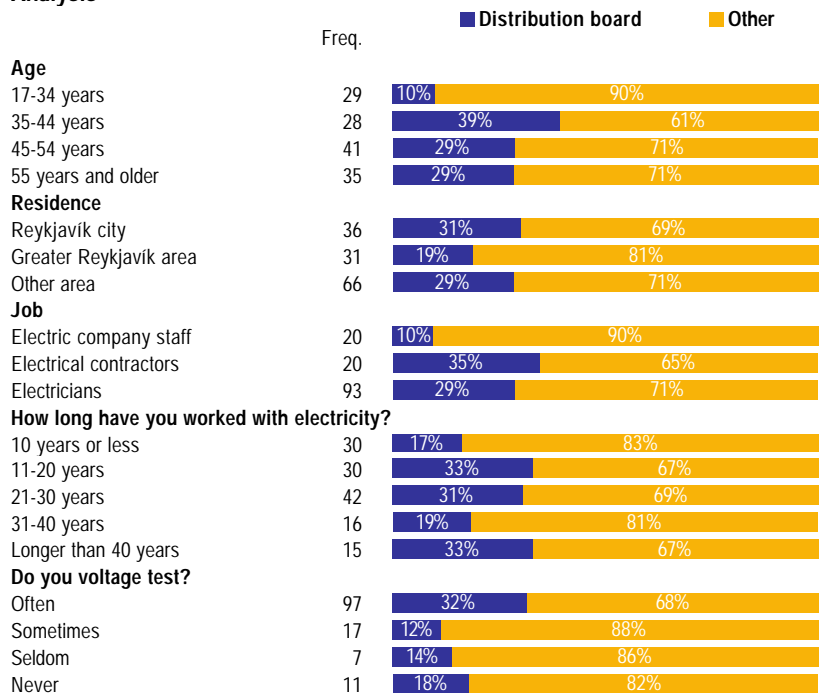


Answers	Count	Percent %	Conf. Int. +/-
Distribution board	36	27,1	7,6
Wiring/Fixing lights	13	9,8	5,0
Working as an electrician	10	7,5	4,5
In a transforming station	10	7,5	4,5
Electrical wiring	9	6,8	4,3
Electricity	9	6,8	4,3
Wirings/Wiring a socket/ electrical outlet	8	6,0	4,0
Using an electrical device, e.g. drill	5	3,8	3,2
Fixing equipment	4	3,0	2,9
Other	29	21,8	7,0
Number of responses	133	100,0	
Did respond	133	93,0	
Did not respond	10	7,0	
Total asked	143	100,0	
Asked	143	35,4	
Not asked	261	64,6	
Total respondents	404	100,0	



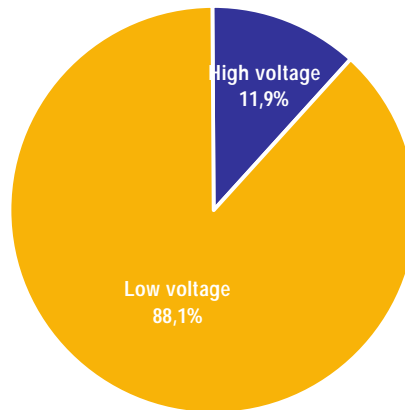
Those who have had an accident or a mishap (q. 2) were asked this question.

## Analysis



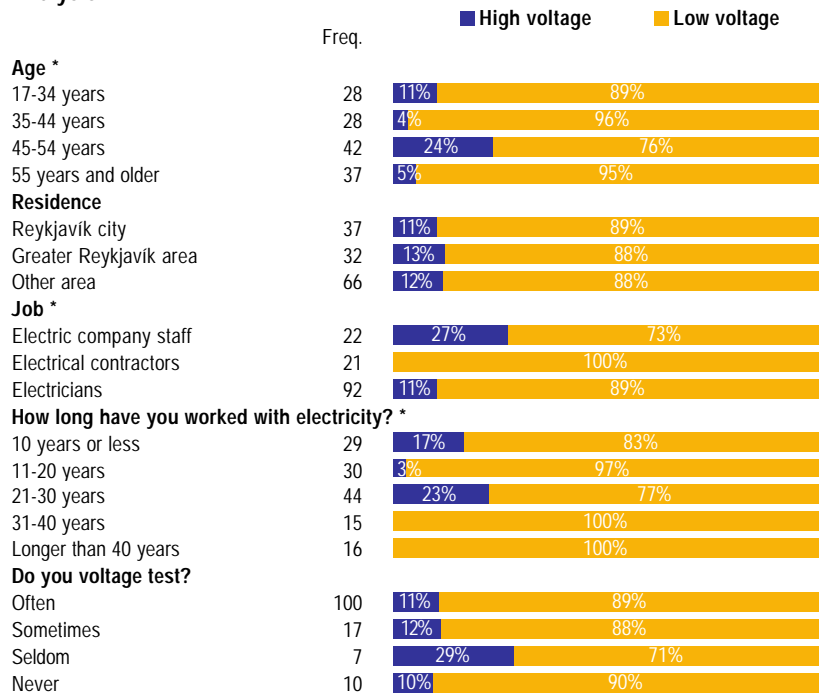
No statistically significant difference between groups

Answers	Count	Percent %	Conf. Int. +/-
High voltage	16	11,9	5,5
Low voltage	119	88,1	5,5
Number of responses	135	100,0	
Did respond	135	94,4	
Did not respond	8	5,6	
Total asked	143	100,0	
Asked	143	35,4	
Not asked	261	64,6	
Total respondents	404	100,0	



Those who have had an accident or a mishap (q. 2) were asked this question.

## Analysis



\* Statistically significant difference between groups

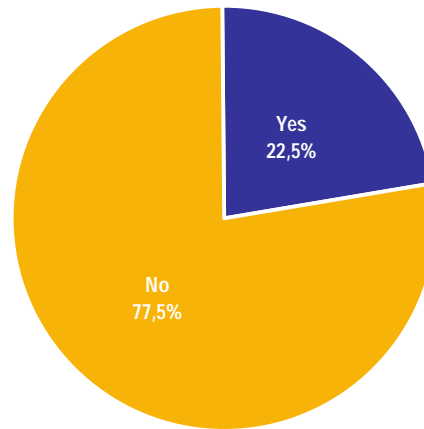
# Did you seek a doctor or go to a hospital?

Q. 9. Did you seek a doctor or go to a hospital?

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Answers	Count	Percent %	Conf. Int. +/-
Yes	31	22,5	7,0
No	107	77,5	7,0
Number of responses	138	100,0	
Did respond	138	96,5	
Did not respond	5	3,5	
Total asked	143	100,0	
Asked	143	35,4	
Not asked	261	64,6	
Total respondents	404	100,0	



Those who have had an accident or a mishap (q. 2) were asked this question.

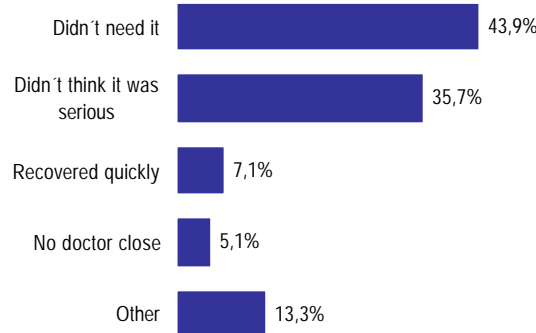
## Analysis

	Freq.	Yes	No
<b>Age</b>			
17-34 years	29	10%	90%
35-44 years	28	18%	82%
45-54 years	42	26%	74%
55 years and older	39	31%	69%
<b>Residence</b>			
Reykjavik city	38	16%	84%
Greater Reykjavik area	33	15%	85%
Other area	67	30%	70%
<b>Job</b>			
Electric company staff	22	36%	64%
Electrical contractors	21	29%	71%
Electricians	95	18%	82%
<b>How long have you worked with electricity? *</b>			
10 years or less	30	7%	93%
11-20 years	30	13%	87%
21-30 years	44	32%	68%
31-40 years	17	24%	76%
Longer than 40 years	16	38%	63%
<b>Do you voltage test?</b>			
Often	102	26%	74%
Sometimes	17	18%	82%
Seldom	7		100%
Never	11	9%	91%

\* Statistically significant difference between groups



Answers	Count	Percent %	Conf. Int. +/-
Didn't need it	43	43,9	9,8
Didn't think it was serious	35	35,7	9,5
Recovered quickly	7	7,1	5,1
No doctor close	5	5,1	4,4
Other	13	13,3	6,7
<b>Number of responses</b>			
Did respond	98	91,6	
Did not respond	9	8,4	
<b>Total asked</b>			
Asked	107	26,5	
Not asked	297	73,5	
<b>Total respondents</b>			
	404	100,0	



Respondents were allowed to give more than one answer. Percentages are therefore based on the number of respondents rather than number of responses.

Those who did not seek a doctor or go to a hospital (sp. 9) were asked this question.

**Analysis**

	Freq.	Didn't need it	Other
<b>Age</b>			
17-34 years	23	47,8%	56,5%
35-44 years	22	59,1%	45,5%
45-54 years	29	34,5%	65,5%
55 years and older	24	37,5%	66,7%
<b>Residence</b>			
Reykjavik city	29	48,3%	55,2%
Greater Reykjavik area	26	38,5%	65,4%
Other area	43	44,2%	58,1%
<b>Job</b>			
Electric company staff	14	42,9%	57,1%
Electrical contractors	13	46,2%	53,8%
Electricians	71	43,7%	60,6%
<b>How long have you worked with electricity?</b>			
10 years or less	25	40,0%	60,0%
11-20 years	24	54,2%	50,0%
21-30 years	30	43,3%	63,3%
31-40 years	11	36,4%	63,6%
Longer than 40 years	8	37,5%	62,5%
<b>Do you voltage test?</b>			
Often	68	39,7%	63,2%
Sometimes	14	57,1%	50,0%
Seldom	7	42,9%	57,1%
Never	8	50,0%	50,0%

This is a multiple response question and statistical significance is therefore not calculated

## What kind of treatment did you receive?

Q. 11. What kind of treatment did you receive?

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Answers	Count	Percent %	Conf. Int. +/-
Some treatment	28	93,3	8,9
None	2	6,7	8,9
Number of responses	30		
Did respond	30	96,8	
Did not respond	1	3,2	
Total asked	31	100,0	
Asked	31	7,7	
Not asked	373	92,3	
Total respondents	404	100,0	

Respondents were allowed to give more than one answer. Percentages are therefore based on the number of respondents rather than number of responses.

Those who said they had gone to a doctor or a hospital (q. 9) were asked this question.

### Those who had any treatment:

- Burns were taken care of.
- Check-up, wounds were dressed etc.
- Cooled and cleaned and the burns were cooled.
- Cooled and got healing ointments.
- Cooled.
- Eyes were anesthetized.
- Eyes were checked and received an ointment for my eyes.
- Eyes.
- For burns and burns in eyes (snow blindness).
- General burn treatment
- Got a check-up and an x-ray.
- Got a plaster cast.
- I got a traditional check-up.
- I was put into quarantine and was in hospital for 1 week and was also handled for burns.
- I was sent straight to Reykjavik, to a burn unit, was 6 weeks in hospital.
- Moved to a hospital.
- Ointment for eyes and eyes were closed.
- Resuscitated.
- Some ointments.
- Standard burn treatments.
- The correct treatment.
- Was cooled because of burns.
- Was dressed, cooled.
- Was put on a heart monitor, joints were checked.
- Went south for 6 surgeries in total.
- Went straight home after the doctor gave me a check-up. Treatment for burns, ointments etc.
- Went to the ER but was sent home the same day which wasn't good enough because I got all swollen and ended up in hospital for 10 days.
- Wound was dressed.

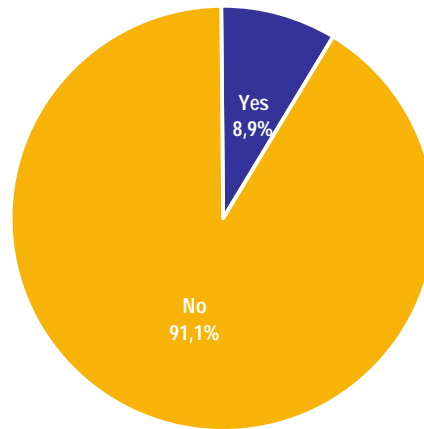
# Discomfort or pain caused by the accident

Q. 12. Do you feel any discomfort or pain today that you attribute to the accident?

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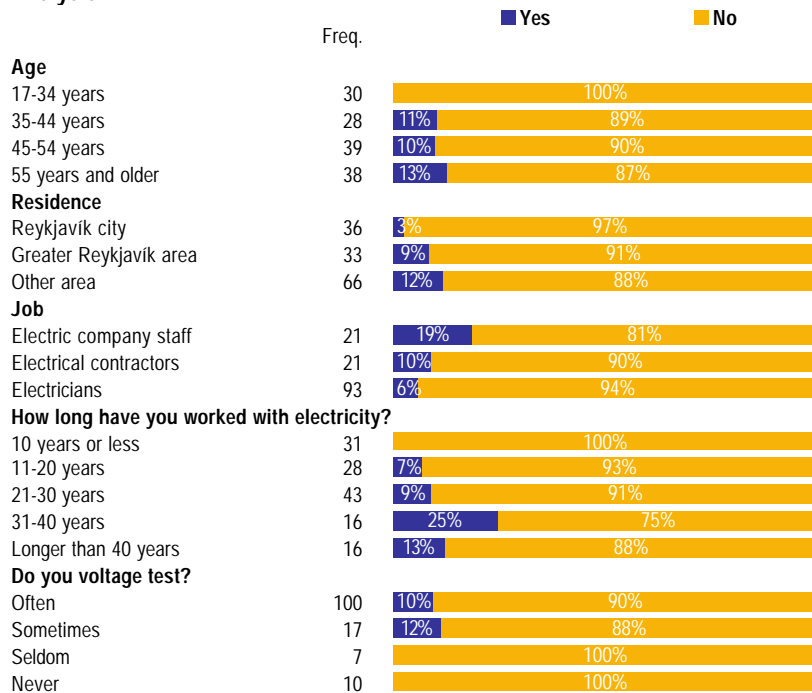


Answers	Count	Percent %	Conf. Int. +/-
Yes	12	8,9	4,8
No	123	91,1	4,8
Number of responses	135	100,0	
Did respond	135	94,4	
Did not respond	8	5,6	
Total asked	143	100,0	
Asked	143	35,4	
Not asked	261	64,6	
Total respondents	404	100,0	



Those who have had an accident or a mishap (q. 2) were asked this question.

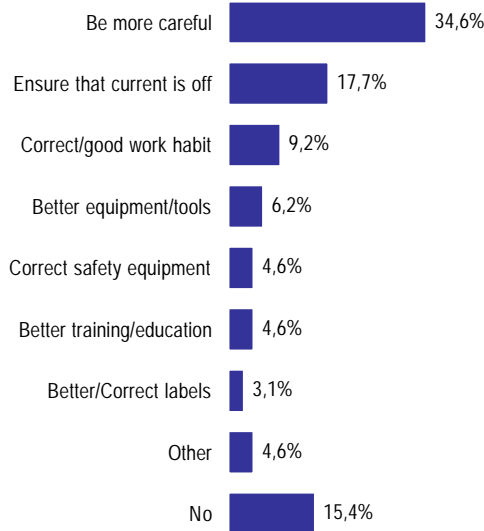
## Analysis



No statistically significant difference between groups

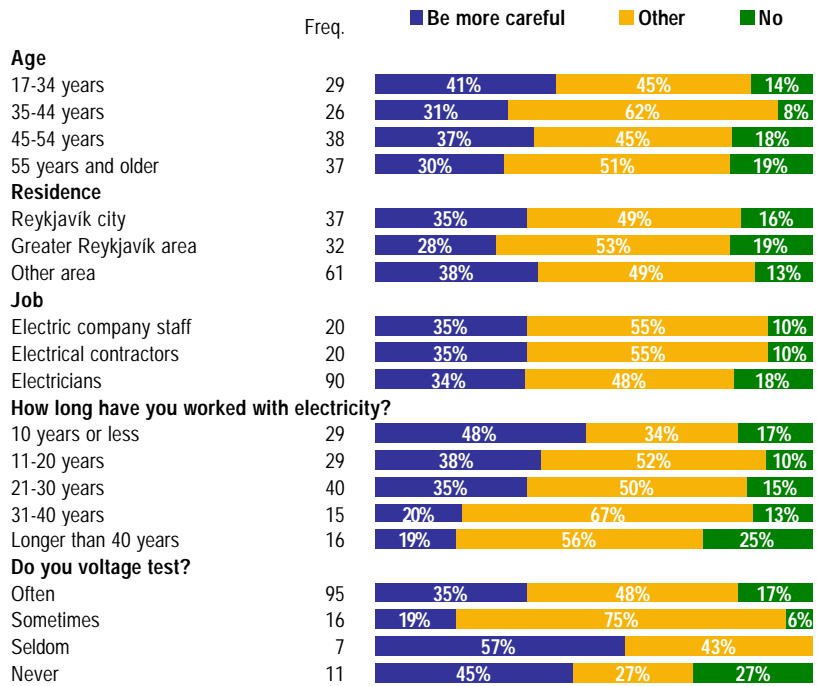


Answers	Count	Percent %	Conf. Int. +/-
Be more careful	45	34,6	8,2
Ensure that current is off	23	17,7	6,6
Correct/good work habit	12	9,2	5,0
Better equipment/tools	8	6,2	4,1
Correct safety equipment	6	4,6	3,6
Better training/education	6	4,6	3,6
Better/Correct labels	4	3,1	3,0
Other	6	4,6	3,6
No	20	15,4	6,2
Number of responses	130	100,0	
Did respond	130	90,9	
Did not respond	13	9,1	
Total asked	143	100,0	
Asked	143	35,4	
Not asked	261	64,6	
Total respondents	404	100,0	



Those who have had an accident or a mishap (q. 2) were asked this question.

Analysis



No statistically significant difference between groups

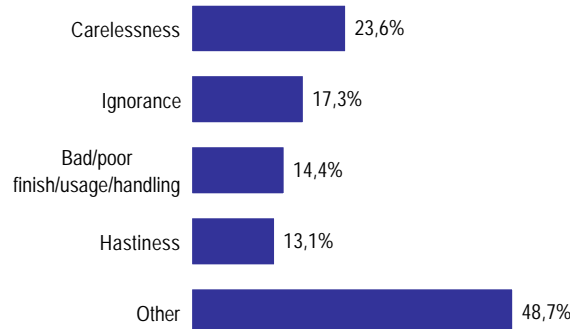
# Biggest risk factor in connection with electricity?

Q. 14. What do you think is the biggest risk factor in connection with electricity?

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Answers	Count	Percent %	Conf. Int. +/-
Carelessness	90	23,6	4,3
Ignorance	66	17,3	3,8
Bad/poor finish/usage/handling	55	14,4	3,5
Hastiness	50	13,1	3,4
Neglect	26	6,8	2,5
Tampering	21	5,5	2,3
Old/Bad wiring	19	5,0	2,2
Bad/Faulty electrical equipment and/or cable	15	3,9	1,9
Ignoring/Not using the safety rules	10	2,6	1,6
Contact voltage/Isolation not good enough	8	2,1	1,4
Not ground connected	8	2,1	1,4
Work with the current on	8	2,1	1,4
Incorrect/Bad equipment	7	1,8	1,3
Wrong/Bad work habit	7	1,8	1,3
Fire	7	1,8	1,3
Time constraint	6	1,6	1,2
Bad supervision	6	1,6	1,2
No voltage testing	5	1,3	1,1
Stress	5	1,3	1,1
Working conditions	5	1,3	1,1
Appliances	5	1,3	1,1
High voltage	5	1,3	1,1
Other	41	10,7	3,1
Number of responses	475		
Did respond	382	94,6	
Did not respond	22	5,4	
Total respondents	404	100,0	



Respondents were allowed to give more than one answer. Percentages are therefore based on the number of respondents rather than number of responses.

## Analysis

	Freq.	Careless-ness	Ignorance	Bad/poor finish/usage/handling	Hastiness	Other
<b>Age</b>						
17-34 years	80	20,0%	23,8%	12,5%	11,3%	46,3%
35-44 years	87	16,1%	17,2%	14,9%	17,2%	52,9%
45-54 years	113	30,1%	15,0%	12,4%	12,4%	45,1%
55 years and older	102	25,5%	14,7%	17,6%	11,8%	51,0%
<b>Residence</b>						
Reykjavik city	113	19,5%	16,8%	14,2%	18,6%	47,8%
Greater Reykjavik area	92	21,7%	21,7%	13,0%	12,0%	50,0%
Other area	177	27,1%	15,3%	15,3%	10,2%	48,6%
<b>Job</b>						
Electric company staff	48	43,8%	12,5%	12,5%	6,3%	39,6%
Electrical contractors	76	15,8%	28,9%	17,1%	13,2%	44,7%
Electricians	258	22,1%	14,7%	14,0%	14,3%	51,6%
<b>How long have you worked with electricity?</b>						
10 years or less	98	18,4%	24,5%	13,3%	11,2%	46,9%
11-20 years	66	15,2%	19,7%	12,1%	21,2%	47,0%
21-30 years	116	30,2%	12,1%	18,1%	12,1%	45,7%
31-40 years	57	24,6%	14,0%	10,5%	14,0%	56,1%
Longer than 40 years	40	27,5%	17,5%	17,5%	7,5%	52,5%
<b>Do you voltage test?</b>						
Often	286	25,2%	17,5%	15,0%	10,8%	48,3%
Sometimes	40	15,0%	12,5%	17,5%	30,0%	52,5%
Seldom	24	29,2%	16,7%	8,3%	12,5%	50,0%
Never	31	16,1%	19,4%	9,7%	12,9%	48,4%

This is a multiple response question and statistical significance is therefore not calculated

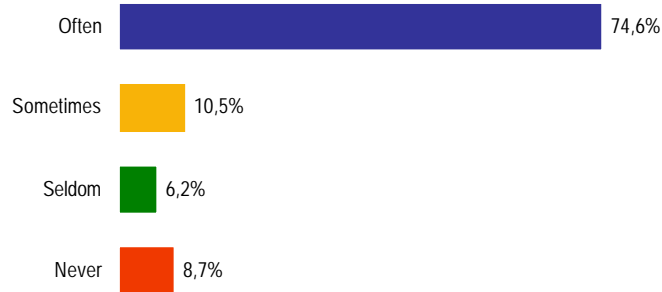
# Do you voltage test?

Q. 15. Do you voltage test often, sometimes, seldom or never after you have turned the current off?

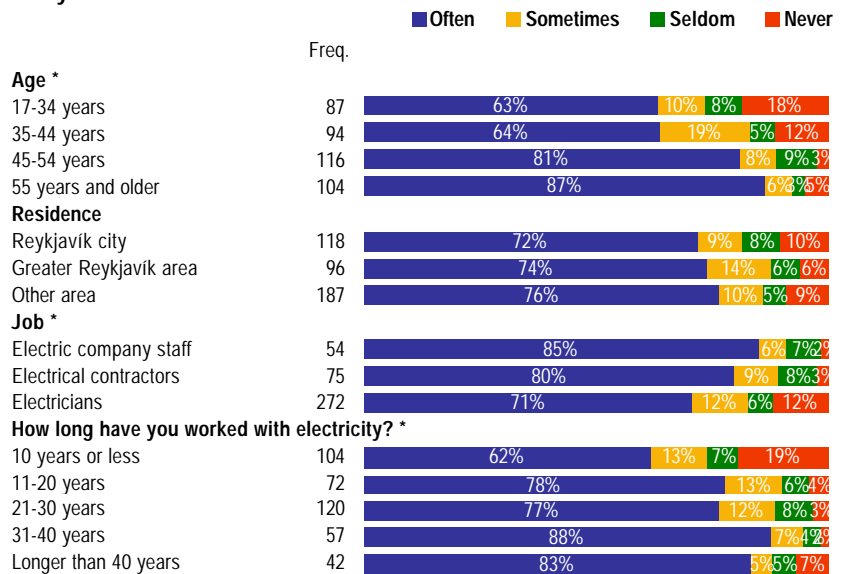
October 2005



Answers	Count	Percent %	Conf. Int. +/-
Often	299	74,6	4,3
Sometimes	42	10,5	3,0
Seldom	25	6,2	2,4
Never	35	8,7	2,8
Number of responses	401	100,0	
Did respond	401	99,3	
Did not respond	3	0,7	
Total respondents	404	100,0	



## Analysis



\* Statistically significant difference between groups

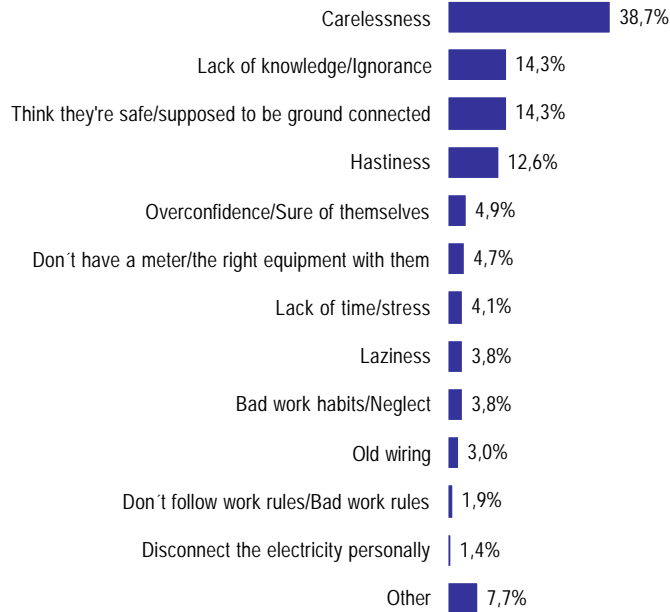
# Why isn't voltage testing or ground connection always performed?

Q. 16. What do you think is the main reason that voltage testing or ground connection isn't always performed?

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Answers	Count	Percent %	Conf. Int. +/-
Carelessness	141	38,7	5,0
Lack of knowledge/ Ignorance	52	14,3	3,6
Think they're safe/ supposed to be ground connected	52	14,3	3,6
Hastiness	46	12,6	3,4
Overconfidence/Sure of themselves	18	4,9	2,2
Don't have a meter/the right equipment with them	17	4,7	2,2
Lack of time/stress	15	4,1	2,0
Laziness	14	3,8	2,0
Bad work habits/Neglect	14	3,8	2,0
Old wiring	11	3,0	1,8
Don't follow work rules/Bad work rules	7	1,9	1,4
Disconnect the electricity personally	5	1,4	1,2
Other	28	7,7	2,7
<b>Number of responses</b>			
	420		
Did respond	364	90,1	
Did not respond	40	9,9	
<b>Total respondents</b>	<b>404</b>	<b>100,0</b>	



Respondents were allowed to give more than one answer. Percentages are therefore based on the number of respondents rather than number of responses.

## Analysis

	Freq.	Careless- ness	Lack of knowledge/ Ignorance	Think they're safe/ supposed to be ground connected	Hastiness	Other
<b>Age</b>						
17-34 years	71	22,5%	15,5%	9,9%	15,5%	47,9%
35-44 years	89	42,7%	15,7%	13,5%	10,1%	34,8%
45-54 years	108	38,9%	10,2%	18,5%	16,7%	26,9%
55 years and older	96	46,9%	16,7%	13,5%	8,3%	29,2%
<b>Residence</b>						
Reykjavik city	101	29,7%	18,8%	13,9%	15,8%	36,6%
Greater Reykjavik area	88	38,6%	19,3%	4,5%	15,9%	33,0%
Other area	175	44,0%	9,1%	19,4%	9,1%	32,0%
<b>Job</b>						
Electric company staff	51	43,1%	11,8%	29,4%	5,9%	25,5%
Electrical contractors	70	52,9%	11,4%	10,0%	12,9%	27,1%
Electricians	243	33,7%	15,6%	12,3%	14,0%	37,0%
<b>How long have you worked with electricity?</b>						
10 years or less	90	27,8%	16,7%	10,0%	16,7%	42,2%
11-20 years	66	42,4%	15,2%	10,6%	12,1%	34,8%
21-30 years	113	38,9%	12,4%	20,4%	11,5%	26,5%
31-40 years	54	46,3%	16,7%	13,0%	9,3%	29,6%
Longer than 40 years	38	44,7%	10,5%	15,8%	13,2%	34,2%
<b>Do you voltage test?</b>						
Often	283	41,7%	16,6%	10,2%	14,5%	32,9%
Sometimes	33	30,3%	6,1%	30,3%	6,1%	30,3%
Seldom	22	36,4%	4,5%	36,4%	9,1%	22,7%
Never	24	20,8%	8,3%	16,7%	4,2%	54,2%

This is a multiple response question and statistical significance is therefore not calculated

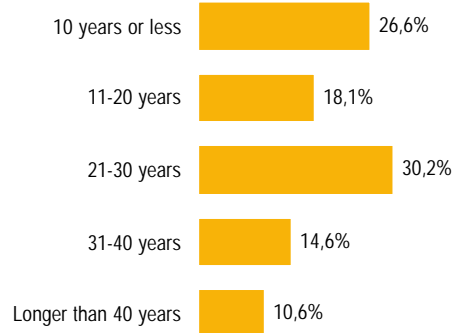
# How long have you worked with electricity?

Q. 17. How long have you worked with electricity?

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Answers	Count	Percent %	Conf. Int. +/-
10 years or less	106	26,6	4,3
11-20 years	72	18,1	3,8
21-30 years	120	30,2	4,5
31-40 years	58	14,6	3,5
Longer than 40 years	42	10,6	3,0
Number of responses	398	100,0	
Did respond	398	98,5	
Did not respond	6	1,5	
Total respondents	404	100,0	
<b>Mean</b>	22,8	years	
Standard deviation	14,1	years	
Median	25,0	years	
Mode	30,0	years	



## Analysis

	Freq.	Mean	St. Dev.	Mean
<b>Age *</b>				
17-34 years	86	5,5	4,7	5,5
35-44 years	94	16,6	8,1	16,6
45-54 years	115	27,0	6,8	27,0
55 years and older	103	38,3	9,4	38,3
<b>Residence</b>				
Reykjavik city	115	21,5	14,9	21,5
Greater Reykjavik area	95	23,0	14,2	23,0
Other area	188	23,6	13,4	23,6
<b>Job *</b>				
Electric company staff	54	28,7	10,9	28,7
Electrical contractors	76	32,3	11,2	32,3
Electricians	268	19,0	13,7	19,0
<b>Do you voltage test? *</b>				
Often	297	24,7	13,4	24,7
Sometimes	42	19,6	12,6	19,6
Seldom	25	21,6	13,4	21,6
Never	31	11,7	16,0	11,7

\* Statistically significant difference between group means



Answers	Count	Percent %	Conf. Int. +/-
Very good (5)	217	27,6	3,1
Rather good (4)	356	45,3	3,5
Neither nor (3)	133	16,9	2,6
Rather bad (2)	61	7,8	1,9
Very bad (1)	19	2,4	1,1
Good	72,9	3,1	
Neither nor	16,9	2,6	
Bad	10,2	2,1	
Number of responses	786	100,0	
Did respond	786	99,0	
Did not respond	8	1,0	
Total respondents	794	100,0	
Mean	3,9		
Standard deviation	1,0		

### Mean

The mean is computed by multiplying the value of each response option with the number of respondents selecting that option, summing up and dividing the total by the number of responses. [Very good (n. x 5) + rather good (n. x 4) + neither nor (n. x 3) + rather bad (n. x 2) + very bad (n. x 1)] / Total number of responses. The value of the mean is on the scale from 1 to 5.

### Standard deviation

is a common measure of how responses are scattered around the average. It indicates the similarity or dissimilarity of responses to the question. A high standard deviation means that the respondents' answers are dissimilar, while a low standard deviation means they are similar.

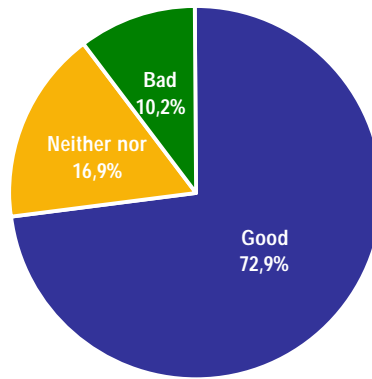
### Tables

The findings for each question are presented in table and chart form. Each question is stated at the top of the respective page, and each table is headlined with the feature that is being measured. In the tables one can see the participants' answers and the number of those who did not answer that particular question. The table on the left shows that little less than 28% think the brand is very good and more than 45% think it is rather good. Less than 8% think it is rather bad and about 2% think it is very bad.

Adding together the figures for "rather" and "very" those who think the brand is good are just under 73%.

### Confidence intervals

Confidence intervals are important for a clearer understanding of the survey findings. Confidence intervals are calculated for an equal interval above and below each percentage, unless the figure goes down to 0% or up to 100%. The normal reference is 95% confidence. When the interval has been obtained, it is possible to say with 95% confidence that a result produced by a survey would lie within it if the entire population was asked. This then enables comparison between different groups or responses. If the confidence limits do not overlap the difference between them is statistically significant. For example, it could be stated with 95% confidence that more individuals consider the factor important rather than unimportant.



### Pie charts

The main findings of a survey are summarized in a pie chart form to highlight the most noteworthy features. Furthermore, responses to each question are frequently broken down according to other parameters. These can include gender, age, residence, education and other questions in the same survey. The table below gives a breakdown by gender and age of participants in the survey. It reveals that there is no significant difference between men and women, but there is a statistically significant difference between age groups. In this case, older people think the object in question is better than younger people.

### Analysis

	Fjöldi	Very good	Rather good	Neither nor	Rather bad	Very bad	Mean
<b>Gender</b>							
Male	396	28,8%	43,7%	17,2%	7,1%	3,3%	3,9
Female	390	26,4%	46,9%	16,7%	8,5%	1,5%	3,9
<b>Age *</b>							
16-24 years	166	22,1%	44,8%	16,3%	12,8%	4,0%	3,7
25-34 years	159	22,6%	42,8%	16,4%	13,8%	4,4%	3,7
35-44 years	164	25,0%	42,1%	24,4%	7,3%	1,2%	3,8
45-54 years	136	30,1%	47,8%	15,4%	5,1%	1,5%	4,0
55-75 years	161	32,3%	48,4%	11,8%	4,3%	3,1%	4,0

\* Statistically significant difference between group means