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
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

contact to harmful																									contact to
		2	2		2	1	2	6	1	2	4	1		1		1			1		2	2	2	32	harmful
substance																									substance
electric shock		1				1	1		1	2								2			1		1	10	electric shock
explosion			1															1						2	explosion
burst		2				1							1											4	burst
fire	1	1						1		2												1		6	fire
traffic accident (public	7	3	6	3	8	3	7	7	6	9	7	33	4	3	2	1	3	3		1	2	1		119	traffic accident
road)				3	<b>o</b>	3		,			,	33	4	3			3	3						119	(public road)
traffic accident					1			2		1														4	traffic accident
(others)								_		<u> </u>														T	(others)
reaction to																									reaction to
motion/improper	25	22	16	16	13	23	20	21	27	29	10	19	26	16	20	15	20	30	17	20	22	18	20	465	motion/improper
motion																									motion
others	2	1	1	3	2	1	4		2				3	3	1		1	2		3	1	1	24	55	others
unclassifiable			3	1							1								1	1	2			9	unclassifiable
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

Causal agents (large) of fatal and non-fatal accidents in electrical appliance in 1999-2021

Causal (L) agents	1000	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	total	Causal (L)
Causar (L) agents		2000	2001	2002	2003	2004	2003	2000	2007	2000	2003	2010	2011	2012	2013	2014	2013	2010	2017	2010	2017	2020	2021	ll l	agents
machine	79	61	69	75	61	63	57	57	53	50	35	29	36	30	32	23	29	21	30	23	32	26	11	982	machine
crane, conveying																									crane,

machine	21	17	30	20	20	24	26	25	17	31	17	40	19	11	12	11	12	9	11	14	15	4	9	415	conveying
machine																									machine
athor aguinment	34	39	42	43	33	33	32	28	28	43	14	23	34	24	21	21	17	30	26	29	17	22	25	658	other
other equipment	34	39	42	43	33	33	52	20	20	43	14	23	34	24	21	21		30	20	29	17		23	036	equipment
tompovom buildings																									temporary
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	798	buildings,
establistifferits																									establishments
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	334	substance,
substance, material	19	19	23	21		10	10	10	22	20	13	14	12	10	10	12	9	13		9	,			334	material
load	18	14	14	15	14	13	14	13	14	19	5	11	17	10	13	6	9	12	10	14	7	4	6	272	load
environment	3	4	4	2		4	6	9	2	3		3	5	1	2	2	1	6	3	4	3	3	4	74	environment
others	14	19	11	8	10	8	18	17	16	13	8	12	13	9	13	8	15	16	13	19	22	12	34	328	others
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

Causal agents (middle) of fatal and non-fatal accidents in electrical appliance in 1999-2021

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	total	Causal (M) agents
engine									1														1	2	engine
power transmission mechanism	4		2	2	1	1	2	3		2	3			1	1							1	1	24	power transmission mechanism
woodworking machine	4			1				1	1		1	1			1	2	1					1		14	woodworking machine

construction machine											1								1			1		3	construction machine
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	464	metal manufacturing machine
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	475	general machine
mobile silviculture machine																									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	crane
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	256	conveying machine
vehicle	6	2	10	4	11	3	9	11	4	13	6	6	5	4	2		3	3	2	1	4	1	1	111	vehicle
pressure vessel				1		1		1						1										4	pressure vessel
chemical facilities																									chemical facilities
welding equipment			1	1	2			1		1				1	1	1	2	2	3					16	welding equipment
kiln, caldron		2								1					1							1	1	6	kiln, caldron
electric equipment		1	1	1	2	1		1	1	3	2	1	1					2		2	1	1		21	electric equipment
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	191	human power machine, tools
1																									

tools	18	22	19	24	14	15	18	11	14	20	5	13	17	12	5	7	8	14	9	16	7	9	13	310	tools
other equipments,	6	6	9	5	3	8	3	8	4	7	1	2	3	6	5	5	4	4	7	5	1	4	4	110	other equipments, facilities
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	798	temporary buildings, establishments
hazards, harmful substances	3	4	4	1	3	1	2	7		3	3	1		2	1	2		1	1	1	1	1	2	44	hazards, harmful substances
materials	16	15	19	20	16	17	14	11	22	17	12	13	12	8	9	10	9	14	9	8	6	6	7	290	materials
load	18	14	14	15	14	13	14	13	14	19	5	11	17	10	13	6	9	12	10	14	7	4	6	272	load
natural environment	3	4	4	2		4	6	9	2	3		3	5	1	2	2	1	6	3	4	3	3	4	74	natural environment
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	90	other causal
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	222	no causal agent
unclassifiable	1	2	1	1			1	1		1	1	2			1				1	3				16	unclassifiable
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

Causal agents (small) of fatal and non-fatal accidents in electrical appliance in 1999-2021

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	total	Causal (S) agents

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																			foundation work

	 	 	 																		IL
hardening machine																					hardening machine
demolition machine																					demolition machine
vehicle for high lift work							1													1	vehicle for high lift work
other construction machines															1					1	other construction machines
lathe	4	2	1	3	3	2	2	2	1	2	1	2	4	2	2	1		2		36	lathe
drill press, milling machine	1	3	3	3		3		1	3	1	1		1	2	4	3	4		1	34	drill press, milling machine
grinding machine, buffing machine	1	2	1	2	4	4	1		5	2				1		1	1	1		26	grinding machine, buffing machine
power press	17	13	14	6	11	6	4	5	8	8	3	4	6	1	3	3	8	3	1	124	power press
forging pressure hammer	1																			1	forging pressure hammer
shearing machine	2	1				1											1			5	shearing machine
other metal manufacturing machines	8	8	10	9	7	8	2	3	5	8	8	4	5	4	4	1	6	2	1	103	other metal manufacturing machines
centrifugal machine												1								1	centrifugal machine
mixer, grinder		1		1																2	mixer, grinder
roll machine (except printingroll machine)		2		1	1	2		2	1	2	1			1	2		1	1		17	roll machine (except printingroll machine)
injection molding																					injection molding

machine		2	2	1	1	1		2	1			2	1				1		1		15	machine
food manufacturing machine																						food manufacturing machine
printing machine		2			1				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																						other mobile
silviculture machine																						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																						lumberyard
equipment, logging																						equipment, logging
cableway																						cableway

	 $\sqsubseteq$	$\square$	<u> </u>	 	<u> </u>		<u> </u>															
simple skyline																						simple skyline
yarding equipment																						yarding equipment
other powered		1									1			1							3	other powered
crane		1												1							3	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		1		2		1	1			1	1		1	1				1		1	12	other powered
conveying machines		<u> </u>								1	<u> </u>										12	conveying machines
cars, bus,		9	11	9	10	3	13	6	6	4	4	1		2	3	1	1	4	1	1	89	cars, bus,
motorcycle																ľ		ľ		ľ		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					1						1										2	other pressure
vessels					<u> </u>																	vessels
chemical facilities																						chemical facilities
gas welding			1								1				2						4	gas welding

equipment																						equipment
arc welding equipment			1									1				1					3	arc welding equipment
other welding equipment		1			1		1						1	2		2					8	other welding equipment
kiln, caldron							1					1									2	kiln, caldron
industrial dryer																			1	1	2	industrial dryer
other kiln, caldron																						other kiln, caldron
transmission						1			1	1											3	transmission
electric power facilities			1		1		2	1													5	electric power
other electrical equipment		1	1				1	1							2		2	1	1		10	other electrical equipment
human power cranes																		1		3	4	human power cranes
human power		5	5	10	4	3	7	4	3	8	2	8	5	2	6	6	4	7	6	4	99	human power hauling equipment
human power		1	1			1		1	1				1								6	human power machine
hand tool		6	6	1	2	5	4	1	3	5	2	1	2	1	2	1	2		1		45	hand tool
ladder		7	7	7	7	7	6	1	8	9	4	2	3	4	8	4	8	1	5	4	102	ladder
slinging tool		2		1							1		1				1	1			7	slinging tool
other tools		10	7	10	4	7	14	4	5	8	7	3	3	4	6	5	7	5	4	9	122	other tools
other equipment,																						other equipment,

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,		3		1	2			2			1	1			1			1	1	2	15	other hazards, harmful substances

	 <u> </u>  -		<u>                                     </u>				<u> </u>		<u> </u>		1	<u> </u>				<u> </u>		<u> </u>		<u> </u>		<u> </u>
metal material	1	2	10	8	9	20	11	8	9	9	6	7	8	7	11	6	7	3	4	4	159	metal material
lumber, bamboo	2	2	4	3				1		1		1			1	1			1		15	lumber, bamboo
stone, sand, substance				1							1										2	stone, sand, substance
other materials	5	5	2	2	2	2	6	3	4	2	1	1	2	2	2	2	1	3	1	3	46	other materials
load	1	1	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	3	2	5	1	3	4			4	2	3	1		2	1	1	1			33	machine/equipment as load
natural ground,																						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	2			1		2		1	1	1	1	1		1			1		1		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	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	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	2	242	197	208	204	182	214	132	159	166	126	123	117	120	147	139	149	136	98	129	2,988	total

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	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					12					23											23			ll l	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	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											12							<i>J2</i>							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	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	Мау
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
lwate		1	2				2	2	1	3		1	1							2	1	1		17	lwate
			一	=	$\equiv$	$\equiv$		一		一		$\equiv$		$\equiv$	$\equiv$	一	$\equiv$	$\equiv$	$\equiv$	$\equiv$	$\equiv$				i

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

Fatal and non-fatal accidents mean fatal and non-fatal injuries and occupational diseases with work absence of 4 days and more. Data of 2011 year include fatal and non-fatal accidents caused by Great East Japan Earthquake in 2011.

Data sources: <a href="https://anzeninfo.mhlw.go.jp/user/anzen/tok/anst00.htm">https://anzeninfo.mhlw.go.jp/user/anzen/tok/anst00.htm</a> (MHLW, Japan)

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Fatal accidents in electrical appliance in Japan in 1999-2021

electrical appliance industry Code No.011402

Type of fatal 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																				1				1	fall from height
falling to same level																					1			1	falling to same
crash																									crash
struck by flying or																									struck by flying
falling object																									or falling object
collapse									1															1	collapse
crashed by																									crashed by
caught in/between	1	2																1						4	caught in/between
cut																									cut

		-	_	=	_		-	_	=	=	_				 _		 		_	 _	
injury to the sole of																					injury to the sole
the foot																					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

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	total	Causal (L)
machine		2																1						3	machine
crane, conveying machine												7			1									8	crane, conveying machine
other equipment	1																			1				2	other equipment
temporary buildings, establishments																									temporary buildings, establishments
substance, material		1							1															2	substance, material
load																									load
environment						1																		1	environment
others							1								1			1			1			4	others
total	1	3				1	1		1			7			2			2		1	1			20	total

Causal agents (middle) of fatal accidents in electrical appliance in 1999-2021

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	total	Causal (M)
Causai (M) agents	1999	2000	2001	2002	2003	2004	2003	2000	2007	2000	2009	2010	2011	2012	2013	2014	2013	2010	2017	2010	2019	2020	2021	l 1	agents

engine														engine
power transmission mechanism														power transmission mechanism
woodworking machine														woodworking machine
construction machine														construction machine
metal manufacturing machine	1												1	metal manufacturing machine
general machine	1									1			2	general machine
mobile silviculture machine														mobile silviculture machine
crane														crane
conveying machine						7		1					8	conveying machine
vehicle														vehicle
pressure vessel														pressure vessel
chemical facilities														chemical facilities
welding equipment														welding equipment

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kiln, caldron																		kiln, caldron
electric equipment																		electric
	_			<u> </u>			<u> </u>											equipment
human power machine,																		human power
tools																		machine, tools
tools														1			1	tools
other equipments,																		other
facilities	1																1	equipments,
lacinues																		facilities
																		temporary
temporary buildings,																		buildings,
establishments																		establishments
																		hazards,
hazards, harmful		1															1	harmful
substances																		substances
materials							1										1	materials
load																		load
																		natural
natural environment																		environment
46																		other causal
other causal agent															I			agent
no causal agent					1						1		1				3	no causal
no causal agent																	) 	agent
unclassifiable																		unclassifiable
<u> </u>	=	-:	 		 	-	-	!	 	=	=	 					 	<u> </u>

	total	1	3				1	1		1			7			2			2		1	1			20	total	
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Causal agents (small) of fatal accidents in electrical appliance in 1999-2021

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	total	Causal (S) agents
engine																									engine
power transmission																									power transmission
mechanism																									mechanism
circular sawing																									circular sawing
machine																									machine
band sawing																									band sawing
machine																									machine
wood planer																									wood planer
machine																									machine
hollow chisel																									hollow chisel
mortiser, wood																									mortiser, wood
borer																									borer
chamfering																									chamfering
machine, router,																									machine, router,
woodworking																									woodworking
milling machine																									milling machine
chain saw																									chain saw
other woodworking																									other woodworking
machines																									machines

leveling,													leveling,
transporting or													transporting or
loading machine													loading machine
excavating machine													excavating machine
foundation work													foundation work
machine													machine
hardening machine													hardening machine
demolition machine													demolition machine
vehicle for high lift													vehicle for high lift
work													work
other construction													other construction
machines													machines
lathe													lathe
drill press, milling													drill press, milling
machine													machine
grinding machine,													grinding machine,
buffing machine													buffing machine
power press	1											1	power press
forging pressure													forging pressure
hammer													hammer
shearing machine													shearing machine
other metal													other metal
manufacturing													manufacturing
machines													machines

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

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

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

hand tool														hand tool
ladder											1		1	ladder
slinging tool														slinging tool
other tools														other tools
other equipment,	1												1	other equipment,
scaffolding														scaffolding
timbering														timbering
stairs, landing stage														stairs, landing stage
opening														opening
roof, beam, haze, crossbeam, principal rafter														roof, beam, haze, crossbeam, principal rafter
working platform,														working platform, boot board
passage														passage
building, establishment														building, establishment
other temporary buildings, establishments														other temporary buildings, establishments
explosive substance														explosive substance
inflammable substance														inflammable substance

inflammable gas														inflammable gas
harmful substance														harmful substance
radiation														radiation
other hazards,													1	other hazards,
harmful substances	I													harmful substances
metal material					1								1	metal material
lumber, bamboo														lumber, bamboo
stone, sand,														stone, sand,
substance														substance
other materials														other materials
load														load
machine/equipment														machine/equipment
as load														as load
natural ground,														natural ground,
rock														rock
standing tree														standing tree
water			1										1	water
abnormal														abnormal
environment														environment
high/cold														high/cold
temperature														temperature
environment														environment
other environments														other environments
other causal agent											1		1	other causal agent

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						1			1						1						1			4	60 years old or
more						•									•						•			-	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
ı																									

100-299		1					1		7		1						10	100-299
300 workers or	1	2			1	1							1		1		7	300 workers or
more			igsquare		<u> </u>									Щ				more
total	1	3			1	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	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																									Hokkaido
Aomori																									Aomori
lwate																									lwate
Miyagi																									Miyagi
Akita																									Akita
Yamagata																									Yamagata
Fukushima																									Fukushim
lbaraki																									Ibaraki
Tochigi																									Tochigi
Gunma																					1			1	Gunma
Saitama																									Saitama
Chiba																									Chiba
Tokyo																									Tokyo
Kanagawa		1					1																	2	Kanagaw
Niigata						1									1									2	Niigata
Toyama																		1						1	Toyama
Ishikawa																									Ishikawa
Fukui																									Fukui
Yamanashi																									Yamanasl
Nagano																									Nagano
Gifu		1																						1	Gifu

Shizuoka	1														1	Shizuoka
Aichi																Aichi
Mie								7							7	Mie
Shiga												1			1	Shiga
Kyoto																Kyoto
Osaka		1											1		2	Osaka
Hyogo																Hyogo
Nara																Nara
Wakayama																Wakayama
Tottori																Tottori
Shimane										1					1	Shimane
Okayama																Okayama
Hiroshima						1									1	Hiroshima
Yamaguchi																Yamaguchi
Tokushima																Tokushima
Kagawa																Kagawa
Ehime																Ehime
Kochi																Kochi
Fukuoka																Fukuoka
Saga																Saga
Nagasaki																Nagasaki
Kumamoto																Kumamoto
Oita																Oita

Miyazaki																	Miyazaki
Kagoshima																	Kagoshima
Okinawa																	Okinawa
total	1	3		1	1	1		7		2		2	1	1		20	total

Data sources: <a href="https://anzeninfo.mhlw.go.jp/user/anzen/tok/anst00.htm">https://anzeninfo.mhlw.go.jp/user/anzen/tok/anst00.htm</a> (MHLW, Japan)

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