

Fatal and non-fatal accidents in electrical appliance in Japan in 1999-2021

electrical appliance industry Code No.011402

Type of accidents in electrical appliance in 1999-2021

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	total	Type of accidents
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	414	fall from height
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	819	falling to same level
crash	7	10	15	11	11	8	15	7	5	13	8	6	3	9	2	4	4	7	11	9	9	4	8	186	crash
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	212	struck by flying or falling object
collapse	4	4	10	6	5	6	5	6	9	2	3	1	2	1	2	2	4	4		4	2	2	2	86	collapse
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	132	crashed by
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	1,018	caught in/between
cut	17	14	16	17	17	14	11	18	12	12	8	9	12	6	6	10	6	3	7	7	5	7	1	235	cut
injury to the sole of the foot	1	1																						2	injury to the sole of the foot
drown						1																		1	drown
contact to high/low-temperature	2	2	6	2	4	1	1	3	1	3	3	2	1	2	3	3	1	4	1		3	1	1	50	contact to high/low-temperature

engine								1													1	2	engine		
power transmission mechanism			2		1		2	3		2	3			1	1							1	1	17	power transmission mechanism
circular sawing machine								1	1						1							1		4	circular sawing machine
band sawing machine																									band sawing machine
wood planer machine																									wood planer machine
hollow chisel mortiser, wood borer												1												1	hollow chisel mortiser, wood borer
chamfering machine, router, woodworking milling machine																									chamfering machine, router, woodworking milling machine
chain saw																									chain saw
other woodworking machines											1				1	1	1							4	other woodworking machines
leveling, transporting or loading machine																									leveling, transporting or loading machine
excavating machine																						1		1	excavating machine
foundation work machine																									foundation work machine

machine			2		2		1	1	1		2	1						1		1		15	machine		
food manufacturing machine																								food manufacturing machine	
printing machine			2				1				1			1									6	printing machine	
industrial robot			2		1		1					2											6	industrial robot	
other general power machines			27		25		25	25	24	22	19	13	13	4	13	9	12	9	14	13	11	13	6	297	other general power machines
felling machine																								felling machine	
mobile logging machine																								mobile logging machine	
skyline yarding machine																								skyline yarding machine	
other mobile silviculture machine																								other mobile silviculture machine	
crane			2				3	4	3	1	3		1		1		1	2		2	1	1	1	26	crane
mobile crane										1														1	mobile crane
derrick crane																									derrick crane
elevator, lift			3									2				1		1						7	elevator, lift
cargo lifting appliance																									cargo lifting appliance
gondola																									gondola
lumberyard equipment, logging cableway																									lumberyard equipment, logging cableway

simple skyline yarding equipment																								simple skyline yarding equipment	
other powered crane			1									1			1								3	other powered crane	
truck			4		3		6	3	3	5	4	29	9	1	4	4	2	1	5	1	2	2	1	89	truck
forklift			4		4		2	5	5	6	3	1	1	4	3	3	2	2	2	6	6		2	61	forklift
railway equipment																									railway equipment
conveyor			5		2		4	2	1	4	1	2	2		2	2	2		2	3	1		3	38	conveyor
loader																									loader
straddle carrier																									straddle carrier
rough terrain hauler																									rough terrain hauler
other powered conveying machines			1				2		1	1			1	1		1	1			1	1		1	12	other powered conveying machines
cars, bus, motorcycle			9		11		9	10	3	13	6	6	4	4	1		2	3	1	1	4	1	1	89	cars, bus, motorcycle
railway vehicle							1																	1	railway vehicle
other vehicles			1						1				1		1		1		1					6	other vehicles
boiler																									boiler
pressure vessel																									pressure vessel
other pressure vessels								1						1										2	other pressure vessels
chemical facilities																									chemical facilities
gas welding					1									1					2					4	gas welding

facilities			9		3		3	8	4	7	1	2	3	6	5	5	4	4	7	5	1	4	4	85	facilities
scaffolding							2		1					1			1				1			6	scaffolding
timbering																									timbering
stairs, landing stage			12		10		8	8	6	9	6	7	3	5	6	6	5	10	8	13	6	9	7	144	stairs, landing stage
opening					1						2		1		1	1		1		1	1			9	opening
roof, beam, haze, crossbeam, principal rafter					1			3			2	1	1				1					1	10	roof, beam, haze, crossbeam, principal rafter	
working platform, boot board			3		5		5	2	4	6	5	1	5	5	1	5	3	4	3	4	5			66	working platform, boot board
passage			20		14		14	19	13	12	17	14	16	14	9	18	13	15	19	16	15	10	19	287	passage
building, establishment			6		6		5	4	3	6	3	2	3	3	1	2	4	3	2	1	5			59	building, establishment
other temporary buildings, establishments			8		3		5	1	3	2	3	2	1	3	2	2	2	4	4	2		1	4	52	other temporary buildings, establishments
explosive substance															1									1	explosive substance
inflammable substance					1			1		1						1								4	inflammable substance
inflammable gas											1													1	inflammable gas
harmful substance			1		2		1	4		2		1		1					1	1				14	harmful substance
radiation																									radiation
other hazards, harmful substances			3				1	2			2			1	1			1			1	1	2	15	other hazards, harmful substances

metal material			12		10		8	9	20	11	8	9	9	6	7	8	7	11	6	7	3	4	4	159	metal material
lumber, bamboo			2		4		3				1		1		1			1	1			1		15	lumber, bamboo
stone, sand, substance							1							1										2	stone, sand, substance
other materials			5		2		2	2	2	6	3	4	2	1	1	2	2	2	2	1	3	1	3	46	other materials
load			11		12		9	12	11	15	5	11	13	8	10	5	9	10	9	13	6	4	6	179	load
machine/equipment as load			3		2		5	1	3	4			4	2	3	1		2	1	1	1			33	machine/equipment as load
natural ground, rock																									natural ground, rock
standing tree			1										1											2	standing tree
water								1																1	water
abnormal environment									1															1	abnormal environment
high/cold temperature environment			2						1		2		1	1	1	1	1				1		1	13	high/cold temperature environment
other environments			1				6	6	2	1		2	3		1	1	1	5	3	4	2	3	3	44	other environments
other causal agent			5		3		5	2	7	1	1	1	3	3	2	1	3	2	1	3	5	1	28	77	other causal agent
no causal agent			5		7		12	14	9	11	6	9	10	6	10	7	12	14	11	13	17	11	6	190	no causal agent
unclassifiable			1				1	1		1	1	2			1				1	3				12	unclassifiable
total			242		197		208	204	182	214	132	159	166	126	123	117	120	147	139	149	136	98	129	2,988	total

Workers age of fatal and non-fatal accidents in electrical appliance in 1999-2021

Age	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	total	Age
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	78	19 years old or less
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	667	20-29
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	853	30-39
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	862	40-49
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	1,019	50-59
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	382	60 years old or more
total	233	196	242	232	197	212	208	204	182	214	132	159	166	126	123	117	120	147	139	149	136	98	129	3,861	total

Workers' number of workplace of fatal and non-fatal accidents in electrical appliance in 1999-2021

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	total	Workers scale
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	350	9 workers or less
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	604	10-29
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	483	30-49
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	616	50-99
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	957	100-299
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	851	300 workers or more
total	233	196	242	232	197	212	208	204	182	214	132	159	166	126	123	117	120	147	139	149	136	98	129	3,861	total

Month of fatal and non-fatal accidents in electrical appliance in 1999-2021

Month	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	total	Month
January	22	14	23	18	15	23	26	24	18	15	21	7	14	12	10	10	13	17	15	10	11	11	12	361	January
February	17	16	22	14	24	20	18	19	16	24	9	9	14	10	10	8	16	14	8	13	13	15	9	338	February
March	25	17	36	24	25	18	19	11	14	18	5	6	17	9	11	11	19	13	13	6	11	8	20	356	March
April	16	15	14	24	12	23	12	17	16	17	12	11	10	10	4	16	7	11	9	12	16	11	4	299	April
May	19	17	21	14	18	15	12	19	15	18	8	7	9	8	7	11	10	11	12	15	12	1	11	290	May
June	27	21	13	18	14	17	28	21	12	17	4	15	14	11	14	9	10	13	10	22	13	3	16	342	June
July	20	21	28	16	15	20	18	18	17	22	17	10	14	11	9	9	9	12	11	13	13	13	7	343	July
August	13	15	11	17	14	13	15	13	22	22	10	16	9	12	13	6	9	14	12	11	8	8	7	290	August
September	9	15	18	19	18	25	19	19	15	13	18	11	14	7	4	4	4	13	12	20	12	8	13	310	September
October	20	14	22	22	22	12	9	12	11	20	7	17	13	15	20	11	12	9	18	7	6	9	10	318	October
November	20	12	14	26	8	16	11	12	11	11	10	42	19	11	11	11	6	11	8	11	6	5	9	301	November
December	25	19	20	20	12	10	21	19	15	17	11	8	19	10	10	11	5	9	11	9	15	6	11	313	December
total	233	196	242	232	197	212	208	204	182	214	132	159	166	126	123	117	120	147	139	149	136	98	129	3,861	total

Prefecture of fatal and non-fatal accidents in electrical appliance in 1999-2021

Prefecture	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	total	Prefecture
Hokkaido	1	1			1		2	3	1		1	2		1			1	1		1				16	Hokkaido
Aomori	2	3	3		4		3	5	5	4		2	1		3	3		1	4	3		1	1	48	Aomori
Iwate		1	2				2	2	1	3		1	1							2	1	1		17	Iwate

Miyagi	5	3	1		1		2	1	1			3				1		5	3		2	2	4	34	Miyagi
Akita	2	4	2		2		2	4	1	1			2		1			1	2	2	1	2		29	Akita
Yamagata	8	6	4		4		5	2	6	6	3	1	6	2	2	5	5	5	4	2	5	3	2	86	Yamagata
Fukushima	4	6	3		6		8	6	9	9	6	5	6	6	7	2	3	11	4	7	8	2	6	124	Fukushima
Ibaraki	7	5	13		2		5	4	2	8	6	5	5	5	1		1	6	5	2	2	1	2	87	Ibaraki
Tochigi	5	2	5		3		4	5	1	1	3		5	1	3	1	1	4	3		3	1	1	52	Tochigi
Gunma	12	6	8		8		8	3	6	5	3	4	4	2	3	7	6	9	6	8	2	1	8	119	Gunma
Saitama	8	8	12		10		7	3	5	7	5	4	8	7	5	5	4	2	4	6	8	9	5	132	Saitama
Chiba	6	3	6		4		1		2	4	1		1	4	2	1		1			2	1		39	Chiba
Tokyo	12	8	10		5		6	11	3	3	5	3	6	1	4	1	3	3	2	1	3	2	1	93	Tokyo
Kanagawa	21	19	14		18		14	10	11	16	17	2	7	8	6	4	7	10	8	9	7	4	4	216	Kanagawa
Niigata	14	10	12		3		8	4	7	8	10	6	9	7	7	8	3	5	7	3	5	4	4	144	Niigata
Toyama	1		1					1		1			2			1		1	1					9	Toyama
Ishikawa	2	1	2		1		2	1		1	2	2	4			1	2		2	4	2	4	1	34	Ishikawa
Fukui		4	2		4		3	5	1	1			1	3	1	2			2	3	1		1	34	Fukui
Yamanashi	1	3					1	1			1	1		1						1		1	2	13	Yamanashi
Nagano	9	2	4		5		2	8	7	5	1	5	10	2	9	6	4	5	10	9	4	4	2	113	Nagano
Gifu	2	3	2		2		3	3	3	3		2	3	6	1	1	2		1	2	1	1	1	42	Gifu
Shizuoka	6	13	10		17		18	19	20	26	9	6	14	12	8	13	16	14	14	18	21	14	16	304	Shizuoka
Aichi	6	8	5		5		12	9	3	3	4	4	4	7	7	11	6	2	6	6	7	9	5	129	Aichi
Mie	7	6	9		5		13	12	14	13	3	38	11	8	8	4	9	5	7	8	6		19	205	Mie
Shiga	8	15	21		17		14	13	17	15	10	11	8	4	3	11	7	11	3	12	10	4	10	224	Shiga
Kyoto	8	7	11		2			1	1	4	4	3	3	2	2	1	2	5	2	2	1	3	6	70	Kyoto

Osaka	31	15	26		31		17	26	26	22	12	26	21	11	13	13	17	5	10	10	11	6	6	355	Osaka
Hyogo	12	7	17		11		11	7	4	13	6	5	5	10	10	4	7	9	9	5	6	6	3	167	Hyogo
Nara	2	2	1		4		1	4	1	4	2	1	1	1		1	2	1	1		1	1	2	33	Nara
Wakayama			1				2			1	1	2	1	1	2				1		2		7	21	Wakayama
Tottori	5	3	5		2		3	2	3	4	1	2	3	1	1		1	1	5	3	1	2	3	51	Tottori
Shimane	2	2	3		4		1	4	3	2	1	3	2	1	1	1	1	2	2	2		2	2	41	Shimane
Okayama	3	2	4		1		1	2	2	1	1		2		1	1	1	3	3	2	1		1	32	Okayama
Hiroshima	1	5	6		3		7	5	5	2	5				1		1	1	3	6	3	1		55	Hiroshima
Yamaguchi		1						1													1			3	Yamaguchi
Tokushima	3	4	1		1		1		1					1				2					1	15	Tokushima
Kagawa	1		1		2		2	1	1	2	1			2		1	1	1		2		1	1	20	Kagawa
Ehime	7	2	2		3		6	4	2	3	2		3	1		2	2	1	1	1				42	Ehime
Kochi			2															1						3	Kochi
Fukuoka	1	2	6		4		5	5	1	9	2	4	5	2	6	3	3	5		4	3	3		73	Fukuoka
Saga	2	2	1				2	3	1	1	1	1			1	1		3		1	1		2	23	Saga
Nagasaki									2			1	1	1	1		1							7	Nagasaki
Kumamoto	4	2	4		1		3	2	2	1	3	4	1	2	2		1	3	4	1	3	2		45	Kumamoto
Oita	2				1		1	2	1					3	1	1		2			1			15	Oita
Miyazaki																			1					1	Miyazaki
Kagoshima										2														2	Kagoshima
Okinawa																									Okinawa
total	233	196	242		197		208	204	182	214	132	159	166	126	123	117	120	147	139	149	136	98	129	3,417	total

injury to the sole of the foot																								injury to the sole of the foot
drown					1																		1	drown
contact to high/low-temperature																								contact to high/low-temperature
contact to harmful substance		1																					1	contact to harmful substance
electric shock																								electric shock
explosion																								explosion
burst																								burst
fire																								fire
traffic accident (public road)											7			1									8	traffic accident (public road)
traffic accident (others)																								traffic accident (others)
reaction to motion/improper motion																								reaction to motion/improper motion
others						1								1			1						3	others
unclassifiable																								unclassifiable
total	1	3			1	1		1			7			2			2		1	1			20	total

centrifugal machine																								centrifugal machine		
mixer, grinder		1																						1	mixer, grinder	
roll machine (except printingroll machine)																									roll machine (except printingroll machine)	
injection molding machine																									injection molding machine	
food manufacturing machine																									food manufacturing machine	
printing machine																									printing machine	
industrial robot																									industrial robot	
other general power machines																1									1	other general power machines
felling machine																									felling machine	
mobile logging machine																									mobile logging machine	
skyline yarding machine																									skyline yarding machine	
other mobile silviculture machine																									other mobile silviculture machine	
crane																									crane	
mobile crane																									mobile crane	
derrick crane																									derrick crane	
elevator, lift																									elevator, lift	

no causal agent						1								1			1							3	no causal agent
unclassifiable																									unclassifiable
total	1	3				1	1		1			7			2			2		1	1			20	total

Workers age of fatal accidents in electrical appliance in 1999-2021

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

Workers' number of workplace of fatal accidents in electrical appliance in 1999-2021

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	total	Workers scale
9 workers or less															1									1	9 workers or less
10-29																									10-29
30-49																				1				1	30-49
50-99																	1							1	50-99

100-299		1							1			7			1								10	100-299	
300 workers or more	1	2					1	1										1				1		7	300 workers or more
total	1	3					1	1				7			2			2			1	1		20	total

Month of fatal accidents in electrical appliance in 1999-2021

Month	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	total	Month	
January									1															1	January	
February							1											1						2	February	
March																										March
April																										April
May																										May
June	1														1									2	June	
July		2				1																		3	July	
August															1									1	August	
September																		1			1			2	September	
October																										October
November												7									1			8	November	
December		1																						1	December	
total	1	3				1	1		1			7			2			2		1	1			20	total	

Prefecture of fatal accidents in electrical appliance in 1999-2021

