Fatal and non-fatal accidents in electrical appliance in Japan in 1999-2022

electrical appliance industry Code No.011402

Type of accidents in electrical appliance in 1999-2022

Type of accidents	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	total
fall from height	27	28	23	24	19	30	21	20	18	21	14	20	21	10	11	13	11	15	16	21	9	14	8	13	427
falling to same level	34	24	43	48	39	39	34	40	34	40	31	26	42	33	29	36	27	35	40	49	37	19	40	33	852
crash	7	10	15	11	11	8	15	7	5	13	8	6	3	9	2	4	4	7	11	9	9	4	8	9	195
struck by flying or falling object	17	12	15	12	6	9	14	14	10	12	9	9	9	10	4	5	7	12	4	5	6	4	7	2	214
collapse	4	4	10	6	5	6	5	6	9	2	3	1	2	1	2	2	4	4		4	2	2	2	5	91
crashed by	7	6	10	9	8	7	6	10	4	6	4	4	4	1	3	5	6	5	8	4	7	5	3	7	139
caught in/between	82	63	75	80	62	67	67	49	52	60	30	29	38	31	40	22	30	24	33	25	28	19	12	20	1,038
cut	17	14	16	17	17	14	11	18	12	12	8	9	12	6	6	10	6	3	7	7	5	7	1	7	242
injury to the sole of the foot	1	1																							2
drown						1																			1
contact to high/low-	2	2	6	2	4	1	1	3	1	3	3	2	1	2	3	3	1	4	1		3	1	1	5	55

temperature																									
contact to harmful substance		2	2		2	1	2	6	1	2	4	1		1		1			1		2	2	2	2	34
electric shock		1				1	1		1	2								2			1		1	1	11
explosion			1															1							2
burst		2				1							1												4
fire	1	1						1		2												1			6
traffic accident (public road)	7	3	6	3	8	3	7	7	6	9	7	33	4	3	2	1	3	3		1	2	1		1	120
traffic accident (others)					1			2		1															4
reaction to motion/improper motion	25	22	16	16	13	23	20	21	27	29	10	19	26	16	20	15	20	30	17	20	22	18	20	21	486
others	2	1	1	3	2	1	4		2				3	3	1		1	2		3	1	1	24	2	57
unclassifiable			3	1							1								1	1	2			1	10
total	233	196	242	232	197	212	208	204	182	214	132	159	166	126	123	117	120	147	139	149	136	98	129	129	3,990

Causal agents (large) of fatal and non-fatal accidents in electrical appliance in 1999-2022

Causal (L) agents	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	total
machine	79	61	69	75	61	63	57	57	53	50	35	29	36	30	32	23	29	21	30	23	32	26	11	23	1,005

crane, conveying machine	21	17	30	20	20	24	26	25	17	31	17	40	19	11	12	11	12	9	11	14	15	4	9	10	425
other equipment	34	39	42	43	33	33	32	28	28	43	14	23	34	24	21	21	17	30	26	29	17	22	25	20	678
temporary buildings, establishments	45	23	49	48	40	49	39	37	30	35	38	27	30	31	20	34	28	38	36	37	33	20	31	38	836
substance, material	19	19	23	21	19	18	16	18	22	20	15	14	12	10	10	12	9	15	10	9	7	7	9	11	345
load	18	14	14	15	14	13	14	13	14	19	5	11	17	10	13	6	9	12	10	14	7	4	6	11	283
environment	3	4	4	2		4	6	9	2	3		3	5	1	2	2	1	6	3	4	3	3	4	2	76
others	14	19	11	8	10	8	18	17	16	13	8	12	13	9	13	8	15	16	13	19	22	12	34	14	342
total	233	196	242	232	197	212	208	204	182	214	132	159	166	126	123	117	120	147	139	149	136	98	129	129	3,990

Causal agents (middle) of fatal and non-fatal accidents in electrical appliance in 1999-2022

Causal (M) agents	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	total
engine									1														1		2
power transmission mechanism	4		2	2	1	1	2	3		2	3			1	1							1	1	1	25
woodworking machine	4			1				1	1		1	1			1	2	1					1		1	15

construction machine											1								1			1			3
metal manufacturing machine	35	31	34	38	29	31	29	23	25	24	9	11	22	21	13	10	16	10	13	9	20	8	3	9	473
general machine	36	30	33	34	31	31	26	30	26	24	21	17	14	8	17	11	12	11	16	14	12	15	6	12	487
mobile silviculture machine																									
crane	4	2	6	2		3	3	4	3	2	3	2	1	1	1	1	2	3		2	1	1	1		48
conveying machine	11	13	14	14	9	18	14	10	10	16	8	32	13	6	9	10	7	3	9	11	10	2	7	9	265
vehicle	6	2	10	4	11	3	9	11	4	13	6	6	5	4	2		3	3	2	1	4	1	1	1	112
pressure vessel				1		1		1						1											4
chemical facilities																									
welding equipment			1	1	2			1		1				1	1	1	2	2	3					1	17
kiln, caldron		2								1					1							1	1	1	7
electric equipment		1	1	1	2	1		1	1	3	2	1	1					2		2	1	1			21
human power machine, tools	10	8	12	11	12	8	11	6	9	11	6	7	13	4	9	8	3	8	7	6	8	7	7	6	197
tools	18	22	19	24	14	15	18	11	14	20	5	13	17	12	5	7	8	14	9	16	7	9	13	9	319
other equipments,																									

facilities	6	6	9	5	3	8	3	8	4	7	1	2	3	6	5	5	4	4	7	5	1	4	4	3	113
temporary buildings, establishments	45	23	49	48	40	49	39	37	30	35	38	27	30	31	20	34	28	38	36	37	33	20	31	38	836
hazards, harmful substances	3	4	4	1	3	1	2	7		3	3	1		2	1	2		1	1	1	1	1	2	3	47
materials	16	15	19	20	16	17	14	11	22	17	12	13	12	8	9	10	9	14	9	8	6	6	7	8	298
load	18	14	14	15	14	13	14	13	14	19	5	11	17	10	13	6	9	12	10	14	7	4	6	11	283
natural environment	3	4	4	2		4	6	9	2	3		3	5	1	2	2	1	6	3	4	3	3	4	2	76
other causal agent	2	8	5	2	3	1	5	2	7	1	1	1	3	3	2	1	3	2	1	3	5	1	28	3	93
no causal agent	11	9	5	5	7	7	12	14	9	11	6	9	10	6	10	7	12	14	11	13	17	11	6	10	232
unclassifiable	1	2	1	1			1	1		1	1	2			1				1	3				1	17
total	233	196	242	232	197	212	208	204	182	214	132	159	166	126	123	117	120	147	139	149	136	98	129	129	3,990

Causal agents (small) of fatal and non-fatal accidents in electrical appliance in 1999-2022

Causal (S) agents	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	total
engine									1														1		2
power transmission mechanism			2		1		2	3		2	3			1	1							1	1	1	18

circular sawing machine								1	1							1						1		1	5
band sawing machine																									
wood planer machine																									
hollow chisel mortiser, wood borer												1													1
chamfering machine, router, woodworking milling machine																									
chain saw																									
other woodworking machines											1				1	1	1								4
leveling, transporting or loading machine																									
excavating machine																						1			1
foundation work machine																									
hardening machine																									

demolition machine																									
vehicle for high lift work											1														1
other construction machines																			1						1
lathe			4		2		1	3	3	2	2	2	1	2	1	2	4	2	2	1		2		1	37
drill press, milling machine			1		3		3	3		3		1	3	1	1		1	2	4	3	4		1		34
grinding machine, buffing machine			1		2		1	2	4	4	1		5	2				1		1	1	1		1	27
power press			17		13		14	6	11	6	4	5	8	8	3	4	6	1	3	3	8	3	1	6	130
forging pressure hammer			1																						1
shearing machine			2		1					1											1				5
other metal manufacturing machines			8		8		10	9	7	8	2	3	5	8	8	4	5	4	4	1	6	2	1	1	104
centrifugal machine																1									1
mixer, grinder					1			1																	2
roll machine (except printingroll machine)					2			1	1	2		2	1	2	1			1	2		1	1			17

injection molding machine			2		2		1	1	1		2	1			2	1				1		1		1	16
food manufacturing machine																									
printing machine			2					1				1			1			1						1	7
industrial robot			2		1			1						2											6
other general power machines			27		25		25	25	24	22	19	13	13	4	13	9	12	9	14	13	11	13	6	10	307
felling machine																									
mobile logging machine																									
skyline yarding machine																									
other mobile silviculture machine																									
crane			2				3	4	3	1	3		1		1		1	2		2	1	1	1		26
mobile crane										1															1
derrick crane																									
elevator, lift			3									2				1		1							7
cargo lifting appliance																									
gondola																									

lumberyard equipment, logging cableway																									
simple skyline yarding equipment																									
other powered crane			1											1			1								3
truck			4		3		6	3	3	5	4	29	9	1	4	4	2	1	5	1	2	2	1	3	92
forklift			4		4		2	5	5	6	3	1	1	4	3	3	2	2	2	6	6		2	5	66
railway equipment																									
conveyor			5		2		4	2	1	4	1	2	2		2	2	2		2	3	1		3		38
loader																									
straddle carrier																									
rough terrain hauler																									
other powered conveying machines			1				2		1	1			1	1		1	1			1	1		1	1	13
cars, bus, motorcycle			9		11		9	10	3	13	6	6	4	4	1		2	3	1	1	4	1	1	1	90
railway vehicle								1																	1
other vehicles			1						1				1		1		1		1						6
boiler																									

pressure vessel																									
other pressure vessels								1						1											2
chemical facilities																									
gas welding equipment					1									1				2							4
arc welding equipment					1										1				1					1	4
other welding equipment			1					1		1						1	2		2						8
kiln, caldron										1					1										2
industrial dryer																						1	1	1	3
other kiln, caldron																									
transmission									1			1	1												3
electric power facilities					1			1		2	1														5
other electrical equipment			1		1					1	1							2		2	1	1			10
human power cranes																					1		3	1	5
human power hauling equipment			5		5		10	4	3	7	4	3	8	2	8	5	2	6	6	4	7	6	4	4	103

human power machine			1		1				1		1	1				1									6
hand tool			6		6		1	2	5	4	1	3	5	2	1	2	1	2	1	2		1		1	46
ladder			7		7		7	7	7	6	1	8	9	4	2	3	4	8	4	8	1	5	4	5	107
slinging tool			2				1							1		1				1	1				7
other tools			10		7		10	4	7	14	4	5	8	7	3	3	4	6	5	7	5	4	9	4	126
other equipment, facilities			9		3		3	8	4	7	1	2	3	6	5	5	4	4	7	5	1	4	4	3	88
scaffolding							2		1					1			1				1			1	7
timbering																									
stairs, landing stage			12		10		8	8	6	9	6	7	3	5	6	6	5	10	8	13	6	9	7	12	156
opening					1						2		1		1	1		1		1	1				9
roof, beam, haze, crossbeam, principal rafter					1			3			2	1	1					1					1		10
working platform, boot board			3		5		5	2	4	6	5	1	5	5	1	5	3	4	3	4	5			1	67
passage			20		14		14	19	13	12	17	14	16	14	9	18	13	15	19	16	15	10	19	19	306
building, establishment			6		6		5	4	3	6	3	2	3	3	1	2	4	3	2	1	5			1	60
other temporary buildings,			8		3		5	1	3	2	3	2	1	3	2	2	2	4	4	2		1	4	4	56

establishments																									
explosive substance																1									1
inflammable substance					1			1		1						1									4
inflammable gas											1														1
harmful substance			1		2		1	4		2		1		1					1	1				1	15
radiation																									
other hazards, harmful substances			3				1	2			2			1	1			1			1	1	2	2	17
metal material			12		10		8	9	20	11	8	9	9	6	7	8	7	11	6	7	3	4	4	8	167
lumber, bamboo			2		4		3				1		1		1			1	1			1			15
stone, sand, substance							1							1											2
other materials			5		2		2	2	2	6	3	4	2	1	1	2	2	2	2	1	3	1	3		46
load			11		12		9	12	11	15	5	11	13	8	10	5	9	10	9	13	6	4	6	9	188
machine/equipment as load			3		2		5	1	3	4			4	2	3	1		2	1	1	1			2	35
natural ground, rock																									
standing tree			1										1												2
water								1																	1
abnormal																									

environment								1																	1
high/cold temperature environment			2					1		2		1	1	1	1	1		1			1		1	1	14
other environments			1				6	6	2	1		2	3		1	1	1	5	3	4	2	3	3	1	45
other causal agent			5		3		5	2	7	1	1	1	3	3	2	1	3	2	1	3	5	1	28	3	80
no causal agent			5		7		12	14	9	11	6	9	10	6	10	7	12	14	11	13	17	11	6	10	200
unclassifiable			1				1	1		1	1	2			1				1	3				1	13
total	233	196	242	232	197	212	208	204	182	214	132	159	166	126	123	117	120	147	139	149	136	98	129	129	3,990

Workers age of fatal and non-fatal accidents in electrical appliance in 1999-2022

Age	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	total
19 years old or less	3	6	4	9	9	4	8	3	4	6	3	3	1	1	1	2	1	1	3	1	1	3	1	1	79
20-29	47	39	56	36	33	42	33	38	35	40	20	31	22	28	9	14	26	25	20	22	16	18	17	18	685
30-39	38	49	51	54	43	49	56	55	41	58	30	42	42	31	37	24	16	27	20	34	21	19	16	19	872
40-49	51	39	56	41	48	36	47	43	38	39	36	33	46	31	35	33	26	38	36	34	30	20	26	32	894
50-59	69	50	60	75	52	60	47	54	46	48	32	37	39	24	22	34	31	37	41	43	45	27	46	37	1,056
60 years old or more	25	13	15	17	12	21	17	11	18	23	11	13	16	11	19	10	20	19	19	15	23	11	23	22	404
total	233	196	242	232	197	212	208	204	182	214	132	159	166	126	123	117	120	147	139	149	136	98	129	129	3,990

Workers' number of workplace of fatal and non-fatal accidents in electrical appliance in 1999-2022

Workers scale	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	total
9 workers or less	40	21	28	25	22	32	30	20	18	11	7	7	17	8	8	6	13	7	9	6	5	3	7	4	354
10-29	45	38	33	47	35	34	33	36	28	34	25	25	16	21	17	11	13	28	16	22	23	13	11	13	617
30-49	44	23	31	22	35	21	31	26	29	29	13	15	19	14	13	22	17	17	18	12	11	13	8	8	491
50-99	34	36	39	42	35	33	22	41	32	38	23	14	25	20	27	18	14	24	25	19	15	19	21	28	644
100-299	40	48	55	55	36	51	53	50	40	63	22	65	43	31	40	26	36	39	47	38	29	20	30	42	999
300 workers or more	30	30	56	41	34	41	39	31	35	39	42	33	46	32	18	34	27	32	24	52	53	30	52	34	885
total	233	196	242	232	197	212	208	204	182	214	132	159	166	126	123	117	120	147	139	149	136	98	129	129	3,990

Month of fatal and non-fatal accidents in electrical appliance in 1999-2022

Month	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	total
January	22	14	23	18	15	23	26	24	18	15	21	7	14	12	10	10	13	17	15	10	11	11	12	15	376
February	17	16	22	14	24	20	18	19	16	24	9	9	14	10	10	8	16	14	8	13	13	15	9	10	348
March	25	17	36	24	25	18	19	11	14	18	5	6	17	9	11	11	19	13	13	6	11	8	20	14	370
April	16	15	14	24	12	23	12	17	16	17	12	11	10	10	4	16	7	11	9	12	16	11	4	12	311
May	19	17	21	14	18	15	12	19	15	18	8	7	9	8	7	11	10	11	12	15	12	1	11	15	305
June	27	21	13	18	14	17	28	21	12	17	4	15	14	11	14	9	10	13	10	22	13	3	16	5	347

July	20	21	28	16	15	20	18	18	17	22	17	10	14	11	9	9	9	12	11	13	13	13	7	12	355
August	13	15	11	17	14	13	15	13	22	22	10	16	9	12	13	6	9	14	12	11	8	8	7	10	300
September	9	15	18	19	18	25	19	19	15	13	18	11	14	7	4	4	4	13	12	20	12	8	13	12	322
October	20	14	22	22	22	12	9	12	11	20	7	17	13	15	20	11	12	9	18	7	6	9	10	10	328
November	20	12	14	26	8	16	11	12	11	11	10	42	19	11	11	11	6	11	8	11	6	5	9	8	309
December	25	19	20	20	12	10	21	19	15	17	11	8	19	10	10	11	5	9	11	9	15	6	11	6	319
total	233	196	242	232	197	212	208	204	182	214	132	159	166	126	123	117	120	147	139	149	136	98	129	129	3,990

Prefecture of fatal and non-fatal accidents in electrical appliance in 1999-2022

Prefecture	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	total
Hokkaido	1	1			1		2	3	1		1	2		1			1	1		1				2	18
Aomori	2	3	3		4		3	5	5	4		2	1		3	3		1	4	3		1	1	2	50
Iwate		1	2				2	2	1	3		1	1							2	1	1			17
Miyagi	5	3	1		1		2	1	1			3				1		5	3		2	2	4	1	35
Akita	2	4	2		2		2	4	1	1			2		1			1	2	2	1	2		3	32
Yamagata	8	6	4		4		5	2	6	6	3	1	6	2	2	5	5	5	4	2	5	3	2	11	97
Fukushima	4	6	3		6		8	6	9	9	6	5	6	6	7	2	3	11	4	7	8	2	6	6	130
Ibaraki	7	5	13		2		5	4	2	8	6	5	5	5	1		1	6	5	2	2	1	2	2	89
Tochigi	5	2	5		3		4	5	1	1	3		5	1	3	1	1	4	3		3	1	1	2	54
Gunma	12	6	8		8		8	3	6	5	3	4	4	2	3	7	6	9	6	8	2	1	8	9	128

Saitama	8	8	12		10		7	3	5	7	5	4	8	7	5	5	4	2	4	6	8	9	5	6	138
Chiba	6	3	6		4		1		2	4	1		1	4	2	1		1			2	1		1	40
Tokyo	12	8	10		5		6	11	3	3	5	3	6	1	4	1	3	3	2	1	3	2	1	2	95
Kanagawa	21	19	14		18		14	10	11	16	17	2	7	8	6	4	7	10	8	9	7	4	4	7	223
Niigata	14	10	12		3		8	4	7	8	10	6	9	7	7	8	3	5	7	3	5	4	4	7	151
Toyama	1		1					1		1			2			1		1	1						9
Ishikawa	2	1	2		1		2	1		1	2	2	4			1	2		2	4	2	4	1	3	37
Fukui		4	2		4		3	5	1	1			1	3	1	2			2	3	1		1	5	39
Yamanashi	1	3					1	1			1	1		1						1		1	2		13
Nagano	9	2	4		5		2	8	7	5	1	5	10	2	9	6	4	5	10	9	4	4	2	6	119
Gifu	2	3	2		2		3	3	3	3		2	3	6	1	1	2		1	2	1	1	1		42
Shizuoka	6	13	10		17		18	19	20	26	9	6	14	12	8	13	16	14	14	18	21	14	16	13	317
Aichi	6	8	5		5		12	9	3	3	4	4	4	7	7	11	6	2	6	6	7	9	5	9	138
Mie	7	6	9		5		13	12	14	13	3	38	11	8	8	4	9	5	7	8	6		19	1	206
Shiga	8	15	21		17		14	13	17	15	10	11	8	4	3	11	7	11	3	12	10	4	10	8	232
Kyoto	8	7	11		2			1	1	4	4	3	3	2	2	1	2	5	2	2	1	3	6		70
Osaka	31	15	26		31		17	26	26	22	12	26	21	11	13	13	17	5	10	10	11	6	6	1	356
Hyogo	12	7	17		11		11	7	4	13	6	5	5	10	10	4	7	9	9	5	6	6	3	3	170
Nara	2	2	1		4		1	4	1	4	2	1	1	1		1	2	1	1		1	1	2	1	34
Wakayama			1				2			1	1	2	1	1	2				1		2		7	1	22
Tottori	5	3	5		2		3	2	3	4	1	2	3	1	1		1	1	5	3	1	2	3		51

Shimane	2	2	3		4		1	4	3	2	1	3	2	1	1	1	1	2	2	2		2	2	4	45
Okayama	3	2	4		1		1	2	2	1	1		2		1	1	1	3	3	2	1		1	3	35
Hiroshima	1	5	6		3		7	5	5	2	5				1		1	1	3	6	3	1		3	58
Yamaguchi		1						1													1				3
Tokushima	3	4	1		1		1		1					1				2					1		15
Kagawa	1		1		2		2	1	1	2	1			2		1	1	1		2		1	1		20
Ehime	7	2	2		3		6	4	2	3	2		3	1		2	2	1	1	1				1	43
Kochi			2															1							3
Fukuoka	1	2	6		4		5	5	1	9	2	4	5	2	6	3	3	5		4	3	3		1	74
Saga	2	2	1				2	3	1	1	1	1			1	1		3		1	1		2	2	25
Nagasaki									2			1	1	1	1		1							2	9
Kumamoto	4	2	4		1		3	2	2	1	3	4	1	2	2		1	3	4	1	3	2			45
Oita	2				1		1	2	1					3	1	1		2			1			1	16
Miyazaki																				1					1
Kagoshima										2															2
Okinawa																									
total	233	196	242	232	197	212	208	204	182	214	132	159	166	126	123	117	120	147	139	149	136	98	129	129	3,990

Fatal and non-fatal accidents mean fatal and non-fatal injuries and occupational diseases with work absence of 4 days and more.

Data of 2022 year do not include Covid-19 cases. Data of 2020 & 2021 year include Covid-19 cases. Fatal and non-fatal data are same situation.

Data of 2011 year include fatal and non-fatal accidents caused by Great East Japan Earthquake in 2011.

Data sources: https://anzeninfo.mhlw.go.jp/user/anzen/tok/anst00.html (MHLW, Japan)

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Fatal accidents in electrical appliance in Japan in 1999-2022

electrical appliance industry Code No.011402

Type of fatal accidents in electrical appliance in 1999-2022

Type of accidents	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	total
fall from height																				1					1
falling to same level																					1				1
crash																									
struck by flying or falling object																									
collapse									1																1
crashed by																									
caught in/between	1	2																1							4
cut																									
injury to the sole of the foot																									

drown						1																			1
contact to high/low-temperature																									
contact to harmful substance		1																							1
electric shock																									
explosion																									
burst																									
fire																									
traffic accident (public road)												7			1										8
traffic accident (others)																									
reaction to motion/improper motion																									
others							1								1			1						1	4
unclassifiable																									
total	1	3				1	1		1			7			2			2		1	1			1	21

Causal agents (large) of fatal accidents in electrical appliance in 1999-2022

Causal (L) agents	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	total
machine		2																1							3
crane, conveying machine												7			1										8
other equipment	1																			1					2
temporary buildings, establishments																									
substance, material		1							1																2
load																									
environment						1																			1
others							1								1			1			1			1	5
total	1	3				1	1		1			7			2			2		1	1			1	21

Causal agents (middle) of fatal accidents in electrical appliance in 1999-2022

Causal (M) agents	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	total
engine																									
power transmission mechanism																									

woodworking machine																									
construction machine																									
metal manufacturing machine		1																							1
general machine		1																1							2
mobile silviculture machine																									
crane																									
conveying machine												7			1										8
vehicle																									
pressure vessel																									
chemical facilities																									
welding equipment																									
kiln, caldron																									
electric equipment																									
human power machine, tools																									
tools																				1					1
other equipments,																									

facilities	1																								1
temporary buildings, establishments																									
hazards, harmful substances		1																							1
materials									1																1
load																									
natural environment						1																			1
other causal agent																					1				1
no causal agent							1								1			1						1	4
unclassifiable																									
total	1	3				1	1		1			7			2			2		1	1			1	21

Causal agents (small) of fatal accidents in electrical appliance in 1999-2022

Causal (S) agents	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	total
engine																									
power transmission mechanism																									

circular sawing machine																									
band sawing machine																									
wood planer machine																									
hollow chisel mortiser, wood borer																									
chamfering machine, router, woodworking milling machine																									
chain saw																									
other woodworking machines																									
leveling, transporting or loading machine																									
excavating machine																									
foundation work machine																									
hardening machine																									

demolition machine																									
vehicle for high lift work																									
other construction machines																									
lathe																									
drill press, milling machine																									
grinding machine, buffing machine																									
power press		1																							1
forging pressure hammer																									
shearing machine																									
other metal manufacturing machines																									
centrifugal machine																									
mixer, grinder		1																							1
roll machine (except printingroll machine)																									

injection molding machine																									
food manufacturing machine																									
printing machine																									
industrial robot																									
other general power machines																		1							1
felling machine																									
mobile logging machine																									
skyline yarding machine																									
other mobile silviculture machine																									
crane																									
mobile crane																									
derrick crane																									
elevator, lift																									
cargo lifting appliance																									
gondola																									

lumberyard equipment, logging cableway																									
simple skyline yarding equipment																									
other powered crane																									
truck												7			1										8
forklift																									
railway equipment																									
conveyor																									
loader																									
straddle carrier																									
rough terrain hauler																									
other powered conveying machines																									
cars, bus, motorcycle																									
railway vehicle																									
other vehicles																									
boiler																									

pressure vessel																									
other pressure vessels																									
chemical facilities																									
gas welding equipment																									
arc welding equipment																									
other welding equipment																									
kiln, caldron																									
industrial dryer																									
other kiln, caldron																									
transmission																									
electric power facilities																									
other electrical equipment																									
human power cranes																									
human power hauling equipment																									

human power machine																									
hand tool																									
ladder																				1					1
slinging tool																									
other tools																									
other equipment, facilities	1																								1
scaffolding																									
timbering																									
stairs, landing stage																									
opening																									
roof, beam, haze, crossbeam, principal rafter																									
working platform, boot board																									
passage																									
building, establishment																									
other temporary buildings,																									

establishments																									
explosive substance																									
inflammable substance																									
inflammable gas																									
harmful substance																									
radiation																									
other hazards, harmful substances		1																							1
metal material									1																1
lumber, bamboo																									
stone, sand, substance																									
other materials																									
load																									
machine/equipment as load																									
natural ground, rock																									
standing tree																									
water						1																			1
abnormal																									

environment																									
high/cold temperature environment																									
other environments																									
other causal agent																					1				1
no causal agent							1								1			1						1	4
unclassifiable																									
total	1	3				1	1		1			7			2			2		1	1			1	21

Workers age of fatal accidents in electrical appliance in 1999-2022

Age	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	total
19 years old or less																									
20-29	1											3													4
30-39		2										4													6
40-49															1			1		1				1	4
50-59		1					1											1							3
60 years old or more						1			1						1						1				4
total	1	3				1	1		1			7			2			2		1	1			1	21

Workers' number of workplace of fatal accidents in electrical appliance in 1999-2022

Workers scale	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	total
9 workers or less															1										1
10-29																									
30-49																				1					1
50-99																		1							1
100-299		1							1			7			1									1	11
300 workers or more	1	2				1	1											1			1				7
total	1	3				1	1		1			7			2			2		1	1			1	21

Month of fatal accidents in electrical appliance in 1999-2022

Month	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	total
January									1															1	2
February							1											1							2
March																									
April																									
May																									
June	1														1										2

July		2				1																			3
August															1										1
September																		1			1				2
October																									
November												7								1					8
December		1																							1
total	1	3				1	1		1			7			2			2		1	1			1	21

Prefecture of fatal accidents in electrical appliance in 1999-2022

Prefecture	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	total
Hokkaido																									
Aomori																									
Iwate																									
Miyagi																									
Akita																									
Yamagata																								1	1
Fukushima																									
Ibaraki																									
Tochigi																									
Gunma																					1				1

Saitama																									
Chiba																									
Tokyo																									
Kanagawa		1					1																		2
Niigata						1									1										2
Toyama																		1							1
Ishikawa																									
Fukui																									
Yamanashi																									
Nagano																									
Gifu		1																							1
Shizuoka	1																								1
Aichi																									
Mie												7													7
Shiga																		1							1
Kyoto																									
Osaka		1																		1					2
Hyogo																									
Nara																									
Wakayama																									
Tottori																									

Shimane															1										1
Okayama																									
Hiroshima									1																1
Yamaguchi																									
Tokushima																									
Kagawa																									
Ehime																									
Kochi																									
Fukuoka																									
Saga																									
Nagasaki																									
Kumamoto																									
Oita																									
Miyazaki																									
Kagoshima																									
Okinawa																									
total	1	3				1	1		1			7			2			2		1	1			1	21

Data sources: https://anzeninfo.mhlw.go.jp/user/anzen/tok/anst00.html (MHLW, Japan)

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