Fatal and non-fatal accidents in electronics equipment and telecommunications apparatus in Japan in 1999-2021

electronics equipment and telecommunications apparatus industry Code No.011403

Type of accidents in electronics equipment and telecommunications apparatus 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	40	48	41	37	45	36	41	42	46	37	26	26	34	29	30	25	31	29	31	50	27	36	41	828	fall from height
falling to same level	73	73	94	72	88	57	57	91	98	92	68	75	84	62	76	90	76	100	108	96	95	97	102	1,924	falling to same level
crash	21	19	17	14	13	21	13	8	14	10	7	13	18	20	14	9	15	13	13	15	14	17	27	345	crash
struck by flying or falling object	22	29	25	23	23	22	23	17	19	29	18	22	8	18	17	13	16	18	12	14	6	19	15	428	struck by flying or falling object
collapse	6	10	7	11	9	7	7	7	8	5	3	3	11	3	1	3	2	4	3	5	5	2	2	124	collapse
crashed by	8	18	8	13	9	25	9	11	18	8	6	14	7	4	2	10	7	7	12	14	14	10	16	250	crashed by
caught in/between	139	174	136	106	118	111	112	82	86	85	71	53	74	62	61	70	47	60	47	52	54	49	50	1,899	caught in/between
cut	38	35	32	20	28	29	26	19	34	16	15	25	12	13	17	17	15	6	19	10	11	22	17	476	cut
injury to the sole of the foot			1			1	1								2			2			1	1	1	10	injury to the sole of the foot
drown												1	7											8	drown
contact to high/low-temperature	6	13	6	5	3	5	6	3	4	8	2	3	4	6	5	1	3	4	9	3	2	6	10	117	contact to high/low-temperature

contact to harmful substance	20	7	7	14	6	8	11	13	8	10	9	6	9	5	9	6	7	5	6	6	4	5	6	187	contact to harmful substance
electric shock	4	3	2	1	1	4	1	2			1	1		2	1	1			1	1			1	27	electric shock
explosion	1	2		1	6	1		1						1		1		1			2	3		20	explosion
burst				1						1		1		1				1			1			6	burst
fire	2	1	2		1				2					1			1		1					11	fire
traffic accident (public road)	8	13	18	17	9	12	28	4	7	13	12	8	12	9	4	12	7	5	5	7	5	3	11	229	traffic accident (public road)
traffic accident (others)					1		2																	3	traffic accident (others)
reaction to motion/improper motion	41	53	47	48	32	44	57	62	59	57	39	50	47	55	33	47	50	52	39	50	54	59	65	1,140	reaction to motion/improper motion
others	7	1	1	3	5	3	3	5	3	3	1	2	5	1	2		4	5	1	3	3	13	98	172	others
unclassifiable		1	3	3	1	3				2	1					1	1		1	1			2	20	unclassifiable
total	436	500	447	389	398	389	397	367	406	376	279	303	332	292	274	306	282	312	308	327	298	342	464	8,224	total

Causal agents (large) of fatal and non-fatal accidents in electronics equipment and telecommunications apparatus in 1999-2021

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) agents
machine	146	180	128	111	106	115	109	84	89	85	70	68	77	60	62	72	50	55	60	50	51	53	49	1,930	machine
crane, conveying																									crane,

machine	43	37	50	32	33	36	41	24	34	37	25	22	30	25	15	20	19	19	24	22	19	18	28	653	conveying machine
other equipment	56	77	51	52	57	66	53	57	61	67	41	51	41	51	53	58	47	56	48	52	64	63	73	1,295	other equipment
temporary buildings, establishments	82	88	105	85	96	76	76	94	112	84	72	78	87	71	76	80	82	99	104	99	89	110	103	2,048	temporary buildings, establishments
substance, material	48	51	40	47	43	39	44	31	43	35	25	31	21	23	22	19	24	25	19	23	25	22	23	723	substance, material
load	28	34	38	24	24	28	36	38	33	28	21	17	24	18	16	23	23	18	14	22	14	16	31	568	load
environment	7	11	11	8	10	9	11	11	7	12	5	5	21	14	14	12	10	7	9	21	7	13	16	251	environment
others	26	22	24	30	29	20	27	28	27	28	20	31	31	30	16	22	27	33	30	38	29	47	141	756	others
total	436	500	447	389	398	389	397	367	406	376	279	303	332	292	274	306	282	312	308	327	298	342	464	8,224	total

Causal agents (middle) of fatal and non-fatal accidents in electronics equipment and telecommunications apparatus 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									1							3	engine
power transmission mechanism	6	2	1	1	4	7	5	2	4	4	3	3	2	5	3	3		3	3	2	2	2	2	69	power transmission mechanism
woodworking machine	2	3	2	1	4	3	1	2	4	1		1	1		2		2		4			2	2	37	woodworking machine

construction machine							1												1	2				4	construction machine
metal manufacturing machine	63	88	53	49	46	42	45	29	36	37	30	30	28	21	20	18	21	17	23	16	24	30	19	785	metal manufacturing machine
general machine	75	86	72	60	52	63	57	50	45	43	37	34	46	34	37	51	26	35	29	30	25	19	26	1,032	general machine
mobile silviculture machine																									mobile silviculture machine
crane	5	2	10	3	5		1	7	4	6	1	3	3	4	2	1	1	3	6	4	3	2	3	79	crane
conveying machine	27	20	25	11	19	23	10	12	13	15	8	9	7	9	6	5	9	7	10	13	8	12	12	290	conveying machine
vehicle	11	15	15	18	9	13	30	5	17	16	16	10	20	12	7	14	9	9	8	5	8	4	13	284	vehicle
pressure vessel								1				3		1	2									7	pressure vessel
chemical facilities				1	1		1			2	1		1	1	1	1	1	2		1			1	15	chemical facilities
welding equipment		1	1	2		1	1			2	1			2	2	1			1			1	3	19	welding equipment
kiln, caldron	2	2		1	4	2	1	2		2			2		1		1			1	2	1	1	25	kiln, caldron
electric equipment	4	4		4	2	4	2	3	1	1	4			2	2			3	2	4	2	4	1	49	electric equipment
human power machine, tools	20	20	25	15	21	19	19	16	23	24	11	19	13	17	15	21	11	15	22	15	24	26	28	439	human power machine, tools

tools	21	31	19	18	23	26	18	21	26	23	17	19	14	16	20	26	25	24	17	25	22	21	30	502	tools
other equipments, facilities	9	19	6	11	6	14	11	14	11	13	7	10	11	12	10	9	9	12	6	6	14	10	9	239	other equipments, facilities
temporary buildings, establishments	82	88	105	85	96	76	76	94	112	84	72	78	87	71	76	80	82	99	104	99	89	110	103	2,048	temporary buildings, establishments
hazards, harmful substances	25	14	11	18	9	11	12	12	10	10	8	7	8	7	8	5	8	7	8	7	7	6	7	225	hazards, harmful substances
materials	23	37	29	29	34	28	32	19	33	25	17	24	13	16	14	14	16	18	11	16	18	16	16	498	materials
load	28	34	38	24	24	28	36	38	33	28	21	17	24	18	16	23	23	18	14	22	14	16	31	568	load
natural environment	7	11	11	8	10	9	11	11	7	12	5	5	21	14	14	12	10	7	9	21	7	13	16	251	natural environment
other causal agent	9	6	4	6	7	3	1	6	5	5	4	2	6	2	2		5	9	5	4	3	17	101	212	other causal agent
no causal agent	16	14	19	24	16	16	26	22	20	21	15	29	25	28	13	22	21	24	24	34	26	30	38	523	no causal agent
unclassifiable	1	2	1		6	1			2	2	1				1		1		1				2	21	unclassifiable
total	436	500	447	389	398	389	397	367	406	376	279	303	332	292	274	306	282	312	308	327	298	342	464	8,224	total

Causal agents (small) of fatal and non-fatal accidents in electronics equipment and telecommunications apparatus 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			1		4		5	2	4	4	3	3	2	5	3	3		3	3	2	2	2	2	53	power transmission mechanism
circular sawing machine			1		3			1	1	1		1	1		2				1			1	1	14	circular sawing machine
band sawing machine					1			1														1		3	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									1										1					2	chain saw
other woodworking machines			1				1		2								1		2				1	8	other woodworking machines
leveling, transporting or loading machine																			1	2				3	leveling, transporting or loading machine
excavating machine							1																	1	excavating machine
foundation work machine																									foundation work machine

hardening machine																									hardening machine
demolition machine																									demolition machine
vehicle for high lift work																									vehicle for high lift work
other construction machines																									other construction machines
lathe			1		3		2	2		2	3	3	1	3	1	1	5		4	1	1	4	1	38	lathe
drill press, milling machine			7		2		5	5	2	3	2	4	2		2	1	5		1	3	2	2		48	drill press, milling machine
grinding machine, buffing machine			5		3		8	2	5	6	6	2	7	2	1		2	3	4		3	4	1	64	grinding machine, buffing machine
power press			25		19		20	9	12	15	11	8	5	6	8	5	5	10	4	9	9	10	7	197	power press
forging pressure hammer							1																	1	forging pressure hammer
shearing machine					1			1	2	1	2	1		1	1	1		1	1				1	14	shearing machine
other metal manufacturing machines			15		18		9	10	15	10	6	12	13	9	7	10	4	3	9	3	9	10	9	181	other metal manufacturing machines
centrifugal machine																									centrifugal machine
mixer, grinder			1		3		2		3	1			1	2	1	2			1		1	1	2	21	mixer, grinder
roll machine (except printingroll machine)			1		2			2	4	3	3	5	3	1	1	2	4		2	4		1	2	40	roll machine (except printingroll machine)
injection molding																									injection molding

machine			1		2		1	3	1		4	2	2	1		1		3			2	1	2	26	machine
food manufacturing machine															1									1	food manufacturing machine
printing machine			3				1	1				2	4			2			1	1	1	2		18	printing machine
industrial robot			1				1	2	1	1	1	1	1		1		1	1	2		1	1	1	17	industrial robot
other general power machines			65		45		52	42	36	38	29	24	35	30	33	44	21	31	23	25	20	13	19	625	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			3		2		1	6	3	4	1		2	3				2	4	2	2	1	3	39	crane
mobile crane									1			2							2					5	mobile crane
derrick crane																									derrick crane
elevator, lift			6		2			1		1		1	1	1	2		1	1		2		1		20	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						1					1			5	other powered crane
truck			6		8		1	4	4	7	2	1	3	3	1	1	4	4	5	8	5	2	3	72	truck
forklift			9		5		2	5	5	3	4	4	2	4	1	3	3	2	3	2		6	4	67	forklift
railway equipment										2														2	railway equipment
conveyor			8		5		5	2	4	1	1	1	1	1	4	1	1	1	1	2		2	4	45	conveyor
loader																									loader
straddle carrier																									straddle carrier
rough terrain hauler																									rough terrain hauler
other powered conveying machines			2		1		2	1		2	1	3	1	1			1		1	1	3	2	1	23	other powered conveying machines
cars, bus, motorcycle			15		8		29	4	16	16	13	10	20	11	7	14	9	9	7	5	7	4	12	216	cars, bus, motorcycle
railway vehicle							1												1					2	railway vehicle
other vehicles					1			1	1		3			1							1		1	9	other vehicles
boiler																									boiler
pressure vessel								1							2									3	pressure vessel
other pressure vessels												3		1										4	other pressure vessels
chemical facilities					1		1			2	1		1	1	1	1	1	2		1			1	14	chemical facilities
gas welding														1										1	gas welding

equipment																									equipment
arc welding equipment																							1	1	arc welding equipment
other welding equipment			1				1			2	1			1	2	1			1			1	2	13	other welding equipment
kiln, caldron					2		1	2					1		1		1			1	2	1	1	13	kiln, caldron
industrial dryer					2					2														4	industrial dryer
other kiln, caldron													1											1	other kiln, caldron
transmission										1	1							1			1	2		6	transmission
electric power facilities					1		2		1		2			1	1				1	3		1		13	electric power facilities
other electrical equipment					1			3			1			1	1			2	1	1	1	1	1	14	other electrical equipment
human power cranes										1		1		1							1	2	3	9	human power cranes
human power hauling equipment			12		14		10	9	14	16	7	8	10	10	10	16	7	14	17	9	19	16	18	236	human power hauling equipment
human power machine			2				1	1	2				1	1		1	1							10	human power machine
hand tool			11		7		8	6	7	7	4	10	2	5	5	4	3	1	5	6	4	8	7	110	hand tool
ladder			8		10		7	13	11	12	8	7	7	8	9	13	15	11	7	17	6	10	19	198	ladder
slinging tool									1		1			1										3	slinging tool
other tools			11		13		11	8	14	11	8	12	7	7	11	13	10	13	10	8	16	11	11	205	other tools
other equipment,																									other equipment,

facilities			6		6		11	14	11	13	7	10	11	12	10	9	9	12	6	6	14	10	9	186	facilities
scaffolding					1		2		1	1								2					2	9	scaffolding
timbering																									timbering
stairs, landing stage			21		22		25	28	27	18	18	16	26	16	22	9	13	18	25	22	23	35	26	410	stairs, landing stage
opening			2		4		1	1	1	3	1	2	2	1		1		1			1	1	1	23	opening
roof, beam, haze, crossbeam, principal rafter			3									1	1	2	1	1		1					1	11	roof, beam, haze, crossbeam, principal rafter
working platform, boot board			12		7		6	12	16	8	13	5	8	9	7	11	3	5	6	3	4	9	7	151	working platform, boot board
passage			53		49		27	40	48	37	24	46	36	38	39	47	50	63	61	60	55	53	48	874	passage
building, establishment			9		8		11	4	11	8	8	4	7	3	4	5	9	3	6	5	3	9	14	131	building, establishment
other temporary buildings, establishments			5		5		4	9	8	9	8	4	7	2	3	6	7	6	6	9	3	3	4	108	other temporary buildings, establishments
explosive substance			1		6													1						8	explosive substance
inflammable substance			3				3		4	2		2		1			1	1	1			3	1	22	inflammable substance
inflammable gas																									inflammable gas
harmful substance			4		3		2	7	4	4	4	3	5	3	3	4	4	3	5	3	4	2	4	71	harmful substance
radiation																									radiation
other hazards, harmful substances			3				7	5	2	4	4	2	3	3	5	1	3	2	2	4	3	1	2	56	other hazards, harmful substances

metal material			25		21		25	12	20	15	12	13	8	12	9	6	11	13	7	12	14	10	11	256	metal material
lumber, bamboo					1		1		1			1	2	1	2	5				1				15	lumber, bamboo
stone, sand, substance			1													1		1				1		4	stone, sand, substance
other materials			3		12		6	7	12	10	5	10	3	3	3	2	5	4	4	3	4	5	5	106	other materials
load			32		20		26	33	29	24	20	15	20	16	12	18	21	15	12	14	12	14	29	382	load
machine/equipment as load			6		4		10	5	4	4	1	2	4	2	4	5	2	3	2	8	2	2	2	72	machine/equipment as load
natural ground, rock			2		1		1					1				2	1		1					9	natural ground, rock
standing tree																									standing tree
water					1		1	1					9											12	water
abnormal environment					2				1	1				1								2		7	abnormal environment
high/cold temperature environment			2		2		1	5	3	1	1		1	2	4		2	1	3	3	1	2	3	37	high/cold temperature environment
other environments			7		4		8	5	3	10	4	4	11	11	10	10	7	6	5	18	6	9	13	151	other environments
other causal agent			4		7		1	6	5	5	4	2	6	2	2		5	9	5	4	3	17	101	188	other causal agent
no causal agent			19		16		26	22	20	21	15	29	25	28	13	22	21	24	24	34	26	30	38	453	no causal agent
unclassifiable			1		6				2	2	1				1		1		1				2	17	unclassifiable
total			447		398		397	367	406	376	279	303	332	292	274	306	282	312	308	327	298	342	464	6,510	total

Workers age of fatal and non-fatal accidents in electronics equipment and telecommunications apparatus 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	22	20	16	15	14	8	12	6	8	3	4		3	4	5	6	4	3	2	3	4	4	185	19 years old or less
20-29	93	133	124	100	88	103	104	88	86	87	39	49	70	48	45	52	34	45	30	39	43	43	67	1,610	20-29
30-39	112	110	100	94	104	101	110	103	117	101	80	84	80	73	57	60	69	66	60	60	48	52	90	1,931	30-39
40-49	101	90	85	80	69	84	80	86	88	84	86	76	96	89	82	75	85	82	76	98	84	96	125	1,997	40-49
50-59	89	123	95	87	89	68	80	61	91	72	50	70	63	58	61	83	59	83	97	98	93	99	115	1,884	50-59
60 years old or more	22	22	23	12	33	19	15	17	18	24	21	20	23	21	25	31	29	32	42	30	27	48	63	617	60 years old or more
total	436	500	447	389	398	389	397	367	406	376	279	303	332	292	274	306	282	312	308	327	298	342	464	8,224	total

Workers' number of workplace of fatal and non-fatal accidents in electronics equipment and telecommunications apparatus 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	45	68	55	55	47	36	37	39	34	34	26	22	15	9	13	26	19	7	18	20	11	13	14	663	9 workers or less
10-29	75	79	82	68	76	67	54	49	36	37	29	28	40	45	31	46	33	24	33	31	38	28	46	1,075	10-29
30-49	58	72	50	43	56	52	41	38	31	40	22	21	36	29	28	33	23	35	32	28	16	34	25	843	30-49
50-99	58	73	70	50	67	60	72	47	66	47	45	52	40	43	46	53	43	44	47	39	52	49	78	1,241	50-99
100-299	106	121	87	97	74	102	107	124	107	97	70	89	81	70	71	65	73	88	77	89	77	101	122	2,095	100-299
300 workers or more	94	87	103	76	78	72	86	70	132	121	87	91	120	96	85	83	91	114	101	120	104	117	179	2,307	300 workers or more
total	436	500	447	389	398	389	397	367	406	376	279	303	332	292	274	306	282	312	308	327	298	342	464	8,224	total

Month of fatal and non-fatal accidents in electronics equipment and telecommunications apparatus 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	40	47	49	33	51	32	35	37	34	34	28	31	30	26	38	29	24	26	33	46	23	37	49	812	January
February	42	37	50	36	24	30	31	42	33	49	30	23	31	36	21	35	27	23	35	30	33	28	24	750	February
March	43	48	38	38	32	38	51	29	51	31	31	26	40	27	24	26	26	28	23	37	24	31	29	771	March
April	38	31	29	21	30	39	28	31	30	32	27	23	25	27	27	24	20	34	14	22	24	26	61	663	April
May	26	36	41	40	39	34	23	27	43	35	16	26	20	16	16	25	24	21	22	25	24	33	40	652	May
June	37	43	36	35	30	23	33	30	38	33	14	21	27	29	21	33	24	23	29	26	21	28	27	661	June
July	37	39	50	40	22	44	41	33	34	31	28	30	26	27	33	25	37	25	22	23	33	23	45	748	July
August	41	41	25	35	39	31	33	21	27	27	14	28	33	26	18	16	23	32	25	16	31	31	61	674	August
September	34	42	34	30	20	32	25	31	27	29	27	28	26	23	28	26	20	26	21	25	17	30	25	626	September
October	36	47	42	30	44	37	37	34	36	28	23	23	23	23	17	21	22	24	23	27	20	28	34	679	October
November	35	46	28	27	27	27	30	26	29	23	20	29	26	19	11	27	20	30	34	30	26	23	43	636	November
December	27	43	25	24	40	22	30	26	24	24	21	15	25	13	20	19	15	20	27	20	22	24	26	552	December
total	436	500	447	389	398	389	397	367	406	376	279	303	332	292	274	306	282	312	308	327	298	342	464	8,224	total

Prefecture of fatal and non-fatal accidents in electronics equipment and telecommunications apparatus 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	7	7	4		5		3	6	5	3	4	3	6	2	1	2	2	3	3	2		7	5	80	Hokkaido
Aomori	10	1	2		1		8	5	5	7	3	3	3	3	5	6	2	5	8	4	2	6	11	100	Aomori
Iwate	10	12	8		12		8	8	10	4	7	5	10	2	10	8	9	5	6	3	8	8	10	163	Iwate

Miyagi	12	14	8		14		11	21	6	24	11	7	17	8	13	4	8	13	9	11	15	9	22	257	Miyagi
Akita	12	8	12		13		9	6	9	5	6	9	11	5	6	7	5	10	9	11	6	5	11	175	Akita
Yamagata	19	14	13		11		8	19	14	6	6	10	13	12	6	14	6	19	10	16	11	11	8	246	Yamagata
Fukushima	21	19	16		24		23	17	19	10	16	18	14	15	9	10	9	11	17	15	22	10	13	328	Fukushima
Ibaraki	11	10	6		7		7	10	10	7	8	11	12	5	7	7	5	5	5	8	4	3	7	155	Ibaraki
Tochigi	3	18	13		10		10	7	2	5	2	3	8	8	8	14	7	6	4	3	2	4	6	143	Tochigi
Gunma	7	14	13		18		4	6	9	8	4	10	8	7	5	10	10	7	5	5	7	9	11	177	Gunma
Saitama	13	12	19		15		12	17	18	13	10	11	12	7	7	13	9	10	11	13	10	12	5	249	Saitama
Chiba	5	6	8		4		9	6	7	8	9	4	2	5	5	7	6	8	6	3	3	9	7	127	Chiba
Tokyo	20	33	21		20		17	16	13	20	5	9	10	8	8	10	10	14	6	12	7	4	6	269	Tokyo
Kanagawa	26	45	21		21		18	19	15	24	13	9	20	16	13	12	11	11	12	15	7	11	18	357	Kanagawa
Niigata	17	9	11		9		15	5	17	7	6	11	5	7	8	8	10	10	12	11	9	3	9	199	Niigata
Toyama	6	12	10		11		9	14	13	11	6	11	8	11	4	5	5	5	8	17	10	7	11	194	Toyama
Ishikawa	4	8	10		7		11	5	12	9	8	6	10	5	3	11	4	8	7	7	7	14	5	161	Ishikawa
Fukui	3	9	10		5		7	7	8	6	5	4	7	2	7	8	5	4	7	13	5	11	11	144	Fukui
Yamanashi	5	12	15		4		5	7	9	5	4	7	6	3	5	5	5	6	5	4	2	6	6	126	Yamanashi
Nagano	37	27	34		29		13	17	18	21	13	14	17	22	27	19	15	13	16	23	29	15	33	452	Nagano
Gifu	10	10	11		3		10	4	9	7	6	3	6	8	5	6	4	13	11	10	10	22	12	180	Gifu
Shizuoka	11	17	12		11		14	11	14	9	11	5	5	10	5	11	11	9	12	7	11	11	13	220	Shizuoka
Aichi	13	9	10		9		11	13	16	14	10	9	12	9	11	13	11	12	14	10	9	9	10	234	Aichi
Mie	8	15	10		14		28	13	18	15	8	17	11	12	10	15	9	8	14	9	12	11	43	300	Mie
Shiga	10	16	9		9		7	9	11	16	3	6	8	4	8	8	8	14	6	7	6	8	10	183	Shiga
Kyoto	8	7	8		6		8	2	7	3	5	6	5	5	4	3	7	5	8	7	7	9	6	126	Kyoto

Osaka	24	15	11		12		10	11	13	20	8	8	8	7	12	4	17	8	11	11	14	12	8	244	Osaka
Hyogo	14	14	20		18		14	14	16	17	16	14	12	11	10	12	20	11	11	15	11	11	10	291	Hyogo
Nara	3	1	2		4		1	3	2	4	5	2	3	2	6	1	4	2	4	1	3	3	2	58	Nara
Wakayama	2	3	6		1		1	3	2	1		3	2	1	2	1	1		3	3			6	41	Wakayama
Tottori	4	13	7		7		4	3	3	3	4	7	1	5	2	3	1	2		3	2	2	3	79	Tottori
Shimane	4	5	9		4		7	2	4	4	2	8	4	5	3	4	5	4	5	2	4	13	9	107	Shimane
Okayama	7	6	11		6		3	9	12	8	7	9	2	5	2	3	4	5	5	9	4	8	5	130	Okayama
Hiroshima	3	5	13		6		7	7	8	2	2	5	5	8	4	3	1	3	5	2	2	6	25	122	Hiroshima
Yamaguchi	2	1	2		1			2	3	2	2		1	4		1	2	1		1	1	4	3	33	Yamaguchi
Tokushima	1	4	5		2		6		5	1		2	5	4	4	4	2	4	4	3		9	9	74	Tokushima
Kagawa	2	2	3		1		3	2	1	3		2	2	1	4	5		2	1	1	2		4	41	Kagawa
Ehime	4	4	5		3		2	2	2	2	6	2	1	2		1		3	3	1	3	2	1	49	Ehime
Kochi	5	3	2				1	2	1	5	2		3	4		1	4	4	2	1		2	1	43	Kochi
Fukuoka	9	19	12		6		10	8	8	14	6	6	10	2	6	5	4	2	6	7	3	5	18	166	Fukuoka
Saga	18	1	1		1		4	3	1	2	5	1	3	2	2		5	5	2	2	4	3	5	70	Saga
Nagasaki	5	3	3				1	3		2	4	1	5	3		1		2	1	2	3	2		41	Nagasaki
Kumamoto	5	12	8		10		13	8	10	7	7	8	13	13	7	8	10	5	6	6	10	4	10	180	Kumamoto
Oita	6	9	3		4		7	3	1	2	1	4	1	4		3	4	4	1	2	4	4	7	74	Oita
Miyazaki	6	3	1		4		3	3	7	1	3	1	1	2	1	1	1	4	4	5			3	54	Miyazaki
Kagoshima	4	13	9		16		15	9	11	8	10	9	4	6	9	9	4	7	3	4	7	17	26	200	Kagoshima
Okinawa									2	1												1		4	Okinawa
total	436	500	447		398		397	367	406	376	279	303	332	292	274	306	282	312	308	327	298	342	464	7,446	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: https://anzeninfo.mhlw.go.jp/user/anzen/tok/anst00.htm (MHLW, Japan)

Return to https://www.jisha.or.jp/english/statistics/2021e_industry.html

==========

Fatal accidents in electronics equipment and telecommunications apparatus in Japan in 1999-2021

electronics equipment and telecommunications apparatus industry Code No.011403

Type of fatal accidents in electronics equipment and telecommunications apparatus 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	1					1		1						1				6	fall from height
falling to same level																									falling to same level
crash																									crash
struck by flying or falling object																									struck by flying or falling object
collapse																									collapse
crashed by																									crashed by
caught in/between	2		1						1		2				1								1	8	caught in/between
cut																									cut

injury to the sole of the foot																									injury to the sole of the foot
drown													6											6	drown
contact to high/low-temperature																									contact to high/low-temperature
contact to harmful substance					1	1					1											2		5	contact to harmful substance
electric shock	1	1																						2	electric shock
explosion																									explosion
burst										1														1	burst
fire		1	1																					2	fire
traffic accident (public road)	1	2	2	2	1		3		1		1		1	1	1									16	traffic accident (public road)
traffic accident (others)							1																	1	traffic accident (others)
reaction to motion/improper motion																									reaction to motion/improper motion
others						2	1		1			1	1				1	1	1				1	10	others
unclassifiable																									unclassifiable
total	5	4	4	2	2	4	6		3	1	4	2	8	2	2		1	1	1	1		2	2	57	total

Causal agents (large) of fatal accidents in electronics equipment and telecommunications apparatus in 1999-2021

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) agents
machine	2	1									2				1									6	machine
crane, conveying machine	2	2	3	2	1		4		2		1		1	1	1									20	crane, conveying machine
other equipment	1											1								1				3	other equipment
temporary buildings, establishments						1	1							1										3	temporary buildings, establishments
substance, material		1	1							1	1													4	substance, material
load																							1	1	load
environment					1								7									2		10	environment
others						3	1		1			1					1	1	1				1	10	others
total	5	4	4	2	2	4	6		3	1	4	2	8	2	2		1	1	1	1		2	2	57	total

Causal agents (middle) of fatal accidents in electronics equipment and telecommunications apparatus 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																									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				1									5	general machine
mobile silviculture machine																									mobile silviculture machine
crane			1																					1	crane
conveying machine	1			1	1				1		1				1									6	conveying machine
vehicle	1	2	2	1			4		1				1	1										13	vehicle
pressure vessel																									pressure vessel
chemical facilities																									chemical facilities
welding equipment																									welding equipment

kiln, caldron																									kiln, caldron
electric equipment	1																							1	electric equipment
human power machine, tools																									human power machine, tools
tools																				1				1	tools
other equipments, facilities												1												1	other equipments, facilities
temporary buildings, establishments						1	1							1										3	temporary buildings, establishments
hazards, harmful substances		1	1							1	1													4	hazards, harmful substances
materials																									materials
load																							1	1	load
natural environment					1								7									2		10	natural environment
other causal agent						3																	1	4	other causal agent
no causal agent							1		1			1					1	1	1					6	no causal agent
unclassifiable																									unclassifiable

total	5	4	4	2	2	4	6		3	1	4	2	8	2	2		1	1	1	1		2	2	57	total

Causal agents (small) of fatal accidents in electronics equipment and telecommunications apparatus 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 mechanism																									power transmission mechanism
circular sawing machine																									circular sawing machine
band sawing machine																									band sawing machine
wood planer machine																									wood planer machine
hollow chisel mortiser, wood borer																									hollow chisel mortiser, wood borer
chamfering machine, router, woodworking milling machine																									chamfering machine, router, woodworking milling machine
chain saw																									chain saw
other woodworking machines																									other woodworking machines

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

centrifugal machine																									centrifugal machine
mixer, grinder																									mixer, grinder
roll machine (except printingroll machine)																									roll machine (except printingroll machine)
injection molding machine											1													1	injection molding machine
food manufacturing machine																									food manufacturing machine
printing machine																									printing machine
industrial robot																									industrial robot
other general power machines	1	1									1				1									4	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			1																					1	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																									other powered crane
truck				1	1				1		1				1									5	truck
forklift	1																							1	forklift
railway equipment																									railway equipment
conveyor																									conveyor
loader																									loader
straddle carrier																									straddle carrier
rough terrain hauler																									rough terrain hauler
other powered conveying machines																									other powered conveying machines
cars, bus, motorcycle	1	2	2	1			3		1				1	1										12	cars, bus, motorcycle
railway vehicle							1																	1	railway vehicle
other vehicles																									other vehicles
boiler																									boiler

pressure vessel																									pressure vessel
other pressure vessels																									other pressure vessels
chemical facilities																									chemical facilities
gas welding equipment																									gas welding equipment
arc welding equipment																									arc welding equipment
other welding equipment																									other welding equipment
kiln, caldron																									kiln, caldron
industrial dryer																									industrial dryer
other kiln, caldron																									other kiln, caldron
transmission																									transmission
electric power facilities	1																							1	electric power facilities
other electrical equipment																									other electrical equipment
human power cranes																									human power cranes
human power hauling equipment																									human power hauling equipment
human power machine																									human power machine

hand tool																									hand tool
ladder																				1				1	ladder
slinging tool																									slinging tool
other tools																									other tools
other equipment, facilities												1												1	other equipment, facilities
scaffolding																									scaffolding
timbering																									timbering
stairs, landing stage						1								1										2	stairs, landing stage
opening																									opening
roof, beam, haze, crossbeam, principal rafter																									roof, beam, haze, crossbeam, principal rafter
working platform, boot board																									working platform, boot board
passage																									passage
building, establishment							1																	1	building, establishment
other temporary buildings, establishments																									other temporary buildings, establishments
explosive substance																									explosive substance
inflammable substance			1																					1	inflammable substance

inflammable gas																									inflammable gas
harmful substance											1													1	harmful substance
radiation																									radiation
other hazards, harmful substances		1								1														2	other hazards, harmful substances
metal material																									metal material
lumber, bamboo																									lumber, bamboo
stone, sand, substance																									stone, sand, substance
other materials																									other materials
load																							1	1	load
machine/equipment as load																									machine/equipment as load
natural ground, rock																									natural ground, rock
standing tree																									standing tree
water													7											7	water
abnormal environment					1																	2		3	abnormal environment
high/cold temperature environment																									high/cold temperature environment
other environments																									other environments
other causal agent						3																	1	4	other causal agent

no causal agent							1		1			1					1	1	1					6	no causal agent
unclassifiable																									unclassifiable
total	5	4	4	2	2	4	6		3	1	4	2	8	2	2		1	1	1	1		2	2	57	total

Workers age of fatal accidents in electronics equipment and telecommunications apparatus 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		2	1	1		2					1	1									1	1	11	20-29
30-39	1	1				2	1		1						1		1		1					9	30-39
40-49	2	2		1		1	3		1	1	3	1	2	1	1			1						20	40-49
50-59			2		1	1			1		1		3									1		10	50-59
60 years old or more	1	1											2	1						1			1	7	60 years old or more
total	5	4	4	2	2	4	6		3	1	4	2	8	2	2		1	1	1	1		2	2	57	total

Workers' number of workplace of fatal accidents in electronics equipment and telecommunications apparatus 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		2									2											5	9 workers or less
10-29		1	1			1							4	1	1								1	10	10-29
30-49	1	1									1													3	30-49
50-99			2		1	1	2		1		2		1											10	50-99

100-299	1				1	1	1					2		1			1	1		1		2		12	100-299
300 workers or more	3	1	1			1	3		2	1	1		1		1				1				1	17	300 workers or more
total	5	4	4	2	2	4	6		3	1	4	2	8	2	2		1	1	1	1		2	2	57	total

Month of fatal accidents in electronics equipment and telecommunications apparatus 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	1					1	1					1		1				1	8	January
February	1	1	1				2																	5	February
March							2		1				8											11	March
April			1			1					1			1										4	April
May					1						1	1												3	May
June			2	1		2									1			1						7	June
July		1													1					1		2		5	July
August	1	1																						2	August
September	1	1							1	1													1	5	September
October	2						1		1					1										5	October
November											1													1	November
December							1																	1	December
total	5	4	4	2	2	4	6		3	1	4	2	8	2	2		1	1	1	1		2	2	57	total

Prefecture of fatal accidents in electronics equipment and telecommunications apparatus 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	Hokkaido
Aomori																									Aomori
Iwate													1											1	Iwate
Miyagi						1					1		6	1								2		11	Miyagi
Akita							1																	1	Akita
Yamagata	1	1							1										1					4	Yamagata
Fukushima							1		1															2	Fukushima
Ibaraki												1												1	Ibaraki
Tochigi				1																				1	Tochigi
Gunma			1			1				1														3	Gunma
Saitama				1			1							1										3	Saitama
Chiba						1					1													2	Chiba
Tokyo	1				1												1							3	Tokyo
Kanagawa	2	1	1				1																1	6	Kanagawa
Niigata												1												1	Niigata
Toyama																		1						1	Toyama
Ishikawa																									Ishikawa
Fukui																									Fukui
Yamanashi			1																					1	Yamanashi
Nagano		1	1												1									3	Nagano
Gifu	1																							1	Gifu

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

Miyazaki																				1				1	Miyazaki
Kagoshima																							1	1	Kagoshima
Okinawa																									Okinawa
total	5	4	4	2	2	4	6		3	1	4	2	8	2	2		1	1	1	1		2	2	57	total

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

Return to https://www.jisha.or.jp/english/statistics/2021e_industry.html