

Fatal and non-fatal accidents in electricity/telecommunication work in Japan in 1999-2021

electricity/telecommunication work industry Code No.030301

Type of accidents in electricity/telecommunication work in 1999-2021

[illegible]

contact to harmful substance	1	3	1		2	1	2	1	2	3	1	3	4	3	1	5	2	2	2	3	2		1	45	contact to harmful substance
electric shock	50	39	34	27	20	31	25	18	29	27	19	21	9	11	23	22	22	17	13	18	15	16	17	523	electric shock
explosion		1													2	1		2						6	explosion
burst		3	2		1	2				1		1					1							11	burst
fire				1		2				5		2				2				9				21	fire
traffic accident (public road)	67	54	49	46	58	56	67	62	50	40	49	44	35	56	40	43	44	47	47	49	58	38	34	1,133	traffic accident (public road)
traffic accident (others)	5	1									1				1	2			3	1	2	1		17	traffic accident (others)
reaction to motion/improper motion	54	43	63	46	43	36	37	43	54	48	41	39	38	36	43	36	41	27	36	48	41	43	47	983	reaction to motion/improper motion
others	3	1	5	4	1	6	3	5	8	4	1	3	11	5	3	3	8	3	14	6	5	8	114	224	others
unclassifiable	3	2		4	1		1		3	1			1	1	2		1	3	1					24	unclassifiable
total	940	825	852	758	698	730	655	696	679	713	627	627	657	607	634	622	560	509	583	567	572	573	677	15,361	total

Causal agents (large) of fatal and non-fatal accidents in electricity/telecommunication work in 1999-2021

[illegible]

construction machine	48	39	48	32	39	35	34	46	35	33	39	36	36	34	25	32	35	25	24	27	31	31	41	805	machine
metal manufacturing machine	17	12	18	15	11	10	6	11	8	10	11	6	8	10	3	10	2	4	6	9	4	6	4	201	metal manufacturing machine
general machine	14	15	15	13	7	12	6	8	5	9	9	6	11	11	7	8	6	5	7	6	5	7	8	200	general machine
mobile silviculture machine																						1		1	mobile silviculture machine
crane	28	34	31	13	25	29	16	21	20	27	27	22	16	17	24	27	20	19	7	23	19	21	16	502	crane
conveying machine	87	63	62	56	51	44	56	64	42	37	39	39	42	34	27	32	40	29	40	33	38	45	34	1,034	conveying machine
vehicle	57	39	34	40	45	44	48	45	40	39	49	36	29	54	46	38	42	40	41	41	50	32	28	957	vehicle
pressure vessel	1			1		2		1	1			1							1					8	pressure vessel
chemical facilities											1													1	chemical facilities
welding equipment		3	3		1	2	3	1	3	1	1		1		1	1				10	1	1		33	welding equipment
kiln, caldron	1										1													2	kiln, caldron
electric equipment	78	62	63	51	39	48	53	34	46	38	40	36	22	29	40	35	36	31	34	34	32	30	41	952	electric equipment
human power machine, tools	44	29	25	33	34	19	16	23	30	22	20	18	24	23	21	21	16	13	17	13	15	22	21	519	human power machine, tools
tools	203	182	188	185	150	175	155	165	137	177	140	160	155	136	164	128	121	108	124	105	135	99	116	3,408	tools

other equipments, facilities	10	12	4	15	5	7	7	8	10	18	9	10	12	6	18	13	8	10	4	5	5	9	11	216	other equipments, facilities
temporary buildings, establishments	181	197	185	158	164	170	152	163	163	172	139	153	179	151	150	143	126	120	140	134	114	151	130	3,535	temporary buildings, establishments
hazards, harmful substances	3	1	4	3	1	1	2	2	3	2	1	2	4	3	2	7	3	2	1	1	2	2	1	53	hazards, harmful substances
materials	60	59	65	52	39	41	34	37	48	43	37	32	38	36	29	37	25	32	31	32	30	27	27	891	materials
load	29	34	41	23	28	31	21	23	25	24	26	18	17	20	18	17	12	15	24	23	16	23	17	525	load
natural environment	34	16	25	30	21	33	22	18	27	33	13	27	40	21	32	34	32	33	45	42	43	35	40	696	natural environment
other causal agent	13	8	8	3	6	8	4	3	2	5	5	5	5	2	5	8	2	2	4	7	2	13	115	235	other causal agent
no causal agent	20	10	16	19	19	10	14	15	23	13	16	11	13	14	14	22	23	12	23	12	22	13	17	371	no causal agent
unclassifiable	3	2		4		1	1	2	3			1			1		1	3	2					24	unclassifiable
total	940	825	852	758	698	730	655	696	679	713	627	627	657	607	634	622	560	509	583	567	572	573	677	15,361	total

Causal agents (small) of fatal and non-fatal accidents in electricity/telecommunication work in 1999-2021

[illegible]

power transmission mechanism			2		1		1		2	1		1				2				1			2	13	power transmission mechanism
circular sawing machine			4		10		2	4	2	3	1	3	2	2	7	3	7	2	3	1	4	1	4	65	circular sawing machine
band sawing machine																									band sawing machine
wood planer machine					1															1				2	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			3				1	1	2	5	3	3	3	3		1	2	2	5	3	4	3	3	47	chain saw
other woodworking machines			5		1			1	2	1		1		1		3		1		4		1	1	22	other woodworking machines
leveling, transporting or loading machine			2				1	1			1				2	1			2		1	1	1	13	leveling, transporting or loading machine
excavating machine			6		3		2	8	1	2	3	3	4	4	4	3	2		3	4	4	7	5	68	excavating machine
foundation work machine			5		1		1	1	5	3	2	1	4	4	2	3	1	3		4	2	1	3	46	foundation work machine
hardening machine			1		2											1					1		1	6	hardening machine

[illegible]

food manufacturing machine																									food manufacturing machine
printing machine																									printing machine
industrial robot									1														1		industrial robot
other general power machines			15		6		6	8	5	7	8	5	10	10	7	8	6	4	7	6	4	7	7	136	other general power machines
felling machine																						1		1	felling machine
mobile logging machine																									mobile logging machine
skyline yarding machine																									skyline yarding machine
other mobile silviculture machine																									other mobile silviculture machine
crane			7		3		1	1	2	2	3	2	1		3	5	1	1	1	3	6	2	2	46	crane
mobile crane			15		13		10	14	14	19	16	13	14	11	16	12	15	14	5	16	9	16	10	252	mobile crane
derrick crane										1			1	2		1								5	derrick crane
elevator, lift			2		1		1			1	1			1		1					1		1	10	elevator, lift
cargo lifting appliance																									cargo lifting appliance
gondola																						1		1	gondola
lumberyard equipment, logging cableway									2	1				1				1						5	lumberyard equipment, logging cableway
simple skyline																							1	1	simple skyline

equipment			2				2	1	1	1	1		1		1	1				1				12	equipment
other welding equipment																									other welding equipment
kiln, caldron																									kiln, caldron
industrial dryer											1													1	industrial dryer
other kiln, caldron																									other kiln, caldron
transmission			29		22		26	14	28	24	22	20	11	14	21	14	23	19	24	21	21	15	24	392	transmission
electric power facilities			22		7		17	11	17	10	13	10	7	11	15	18	7	8	7	10	8	12	13	223	electric power facilities
other electrical equipment			12		10		10	9	1	4	5	6	4	4	4	3	6	4	3	3	3	3	4	98	other electrical equipment
human power cranes							3		2		1	2		1	2	1		1		1		1		15	human power cranes
human power hauling equipment			2		2		1	2	4	2	2	3	3	4	1	2	2	1	5	4	5	4	3	52	human power hauling equipment
human power machine			1						3		1				1	2	1					1		10	human power machine
hand tool			22		32		12	21	21	20	16	13	21	18	17	16	13	11	12	8	10	16	18	317	hand tool
ladder			172		133		139	141	125	152	128	143	144	117	148	118	109	93	113	89	115	90	98	2,367	ladder
slinging tool			5		4		5	2	3	6	2	2	4	3	6	1		3	3	2		3	1	55	slinging tool
other tools			11		13		11	22	9	19	10	15	7	16	10	9	12	12	8	14	20	6	17	241	other tools
other equipment, facilities			4		5		7	8	10	18	9	10	12	6	18	13	8	10	4	5	5	9	11	172	other equipment, facilities
scaffolding			17		12		13	13	15	10	12	9	15	3	11	8	8	6	4	6	1	7	6	176	scaffolding

timbering						1												1					2	timbering
stairs, landing stage			27		20	21	24	25	22	21	30	27	26	27	26	30	18	25	23	19	36	23	470	stairs, landing stage
opening			4		5	4	3	5		4	4	6	4	6	7	2	5	3	6	3	5	4	80	opening
roof, beam, haze, crossbeam, principal rafter			17		28	15	21	27	23	19	24	25	20	21	27	8	6	13	12	11	13	6	336	roof, beam, haze, crossbeam, principal rafter
working platform, boot board			14		18	8	14	13	13	3	19	13	9	11	11	8	9	17	7	13	7	5	212	working platform, boot board
passage			31		24	32	25	32	32	31	19	29	36	29	29	21	27	32	29	31	35	43	567	passage
building, establishment			49		34	30	47	28	52	30	32	41	39	33	19	30	31	31	33	18	29	26	632	building, establishment
other temporary buildings, establishments			26		23	28	16	18	20	19	16	23	14	12	16	19	18	15	17	18	19	17	354	other temporary buildings, establishments
explosive substance														2									2	explosive substance
inflammable substance			1			1		1							2					1	1		7	inflammable substance
inflammable gas							1										2				1		4	inflammable gas
harmful substance			1		1	1	1		1	1	2	1	2		4	1			1				17	harmful substance
radiation																								radiation
other hazards, harmful substances			2					2	1			3	1		1	2		1		1		1	15	other hazards, harmful substances
metal material			39		22	16	20	28	32	29	26	25	22	14	20	18	20	19	22	18	19	16	425	metal material
lumber, bamboo			14		3	4	6	6	1	2	2	3	4	4	5		5	2	5	5	1	2	74	lumber, bamboo

stone, sand, substance			2		2		3	3	5	3		2	1	1	5	4	1	2		2	3	1	4	44	stone, sand, substance
other materials			10		12		11	8	9	7	6	2	9	9	6	8	6	5	10	3	4	6	5	136	other materials
load			25		17		11	19	16	19	14	11	10	10	15	12	8	12	18	17	14	19	14	281	load
machine/equipment as load			16		11		10	4	9	5	12	7	7	10	3	5	4	3	6	6	2	4	3	127	machine/equipment as load
natural ground, rock			10		7		5	5	7	8	8	8	8	3	4	9	8	7	12	5	9	12	14	149	natural ground, rock
standing tree			3		4		4	5	6	11	3	3	6	7	6	7	3	5	15	5	11	5	7	116	standing tree
water							2			1			13							1	1			18	water
abnormal environment									1						1		1	1	1	1				6	abnormal environment
high/cold temperature environment			3		1		2	2	6	5	1	13	8	2	5	6	6	5	4	16	7	9	8	109	high/cold temperature environment
other environments			9		9		9	6	7	8	1	3	5	9	16	12	14	15	13	14	15	9	11	185	other environments
other causal agent			8		6		4	3	2	5	5	5	5	2	5	8	2	2	4	7	2	13	115	203	other causal agent
no causal agent			16		19		14	15	23	13	16	11	13	14	14	22	23	12	23	12	22	13	17	312	no causal agent
unclassifiable							1	2	3			1			1		1	3	2					14	unclassifiable
total			852		698		655	696	679	713	627	627	657	607	634	622	560	509	583	567	572	573	677	12,108	total

Workers age of fatal and non-fatal accidents in electricity/telecommunication work 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
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19 years old or less	25	17	22	20	18	14	13	12	13	11	17	13	13	11	13	12	13	7	11	7	16	10	19	327	19 years old or less
20-29	258	271	223	209	171	174	155	143	137	129	123	112	133	107	116	104	115	106	114	105	94	99	118	3,316	20-29
30-39	212	144	179	166	191	180	165	191	190	173	161	167	145	148	140	151	120	117	114	101	116	98	125	3,494	30-39
40-49	178	147	174	141	121	125	115	131	103	146	115	121	130	124	136	135	119	106	138	143	138	130	154	3,070	40-49
50-59	191	184	186	149	142	162	154	160	159	159	118	140	127	115	128	118	98	90	113	107	98	127	143	3,168	50-59
60 years old or more	76	62	68	73	55	75	53	59	77	95	93	74	109	102	101	102	95	83	93	104	110	109	118	1,986	60 years old or more
total	940	825	852	758	698	730	655	696	679	713	627	627	657	607	634	622	560	509	583	567	572	573	677	15,361	total

Workers' number of workplace of fatal and non-fatal accidents in electricity/telecommunication work 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	429	391	414	386	351	355	320	357	349	361	310	308	288	292	294	285	248	260	242	258	271	235	275	7,279	9 workers or less
10-29	270	237	252	223	190	199	192	180	202	191	172	186	202	160	185	192	181	136	192	166	157	204	225	4,494	10-29
30-49	109	89	82	64	76	90	67	71	61	82	60	60	88	65	62	65	61	52	75	74	74	66	77	1,670	30-49
50-99	63	57	54	52	49	42	48	49	40	46	52	37	46	55	45	47	45	39	36	35	36	43	36	1,052	50-99
100-299	56	46	41	26	25	36	23	32	17	26	26	26	28	30	41	24	19	17	31	25	26	17	53	691	100-299
300 workers or more	13	5	9	7	7	8	5	7	10	7	7	10	5	5	7	9	6	5	7	9	8	8	11	175	300 workers or more
total	940	825	852	758	698	730	655	696	679	713	627	627	657	607	634	622	560	509	583	567	572	573	677	15,361	total

Month of fatal and non-fatal accidents in electricity/telecommunication work 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
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January	72	66	71	64	58	66	57	61	49	63	54	47	42	48	58	47	43	38	42	42	45	42	63	1,238	January
February	89	73	85	66	63	71	61	54	77	54	59	62	55	62	56	52	56	50	42	55	47	54	63	1,406	February
March	82	71	94	65	62	61	61	64	58	75	49	61	85	44	53	59	44	49	60	44	52	51	58	1,402	March
April	89	72	56	68	66	53	55	49	47	45	48	46	45	47	52	63	36	35	42	39	46	34	62	1,195	April
May	63	48	55	58	59	53	53	57	56	46	52	46	42	50	36	49	38	39	44	34	41	38	48	1,105	May
June	83	72	64	63	58	49	47	49	60	60	55	49	53	52	50	48	52	34	52	47	37	44	53	1,231	June
July	70	83	82	72	45	71	50	46	62	68	55	64	52	47	56	64	50	37	72	82	46	68	80	1,422	July
August	70	71	58	54	67	78	55	65	62	65	48	56	50	52	53	53	51	38	48	39	56	45	73	1,307	August
September	84	72	62	67	52	63	58	70	51	72	52	52	59	57	50	54	46	51	44	50	60	46	42	1,314	September
October	79	67	79	65	64	50	51	64	47	56	54	50	57	48	63	42	65	65	40	48	41	52	42	1,289	October
November	76	68	66	49	54	50	47	59	56	57	46	50	56	49	56	42	39	40	51	46	53	53	51	1,214	November
December	83	62	80	67	50	65	60	58	54	52	55	44	61	51	51	49	40	33	46	41	48	46	42	1,238	December
total	940	825	852	758	698	730	655	696	679	713	627	627	657	607	634	622	560	509	583	567	572	573	677	15,361	total

Prefecture of fatal and non-fatal accidents in electricity/telecommunication work 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	57	44	37		32		46	34	41	35	21	25	33	39	44	42	34	36	26	27	40	40	37	770	Hokkaido
Aomori	6	8	12		5		6	8	4	9	11	5	6	14	8	5	7	7	3	7	4	5	8	148	Aomori
Iwate	8	12	9		7		5	6	5	9	6	4	16	8	8	15	4	5	12	7	8	8	7	169	Iwate
Miyagi	24	18	10		8		14	14	10	10	12	13	25	14	8	11	8	16	10	7	12	7	17	268	Miyagi
Akita	4	11	8		9		5	7	5	2	6	8	8	10	6	7	2	9	16	8	6	5	9	151	Akita
Yamagata	13	9	7		3		8	7	6	6	8	6	5	11	8	5	12	5	5	7	5	7	7	150	Yamagata

Fukushima	16	17	15		5		15	13	11	11	11	15	16	12	13	10	7	11	11	15	14	11	14	263	Fukushima
Ibaraki	22	26	28		22		20	24	21	10	14	15	15	15	11	12	8	11	15	16	11	11	8	335	Ibaraki
Tochigi	20	12	17		14		9	11	13	12	11	11	10	15	10	7	14	15	17	11	13	9	4	255	Tochigi
Gunma	19	17	13		9		15	14	20	15	14	19	10	13	13	17	12	5	6	16	9	14	13	283	Gunma
Saitama	34	39	44		22		21	36	29	36	31	20	34	39	32	25	17	16	19	21	22	18	29	584	Saitama
Chiba	34	33	42		40		29	34	30	33	23	33	33	24	37	28	23	22	23	18	31	27	25	622	Chiba
Tokyo	84	75	67		55		57	60	54	65	46	57	52	50	56	39	48	33	22	45	32	30	48	1,075	Tokyo
Kanagawa	52	37	32		33		37	41	38	33	36	29	25	16	17	18	23	24	32	16	26	26	32	623	Kanagawa
Niigata	26	22	21		16		15	20	20	15	17	11	19	18	15	16	12	17	20	10	21	17	44	392	Niigata
Toyama	13	6	18		12		14	8	5	10	9	5	15	4	10	4	9	5	3	11	6	4	9	180	Toyama
Ishikawa	6	10	8		6		10	6	9	7	5	7	11	10	11	11	7	5	9	13	5	4	5	165	Ishikawa
Fukui	7	5	6		4		5	2	5	12	3	6	9	6	3	12	9	5	9	5	8	6	8	135	Fukui
Yamanashi	11	8	17		7		5	5	7	11	2	5	2	3	6	3	5	1	3	2	3	4	2	112	Yamanashi
Nagano	18	9	15		16		9	15	8	18	14	14	16	13	13	19	16	16	12	15	11	10	21	298	Nagano
Gifu	17	14	10		14		13	11	12	13	9	16	6	12	12	10	12	13	13	11	14	7	12	251	Gifu
Shizuoka	30	22	30		40		24	21	22	24	23	26	14	18	18	23	10	16	8	13	18	18	15	433	Shizuoka
Aichi	38	37	35		20		19	39	30	39	27	24	26	25	24	21	26	22	24	28	25	25	19	573	Aichi
Mie	14	17	20		16		11	11	12	14	18	8	11	6	10	11	12	14	11	13	17	15	5	266	Mie
Shiga	7	9	6		5		4	6	10	4	4	8	8	4	9	5	5	4	8	8	9	8	6	137	Shiga
Kyoto	20	23	31		17		14	15	12	22	12	14	9	12	14	12	10	11	13	8	12	13	8	302	Kyoto
Osaka	73	48	54		56		44	39	47	42	46	49	33	28	29	20	29	27	29	32	24	32	76	857	Osaka
Hyogo	53	39	37		26		18	18	26	21	27	22	19	17	21	26	26	19	28	21	16	28	29	537	Hyogo
Nara	11	14	6		10		4	8	6	7	10	11	12	8	1	11	3	3	3	4	4	11	9	156	Nara

Wakayama	11	10	5		7		7	7	6	13	6	7	9	3	5	4	3	3	3	4	7	4	3	127	Wakayama
Tottori	4	3	4		4		5	2	3	1	3	1	5		1	2	3	1	3	3	3	3		54	Tottori
Shimane	4	4	7		2		3	1	5	8	9	7	2	3	4	7	3	2	4	5	2	2	6	90	Shimane
Okayama	12	9	5		12		9	9	7	12	10	8	12	18	9	13	11	13	10	10	13	12	10	224	Okayama
Hiroshima	22	13	12		18		16	17	25	11	17	14	19	11	18	17	13	13	22	11	12	11	11	323	Hiroshima
Yamaguchi	9	10	9		10		7	9	7	11	6	9	9	9	3	3	6	6	11	7	8	8	9	166	Yamaguchi
Tokushima	4	4	5		2		3	2	3	3	4	3	5	2	4	9	8	5	4	7	4	9	5	95	Tokushima
Kagawa	15	4	4		9		11	2	7	4	1	2	2	4	7	6	3	2	12	4	3	3	11	116	Kagawa
Ehime	8	9	11		7		3	14	10	7	3	5	10	7	10	8	10	3	10	9	11	12	6	173	Ehime
Kochi	4	2	8		5		6	3	4	5	5	7	6	6	7	9	2	8	4	8	3	2	9	113	Kochi
Fukuoka	35	46	45		47		31	41	37	35	26	34	22	28	28	27	20	23	17	27	28	19	17	633	Fukuoka
Saga	3	9	9		3		3	5	3	2	3	5	6	6	8	6	13	4	11	4	2	6	3	114	Saga
Nagasaki	17	9	15		7		4	10	7	3	5	3	11	7	11	8	7	7	8	5	9	11	9	173	Nagasaki
Kumamoto	15	11	10		5		10	8	6	9	13	5	5	9	8	8	8	5	8	10	10	8	7	178	Kumamoto
Oita	21	19	15		15		14	12	11	19	16	5	6	12	11	13	9	7	12	11	9	10	17	264	Oita
Miyazaki	5	6	14		7		8	7	2	6	7	9	10	6	8	16	12	2	7	10	10	15	11	178	Miyazaki
Kagoshima	12	7	15		4		8	10	10	10	9	7	13	7	19	14	13	9	21	9	9	16	9	231	Kagoshima
Okinawa	2	9	4		5		11	4	8	9	8	10	7	5	6	7	6	3	6	8	3	2	8	131	Okinawa
total	940	825	852		698		655	696	679	713	627	627	657	607	634	622	560	509	583	567	572	573	677	13,873	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)

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electricity/telecommunication work industry Code No.030301

[illegible]

contact to high/low-temperature		1		1	1	1						1	2	1									1	9	contact to high/low-temperature
contact to harmful substance	1	1						1			1						1							5	contact to harmful substance
electric shock	18	8	8	7	2	11	10	3	4	9	4	2	1	3		5	5	4	5	2	1	1	2	115	electric shock
explosion																									explosion
burst						1																		1	burst
fire										2										2				4	fire
traffic accident (public road)	2	5	4	6	9	6	4	6	6	2	3	4	6	5		3	5	1	6	3	3	5	2	96	traffic accident (public road)
traffic accident (others)															1									1	traffic accident (others)
reaction to motion/improper motion																									reaction to motion/improper motion
others					1	1		1					7	1	1		1	1	2		2		1	19	others
unclassifiable																1								1	unclassifiable
total	42	28	32	29	34	32	31	27	32	32	22	26	37	18	13	23	26	12	19	20	14	15	13	577	total

Causal agents (large) of fatal accidents in electricity/telecommunication work 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	4	3	4	2	3	2	3	3	4	3	2	3	2	3	2	3	2	2			2	2	2	56	machine
crane, conveying machine	8	10	7	10	12	9	4	7	8	4	5	8	8	5	1	4	8		7	5	3	6	2	141	crane, conveying machine
other equipment	24	9	12	8	3	13	13	8	10	17	11	7	4	7	6	8	9	6	8	6	3	4	5	201	other equipment
temporary buildings, establishments	5	5	6	7	13	3	7	8	9	7	3	6	6	2	2	5	3	3	2	5	3	1	1	112	temporary buildings, establishments
substance, material						1					1		1				1							4	substance, material
load			1		1		1					1								1	1			6	load
environment	1	1	1	2	1	4	2		1	1		1	16	1	2	2	2			3		2	3	46	environment
others			1		1		1	1								1	1	1	2		2			11	others
total	42	28	32	29	34	32	31	27	32	32	22	26	37	18	13	23	26	12	19	20	14	15	13	577	total

Causal agents (middle) of fatal accidents in electricity/telecommunication work 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	engine
power transmission mechanism																									power transmission mechanism

woodworking machine		1																					1	woodworking machine	
construction machine	3	2	4	1	3	2	3	3	4	3	2	3	2	3	2	3	2	2			2	2	2	53	construction machine
metal manufacturing machine				1																			1	metal manufacturing machine	
general machine																								general machine	
mobile silviculture machine																								mobile silviculture machine	
crane	3	5	1	1	1	1		1	3	1	1	1	1	1		1	3			3	1			29	crane
conveying machine	3	2	4	6	6	3	1	5	3	1	2	5	5	3			2		4	1	2	3	2	63	conveying machine
vehicle	2	3	2	3	5	5	3	1	2	2	2	2	2	1	1	3	3		3	1		3		49	vehicle
pressure vessel						1																	1	pressure vessel	
chemical facilities																								chemical facilities	
welding equipment																			2				2	welding equipment	
kiln, caldron																								kiln, caldron	
electric equipment	21	7	8	7	2	10	10	4	7	12	5	5	1	4	1	6	6	6	7	2	1	1	3	136	electric equipment

human power machine, tools	1										1				1									3	human power machine, tools
tools	2	2	4	1	1	1	3	4	3	3	5	2	3	3	4	2	3		1	2	2	2	2	55	tools
other equipments, facilities						1				2												1		4	other equipments, facilities
temporary buildings, establishments	5	5	6	7	13	3	7	8	9	7	3	6	6	2	2	5	3	3	2	5	3	1	1	112	temporary buildings, establishments
hazards, harmful substances											1						1							2	hazards, harmful substances
materials						1							1											2	materials
load			1		1		1					1								1	1			6	load
natural environment	1	1	1	2	1	4	2		1	1		1	16	1	2	2	2			3		2	3	46	natural environment
other causal agent			1		1			1																3	other causal agent
no causal agent																	1	1	2		2			6	no causal agent
unclassifiable							1									1								2	unclassifiable
total	42	28	32	29	34	32	31	27	32	32	22	26	37	18	13	23	26	12	19	20	14	15	13	577	total

Causal agents (small) of fatal accidents in electricity/telecommunication work in 1999-2021

[illegible]

foundation work machine								1	1													2	foundation work machine		
hardening machine			1																			1	hardening machine		
demolition machine																1						1	demolition machine		
vehicle for high lift work	3	2	2	1	2	2	2	3	3	3	1	3	1	3	2	3	2	1			2		2	43	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																								grinding machine, buffing machine	
power press																								power press	
forging pressure hammer																								forging pressure hammer	
shearing machine																								shearing machine	
other metal manufacturing machines				1																			1	other metal manufacturing machines	
centrifugal machine																								centrifugal machine	
mixer, grinder																								mixer, grinder	
roll machine (except printingroll machine)																								roll machine (except printingroll machine)	

[illegible]

[illegible]

gas welding equipment																				2				2	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	10	4	4	6	1	10	7	2	5	10	2	4	1	2	1	3	5	4	6	2	1	1	2	93	transmission
electric power facilities	8	2	4	1	1		3	2	2		3	1		2		3		2	1				1	36	electric power facilities
other electrical equipment	3	1								2							1							7	other electrical equipment
human power cranes															1									1	human power cranes
human power hauling equipment											1													1	human power hauling equipment
human power machine																									human power machine
hand tool	1																							1	hand tool
ladder	2	2	3	1	1	1	3	4	3	3	3	1	3	2	4	2	3		1	1		1	2	46	ladder
slinging tool			1								1											1		3	slinging tool
other tools											1	1		1						1	2			6	other tools

[illegible]

harmful substances																									harmful substances
metal material					1																		1	metal material	
lumber, bamboo																								lumber, bamboo	
stone, sand, substance																								stone, sand, substance	
other materials											1												1	other materials	
load		1	1															1	1				4	load	
machine/equipment as load						1					1												2	machine/equipment as load	
natural ground, rock	1	1			1			1	1					1	1	2			2		1	1	13	natural ground, rock	
standing tree			1											1				1		1			4	standing tree	
water						2						14											16	water	
abnormal environment		1																					1	abnormal environment	
high/cold temperature environment				1	1	1						1	2	1								1	8	high/cold temperature environment	
other environments						2								1								1	4	other environments	
other causal agent			1		1			1															3	other causal agent	
no causal agent																1	1	2		2			6	no causal agent	
unclassifiable							1								1								2	unclassifiable	
total	42	28	32	29	34	32	31	27	32	32	22	26	37	18	13	23	26	12	19	20	14	15	13	577	total

Workers age of fatal accidents in electricity/telecommunication work 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	1		1		1	1	1								1									6	19 years old or less
20-29	9	10	7	9	3	5	6	7	4	3	5	4	5	1	1	3	4	5	5	2	1	2	3	104	20-29
30-39	6	4	7	8	5	9	6	7	8	6	3	7	5	4	2	2		1	3	3	1	2	1	100	30-39
40-49	6	4	5	3	6	10	7	3	3	12	4	3	8	3	1	6	6	3	3	5	5	1		107	40-49
50-59	13	6	8	6	9	4	10	7	10	6	3	6	6	5	7	8	6	1	4	1	3	2	5	136	50-59
60 years old or more	7	4	4	3	10	3	1	3	7	5	7	6	13	5	1	4	10	2	4	9	4	8	4	124	60 years old or more
total	42	28	32	29	34	32	31	27	32	32	22	26	37	18	13	23	26	12	19	20	14	15	13	577	total

Workers' number of workplace of fatal accidents in electricity/telecommunication work 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	14	12	15	13	14	13	19	18	15	15	11	14	23	9	8	15	16	4	7	8	4	4	9	280	9 workers or less
10-29	15	10	6	12	10	12	9	8	13	10	2	7	10	5	3	5	8	3	7	11	7	8	2	183	10-29
30-49	8	1	6	2	4	1	1	1	3	4	5	1	2	2		2	1		2		1	2	1	50	30-49
50-99	3	4	3	1	6	1	2		1	3	3	3	1	1	1	1	1	3	1	1	1	1		42	50-99
100-299	2	1	1	1		4					1	1	1	1	1			2	1		1		1	19	100-299
300 workers or more			1			1													1					3	300 workers or more
total	42	28	32	29	34	32	31	27	32	32	22	26	37	18	13	23	26	12	19	20	14	15	13	577	total

Month of fatal accidents in electricity/telecommunication work 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	3	2	1	4	1				2	2	5	1	1	1		4	2	1	1		1	1	34	January
February	2	2	2	1	1		2	5	2	1	4	2	1	1	2	2	3	2	2	4	3	1		45	February
March	4	3	6			2	6	2	3	3	1	2	17			1	4	1	3	2	1	1		62	March
April	4		4	2	5	3	1	4	2	1		2	1	4	1	5	1	1	1					42	April
May	3	2	2	1	1	4		2	4	2		2	1		1	2	2	2	1	1	2		1	36	May
June	5	3	1	3		5	3	2	3		1	1	1	2		1	1	2	1	2	1	2		40	June
July	3	4	5	7	5	5	1	1	5	9	1	4	3	1	3	4			4	3	1	2	2	73	July
August	4	6		3	4	6	2	1	1	1	2	1	1	1	1	2	5		1			1	1	44	August
September	6	1	3	2	5	1	6	3	6	5	4	2	2	4	2	2	1	1	2	2	1	1	2	64	September
October	1	1	3	1	5	2	2	1	2	2	2	2		1			2				1	2	2	32	October
November	8	2	2	2	4	2	5			4	2	1	5	3	1	3	2			3	3	2	2	56	November
December	1	1	2	6		1	3	6	4	2	3	2	4		1	1	1	1	3	2	1	2	2	49	December
total	42	28	32	29	34	32	31	27	32	32	22	26	37	18	13	23	26	12	19	20	14	15	13	577	total

Prefecture of fatal accidents in electricity/telecommunication work 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	4	3		4	2	2	1	7	2	1	1		1		1	2	1		2	1	2	1	39	Hokkaido
Aomori						2	1	1		1			1		1									7	Aomori
Iwate	2			3	1	2							9			2						1		20	Iwate
Miyagi	2	3	1		1		1	1			1	1	6							2				19	Miyagi
Akita	1		1						1			1	1	1				1	1	2	1			11	Akita

Yamagata				1				1				1	1	1			1							6	Yamagata
Fukushima		1	1	1			1	2	1				3		1		1							12	Fukushima
Ibaraki	1			2		1	3	1	3				1	1					1					14	Ibaraki
Tochigi	1			1						1		1					1							5	Tochigi
Gunma	2	1	1	1			1			2	1	1	2			3		1		1				17	Gunma
Saitama	2		1	1	1	1			1	3	3		1	1		2	1		1	1	1			21	Saitama
Chiba	1		3	1	1	2		2	1		1	1	1		1	2	1	1			1	2		22	Chiba
Tokyo	1	6	8	1	3	3	1	2	1			3		1	1		3		1	2		1	2	40	Tokyo
Kanagawa	3				1		1	3	1	1	1				2		1						1	15	Kanagawa
Niigata	3							1		1	2				1			1			1	1		11	Niigata
Toyama																1								1	Toyama
Ishikawa	1		1	1		1		1					1	1		1								8	Ishikawa
Fukui				1						3				2			3	1	1			1		12	Fukui
Yamanashi	2		1		1				1					1					1					7	Yamanashi
Nagano	2				1	2	1				2	2				4			1					15	Nagano
Gifu		1		1	1		1		1	2						1	1	1						10	Gifu
Shizuoka	1			1	1	2	1			4		2	3				2					1	1	19	Shizuoka
Aichi	1	1	1	2		1				1		1	1	1	1		2		1		1	1		16	Aichi
Mie		1		1	1	1			1	1		2				1			1	2				12	Mie
Shiga	1	2		1	2	2	1	1							1				1	1				13	Shiga
Kyoto			1			1				2	2	1		1		1								9	Kyoto
Osaka			3	2	2		3	1	3	3	4	2	2		2				1		2	1		31	Osaka
Hyogo	1	3	3	1		1	2	2	2		2	2					1		2				1	23	Hyogo

Nara									2		1			1							1	1			6	Nara
Wakayama	1				2				1				1	1							1				7	Wakayama
Tottori																									Tottori	
Shimane											1					1		1							3	Shimane
Okayama	1			2	1			2		1			1	1								1			10	Okayama
Hiroshima		1		1	1			1	1								1	2					1	9	Hiroshima	
Yamaguchi	1				3				1									1					1	7	Yamaguchi	
Tokushima						1			1														1	3	Tokushima	
Kagawa	1					1	1					1	1			1									6	Kagawa
Ehime			1		1							1		1	1		1				3				9	Ehime
Kochi	1			1	1	1								1					1					6	Kochi	
Fukuoka	1	1		1	2	1	2	2	1	1				1		1		1					3	18	Fukuoka	
Saga																1								1	Saga	
Nagasaki		1	1				1					1						1						5	Nagasaki	
Kumamoto	1	1	1				2	1		1					1		1			1				10	Kumamoto	
Oita	3					1	3			1						1	1	2		1	1			14	Oita	
Miyazaki	1			1	1	1	1	1									1		1					8	Miyazaki	
Kagoshima	2					1							1			1		1						6	Kagoshima	
Okinawa		1			1	1	1		1	1		1				1	1		2	1	2			14	Okinawa	
total	42	28	32	29	34	32	31	27	32	32	22	26	37	18	13	23	26	12	19	20	14	15	13	577	total	

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

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